





CATALOGUE

2007-2009

PRODUCTS AND SYSTEMS
FOR ELECTRICAL INSTALLATIONS
AND INFORMATION NETWORKS

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

PRODUCTS AND SYSTEMS FOR ELECTRICAL INSTALLATIONS AND INFORMATION NETWORKS

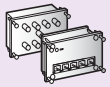
legrand

RESIDENTIAL

Home networks and door entry


P. 18 Audio kits


P. 18 Audio modules, speakers and controls


P. 19 Video, data and telephone modules

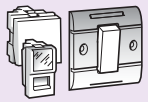

P. 19 Power supplies


P. 20 Audio door entry kits

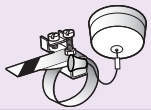

P. 20 Video door entry kits

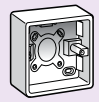
Wiring accessories

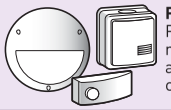

P. 30 Synergy wiring accessories


P. 86 Mosaic 3 piece and Mosaic 2 piece

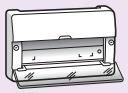

P. 102 Tenby white and other accessories

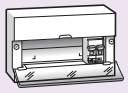

P. 108 Ceiling switches, Rapid clamps and service items

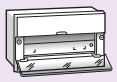

P. 112 Back boxes


P. 115 Plexo 66 and 55 ranges, lighting and Salsa chimes

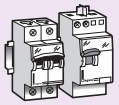
Home circuit protection

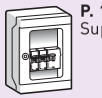

P. 128 Insulated surface mounting consumer units


P. 129 Metal surface mounting consumer units


P. 129 Metal flush mounting consumer units

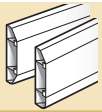

P. 129 Insulated and metal consumer unit accessories

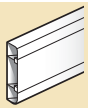

P. 130 Consumer unit protection devices

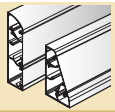

P. 133 Supply units

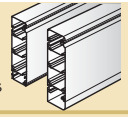
COMMERCIAL

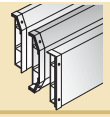
Cable management perimeter systems


P. 142 DLP PVC-U dado and skirting trunking systems


P. 142 DLP PVC-U universal trunking systems

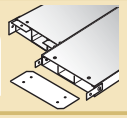

P. 150 Rolfe King 200 Series aluminium trunking systems


P. 158 Rolfe King 100 Series aluminium trunking systems

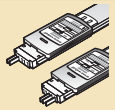

P. 162 Steel perimeter trunking systems


P. 162 Steel perimeter bench trunking systems

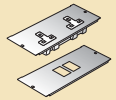
Cable management floor systems


P. 186 Commercial floor trunking systems


P. 190 Industrial floor trunking systems


P. 194 Arena-Walsall power track systems


P. 200 Floor boxes

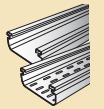

P. 202 Sockets and plates

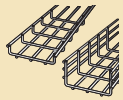

P. 204 Grommets

Cable management ceiling systems

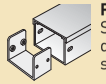

P. 216 Swifts cable ladder systems


P. 242 Swifts steel cable tray systems

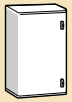

P. 256 Swifts PVC-U cable tray


P. 270 Swifts SW steel wire cable tray


P. 289 Swiftrack channel support systems

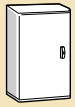

P. 307 Salamandre distribution systems

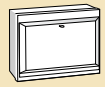
Power distribution and protection


P. 323 Panel boards


P. 326 DPX MCCBs

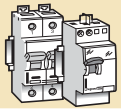

P. 332 Control and signalling auxiliaries for all DPX


P. 346 Type B distribution boards

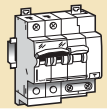

P. 350 Type A distribution boards


P. 350 Plexo boxes and terminal shield boxes with rail

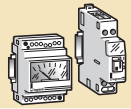
Isolation, protection, control and signalling

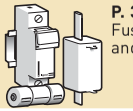

P. 356 Isolating switches, changeover switches and DX RCDs


P. 358 DX-H and DX-D MCBs


P. 359 DX RCBOs


P. 365 Rex time switches


P. 375 Power contactors and measuring electrical energy


P. 381 Fuse carriers and fuses

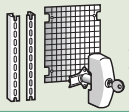
INDUSTRIAL

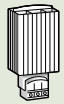
Enclosures and equipment

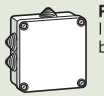

P. 392 Atlantic steel enclosures


P. 396 Atlantic stainless steel enclosures


P. 398 Marina GRP enclosures


P. 401 Equipment and locking accessories

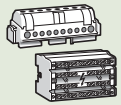

P. 405 Enclosure ventilation and heating

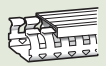

P. 409 Industrial boxes

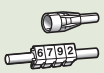
Power control, connection and cabling accessories


P. 416 Power supplies and transformers


P. 426 Viking 3 terminal blocks

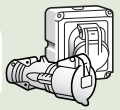

P. 440 Distribution blocks


P. 444 Transcab and Lina 25 cable ducting

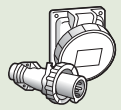

P. 447 Starfix ferrules and CAB 3 marking system


P. 452 Colring and Colson cable ties

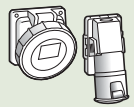
Industrial plugs, sockets and combined units


P. 456 Hypra plugs and sockets IP 44


P. 458 Hypra Prisinter plugs and sockets IP 44/55


P. 460 Hypra plugs and sockets IP 66/67-55 IP 66/67


P. 469 Hypra combined units


P. 475 P17 Tempra plugs and sockets IP 44 IP 66/67


P. 482 P17 Tempra combined units

Catalogue number index P. 487

Index of protection IP-IK P. 504

member of voltimum .co.uk



New products
Wiring accessories
The evolution continues...

The darker side of Synergy... matt black and black nickel,
plus two new Mosaic finishes and the return of theTenby White range



See page 22

legrand



New products
Swifts® SW
strength, speed and flexibilty

Building on the success of the market-leading Swifts name,
Swifts SW steel wire cable tray is a brand new addition to the family



See page 268

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



New products
Bespoke solutions
Tailor-made

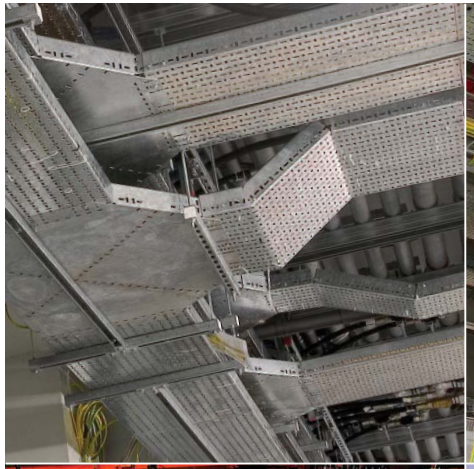
In addition to the vast selection of products in the catalogue, Legrand also offers tailor-made solutions for the most demanding installations

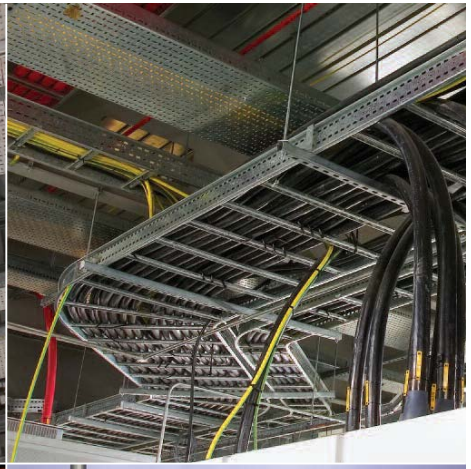






Can't find exactly what you want?
Call us to discuss your requirements









Call us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

alphabetical list

A

Access control
audio door entry kits 20
door bells, bell pushes and transformers 123
Mosaic 92
two wire door entry kits 20
video door entry kits - B/W 20
video door entry kits - colour 20

AlphaRex time switches 365

Aluminium trunking systems
Rolfe King system 205 158
Rolfe King system 255 159
Rolfe King system 280 160
Rolfe King system 206 161
Rolfe King system 205, 206, 255 and 280 accessories 161
Rolfe King system 155 164
Rolfe King system 180 165
Rolfe King system 155 and 180 accessories 166

American standard socket outlet 86

Ammeters 377

Analogue voltmeter 377

Architrave switches 106

Arena-Walsall power track system
clean earth 195
dual circuit 196
standard 194
three phase 197

AstroRex light control time switches 372

Atlantic enclosures
Atlantic stainless steel 396
Atlantic steel 392

Audio modules (home networks) 18

Audio door entry kits 20

Australian standard socket outlet 86

B

Back boxes
metalclad surface mounting 75
metal surface mounting 112
moulded flush mounting 113
moulded surface mounting 112
steel flush mounting 113

Bathroom lighting
mirror light 118
shaver lights 118

Bells
bells with cover 123
bell pushes 123
bells and buzzers 363

Blade type cartridge fuses
neutral blades 385
Type gG (IEC)/gL (VDE) 385
Type aM (motor rated) 385

Blanking plates
Mosaic 94
Synergy metalclad..... 74
Synergy modern..... 54
Synergy nickel 54
Synergy rope edge..... 60
Synergy traditional..... 70
Synergy white 42
Tenby white..... 105

Boxes
for Mosaic 3 piece 95
industrial boxes 409
junction boxes 108
metalclad surface mounting 75
moulded flush mounting 113
Plexo boxes IP 55 - IK 08 350
steel flush mounting 113
surface mounting metal..... 112
surface mounting moulded 112
terminal shield boxes IP 30 - IK 05 350

Bulkhead lighting
oval bulkhead lights 119
round bulkhead lights 119

C

CAB 3 cable markers 437

Cable ducting
Lina 25 445
Transcab 444

Cable ladder systems
ancillary items 221
covers - closed 223
covers - ventilated 223
extra heavy duty (Emerald) 219
fasteners 224
general purpose (Topaz) 217
heavy duty (Sapphire) 218
light duty (Opal) 216
selection chart 212
supports 220

Cable management systems
Arena-Walsall power track 194
cavity floor boxes 200
cavity floor grommets 204
ceiling systems 212
chequer plate floor trunking 190
commercial floor trunking 186
DLP PVC-U trunking 140
floor systems 186
flush floor trunking 186
flush lid floor trunking 189
industrial floor trunking 190
perimeter systems 140
power track 194
recessed lid floor trunking 189
Rolfe King aluminium trunking ... 156
Salamandre distribution trunking 304
service outlet boxes 200
shallow flush floor trunking 187
steel perimeter trunking 168
Swiftrack channel support system 289
Swifts cable ladder systems 212
Swifts cable tray systems 238
Swifts SW steel wire cable tray 268
Swifts PVC-U cable tray systems 254
underfloor duct 188

Cable marking systems
CAB 3 ..... 437, 450

Cable outlets
Synergy metalclad 73
Synergy modern 52
Synergy rope edge 59
Synergy traditional 68
Synergy white 40
Tenby white 105

Cable ties
Colring 452
Colson 452

Cable tray systems (PVC-U)
50 mm depth tray 256
75 mm depth tray 257
100 mm depth tray 258
accessories 259
data tray 260
loading graphs 248
selection chart 254
supports 259
telex rail 260

Cable tray systems (steel)
ancillary items 246
fastenings 247
loading graphs 248
MRF general purpose 243
selection chart 238
SRF heavy duty 244
SS light duty 242
supports 245

Cable tray systems SW (steel wire)
ancillary items 271, 276
couplers 272
electromagnetic compatibility ... 279
fixings 272
installation guide 280
loading graphs 277
loading information 278
profile brackets 274
protection against corrosion 277
selection chart 268
standard brackets 275
supports 273
tray lengths 270

Cartridge fuses 383

Cavity floor service outlet boxes
contractor floor box 200
metal trim boxes 201
modular box 201
moulded trim boxes 200
RCD modular boxes 200
standard boxes 200

Ceiling accessories
ceiling rose and halo 121
energy-saving pendant set 122
safety batten lampholders..... 122
safety lampholders..... 122
safety lampholders and tails 122
safety pendant sets 122
standard batten lampholders 121
standard lampholders 121
standard lampholders and tails..... 121
standard pendant sets 121

Ceiling switches
extra low voltage 108
mains voltage – white 108
50 A DP 108

Channel support system
accessories 295
cantilever arms 296
channel nuts 289
channels 289
clamps 295
fastenings 297
fixings 297
framework brackets 292
typical applications 290

Chimes (Salsa)
2 note electromechanical chimes 123

Clipper switches 106

Colour image digital video door entry kit 20

Colring cable ties and tool 452

Colson cable ties and tool 452

Cooker control units
Synergy traditional 68
Synergy white 40
Tenby white 105

Combined units
Hypra 469
P17 tempra 482

Commercial floor trunking systems
flush floor trunking 186
shallow flush floor trunking 187
flush lid floor trunking 189
recessed lid floor trunking 189
underfloor duct 188

Computer modules (home networks) 18

Consumer units
accessories 129
contactors 130
finishing accessories.....129
fuse carriers and fuses 130
insulated surface mounting units..... 128
MCBs 130
isolating switches 130
metal flush mounting 129
metal surface mounting units 129
RCBOs 130
RCDs 130
spare fuses 130
transformers 130

Contactors 130, 375

Contractor floor box 200

Control switches and push buttons 363

Cover plates (Mosaic) 95, 99

Crimping tools (Starfix) 447

Current transformers 377

Cylindrical cartridge fuses
cylindrical miniature 5 x 20..... 383
cylindrical type gG..... 383
cylindrical type gG industrial..... 383

D

Data sockets
Mosaic 3 piece 88
Synergy metalclad 74
Synergy modern 53
Synergy rope edge 60
Synergy traditional 69
Synergy white 41
Tenby white 105

Data modules (home networks) 19

Decorative bulkhead lighting
oval bulkhead lighting 119
round bulkhead lighting 119

Digital frequency meter 377

Digital video door entry kits 20

Digital voltmeter..... 377

Dimmer units
Mosaic 3 piece 90
Synergy modern 47
Synergy rope edge 56
Synergy traditional 63
Synergy white 37
Tenby white 103

Distribution blocks
busbars and supports 443
clips 443
connectors 443
copper connector bars 443
distribution blocks 442
distribution terminal blocks 440
extra-flat distribution blocks 442
insulated supports 443
modular style distribution blocks..... 441
stepped distribution blocks 442

Distribution terminal blocks
fully shrouded 440
partly shrouded 440
supports 440
unshrouded 440

Distribution boards
type A boards 350
type B accessories 349
type B boards selection chart ... 346
type B flexible boards 348
type B standard boards 348

Distribution terminal blocks 440

Distribution trunking
lighting trunking 316
standard trunking 307

DLP PVC-U trunking systems
dado – 195 x 50..... 142
selection chart 140
skirting – 150 x 50 143
skirting – 195 x 50 144
skirting – 240 x 50 145
universal – 105 x 35..... 146
universal – 105 x 50..... 147
universal – 150 x 50..... 148
universal – 195 x 50..... 149, 150
universal – 195 x 65..... 151
universal – 240 x 50..... 152
universal – 240 x 65..... 153

Door bells, bells pushes and chimes
2 note electromechanical chimes 123
bells with cover 123
surface mounting bell pushes ... 123
safety isolating transformer 123

Door entry kits
audio door entry kits 20
digital door entry kits 20
digital video door entry kits with memory 20
installation diagrams 21
two wire audio door entry kits 20
two wire video door entry kits 20
video door entry kits - B/W 20
video door entry kits - colour 21

Double pole socket outlets
Mosaic 98
Synergy modern 48
Synergy rope edge 57
Synergy traditional 64
Synergy white 37
Tenby white 103

Double pole switches
Synergy white 40
Synergy modern 52
Synergy rope edge 59
Synergy traditional 67
Mosaic 97
Tenby white 104

DPX (MCCBs)
DPX 125 328
DPX 250 ER 329
DPX 250 330
DPX 630 331
DPX 1 250 332
auxiliaries and motors 332
selection chart 326

DX (MCBs) 356

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

E

Earth clamps 109

Enclosures
- air conditioning 405
- Atlantic stainless steel 396
- Atlantic steel 392
- equipment for Atlantic and Marina 401
- heating 408
- industrial boxes 409
- locking accessories 404
- Marina..... 398
- selection chart 390

Energy-saving pendant sets 122

F

Ferrules 447

Floor boxes
- moulded trim boxes 200
- power sockets and plates 202
- steel trim boxes 201

Floor grommets 204

Floor trunking systems
- flush floor trunking 186
- shallow flush floor trunking 187
- flush lid floor trunking 189
- recessed lid floor trunking 189
- underfloor duct 188
- chequer plate floor trunking 190

Flush-mounting boxes 113

Franco-German standard plug 108

Free standing enclosures (Marina)
- accessories 400
- equipment 400
- Lina 25 rails 400
- Marina GRP 400
- sectioned uprights 400

French standard socket outlet 86

Fuse carriers (Legrand Lexic)
- accessories..... 382
- modular 381
- SP for HRC cylindrical fuses 381

Fused connection units
- Synergy metalclad 73
- Synergy modern 51
- Synergy rope edge 58
- Synergy traditional 67
- Synergy white 39
- Tenby white 104

Fuses
- accessories 386
- blade type cartridge fuses 385
- cylindrical cartridge fuses 383

G

Garage / outbuilding supply unit 133

German standard socket outlet 86

Greek standard socket outlet 86

Grid system
- Mosaic 82
- Synergy 80

H

Home networks
- audio modules 18
- complete kits 18
- controls 18
- complete kits 18
- installation tools 19
- module diagrams 19
- power supplies 19
- speakers 18
- video modules 19

Hour counters 378

Hypra combined units
- IP 44 units 469
- IP 66/67 units 470
- IP 66/67-55 units 470
- undrilled empty boxes 470

Hypra industrial plugs and sockets
- IP 44 appliance inlets 456
- IP 44 plugs 456
- IP 44/55 plugs 457, 458
- IP 44 sockets 456
- IP 44/55 sockets 457, 458
- IP 66/67 appliance inlets 460
- IP 66/67 plugs 460
- IP 66/67 sockets 460
- IP 66/67-55 appliance inlets 460
- IP 66/67-55 plugs 460
- IP 66/67-55 sockets 460
- IP 44/55 Prisinter mobile sockets 457
- IP 44/55 Prisinter sockets 457

I

Indicators 363

Industrial boxes
- PC range 411
- PP range 411
- PS range 410
- PVC range 413

Industrial floor trunking 190

Industrial plugs and sockets
- Hypra appliance inlets 456, 460
- Hypra plugs 456, 460
- Hypra Prisinter mobile sockets 457
- Hypra Prisinter sockets 457
- Hypra sockets 456, 457, 460
- P17 Tempra appliance inlets 475
- P17 Tempra plugs 475
- P17 Tempra sockets 475

International standard plugs 108

International standard socket outlets 86

IP table 504

Isolation and protection
- changeover switches 356
- DX RCDs 357
- DX MCBs 358
- DX RCBOs 359
- DX add-on modules 359
- DX auxiliaries 359
- isolating switches 356
- MCB tripping curves 361
- MCB discrimination tables 362

Isolating switches
- DX-IS 356
- Legrand Lexic 356

Isolator switches
- Synergy modern 47
- Synergy rope edge 56
- Synergy traditional 63
- Synergy white 36
- Tenby white 103

Italian standard plug 108

Italian standard socket outlets 86

J

Junction boxes 108

K

Key operated switches
- Mosaic 86
- Synergy white 36

L

Lampholders
- safety batten lampholders..... 122
- safety lampholders..... 122
- safety lampholders and tails 122
- standard batten lampholders 121
- standard lampholders 121
- standard lampholders and tails . 121

Legrand Lexic devices
- bell transformers 363
- buzzers..... 363
- changeover switches..... 356
- discrimination / selectivity tables..... 362
- DX RCDs 357
- indicators 363
- isolating switches 356
- push buttons and control switches 363
- safety transformers 363

Light control switches
- AstroRex 372
- Microlux 374

Lighting and accessories
- bathroom 118
- ceiling rose 121
- decorative bulkheads 119
- lampholders 121
- mirror light 118
- pendant sets 121
- safety lampholders 122
- safety pendant sets 122
- shaverlight 118
- shaverlight energy-saving 118
- weatherproof bulkheads 120

Lina 25 cable ducting 445

M

Marina GRP enclosures
- free standing 398
- wall mounting 400

Marking systems
- for cables 437, 450
- for Viking terminal blocks 437, 450

MaxiRex time switches
- digital 369
- analogue..... 371

MCBs
- Legrand Lexic 356
- residential 130

MCCBs
- DPX 125 328
- DPX 250 ER 329
- DPX 250 330
- DPX 630 331
- DPX 1 250 332
- DPX auxiliaries and motors 332
- DPX selection chart 326

Meters..... 378

Metal trim boxes 201

MicroRex time switches
- analogue 368
- digital 370

Mobile P17 Tempra combined units 482

Mobile sockets 457, 475

Modular box..... 201

Mosaic 2 piece
- 45 A switches 97
- cover plates 99
- laser etched rocker covers 97
- shaver socket 97
- sockets 98
- spur units 97
- switches 97
- triple pole fan switch 97

Mosaic 3 piece
- access control 91
- adaptors 94
- audio sockets 87
- automatic switches 91
- back boxes 95
- boxes, supports and frames selection chart..... 93
- control units 92
- cover plates 95
- dimmers 90
- floor cover plates 94
- home entertainment 87
- indication 89
- insulated boxes 94
- international standard sockets 86
- key operated switches 86
- panel mounting frames 94
- plates 95
- push buttons 86
- RCBOs 89
- RJ45 socket outlets 88
- sockets 86
- switches 86
- support frames 94
- telephone sockets 88
- time delay switch 91
- thermostats 91
- VDI 88
- video sockets 88
- visual and audible indication 89

Multimedia
- home network kits 18
- VDI sockets 88

N

Nylbloc terminal blocks 110

P

P17 Tempra combined units
- self-assembly 483
- surface mounting 482

P17 Tempra industrial plugs and sockets
- IP 44 appliance inlets 475
- IP 44 plugs 475
- IP 44 sockets 475

Panel boards
- panel board accessories 324
- triple pole panel boards 323

Panel mounting sockets
- Hypra 456, 460
- P17 Tempra 475
- Tenby 107

Pendant sets
- energy-saving pendant set 122
- safety pendant sets 122
- standard pendant sets 121

Perimeter trunking systems
- DLP PVC-U trunking 142
- Rolfe King aluminium trunking 158
- steel perimeter trunking 168

Pilot lights
- Mosaic 89
- Plexo 55 117

Plastic boxes (Plexo)
IP 55 - IK 08 350

Plexo 55
- auxiliary photo-electric cell 117
- conduit and entry glands 117
- empty box 117
- key operated switches 117
- lamps 117
- modular back box..... 116
- modular support frames 116
- mushroom head push buttons .. 117
- panel mounting bezel 116
- photo-electric switch and cell ... 117
- pilot light 117
- push buttons 116
- socket outlets 116
- switches 116
- time lag switch 116

Plexo 66
- fused spur unit 115
- M20 cable gland 115
- Mosaic adaptors 115
- push buttons 115
- socket outlets 115
- switches 115

Plexo boxes
- industrial boxes 409
- IP 55 - IK 08 350

Plugs and sockets
- Hypra industrial 456
- P17 Tempra industrial 475,482

Power contactors 375

Power supplies
- filtered 416
- for home networks 19
- non-filtered 416

Power track
- clean earth 195
- dual circuit 196
- standard 194
- three phase 197

Prisinter (Hypra) 457

Push buttons (Legrand Lexic) 363

PVC-U cable tray systems
- 50 mm depth tray 256
- 75 mm depth tray 257
- 100 mm depth tray 258
- accessories 259
- data tray 260
- selection chart 254
- supports 259

R

Rapid clamps 109

RCBO socket outlet
- Plexo 66 72

RCD sockets
- Synergy metalclad 72
- Synergy modern 49
- Synergy rope edge 57
- Synergy traditional 65
- Synergy white 38

Rex control switches
- AlphaRex digital time switch 365
- AstroRex light control switches 372

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rex control switches (continued)
EconoRex time switch ... 371
MaxiRex analogue time switches ... 371
MaxiRex digital time switches ... 369
MicroRex analogue time switches ... 370
MicroRex digital time switches ... 368

RJ 45 category 5e and 6 ... 88

Rolfe King aluminium trunking
System 205 ... 158
System 255 ... 159
System 280 ... 160
System 206 ... 161
System 205, 206, 255 and 280 accessories ... 161
System 155 ... 164
System 180 ... 165
System 155 and 180 accessories ... 166

S

Salamandre distribution trunking
accessories ... 310
fittings ... 308
lighting trunking ... 316
lighting trunking fittings ... 316
order information ... 306
standard trunking ... 307

Salsa chimes
2 note electromechanical chimes ... 123

Saxonguard RCD spur unit ... 106

Screwless terminal blocks ... 110

Selection charts
Atlantic enclosures ... 390
cable ladder ... 3–7
cable tray ... 238
channel support brackets ... 292
channel support fixings ... 297
distribution trunking ... 304
DLP trunking systems ... 140
DPX MCCBs ... 326
enclosures ... 390
floor box sockets and plates ... 202
Hypra sockets IP 44 ... 456
Hypra sockets IP 44/55 ... 457
Marina enclosures ... 390
MCCBs ... 326
Mosaic 3 piece boxes, supports and frames ... 93
P17 Tempra ... 475
P17 Tempra combined units ... 482
PVC-U tray ... 254
Rolfe King aluminium trunking ... 156
Salamandre distribution trunking ... 304
service outlet sockets and plates ... 203
steel perimeter trunking ... 168
steel wire cable tray ... 268
Swiftrack channel support ... 292
Swiftrack channel support fixings ... 297
Swifts cable ladder ... 212
Swifts cable tray ... 238
Swifts PVC-U tray ... 254
Swifts SW steel wire cable tray ... 268
Synergy functions ... 30
Synergy standard engravings ... 44
Synergy grid modules ... 78
Synergy grid system ... 80
Type B distribution boards ... 346
Viking 3 terminal blocks ... 426

Selector switches ... 377

Shaver light
energy-saving IP 44 ... 118
shaver light IP 24 ... 118

Shaver sockets
Mosaic ... 97
Synergy white ... 39
Synergy modern ... 50
Synergy rope edge ... 58
Synergy traditional ... 66
Tenby white ... 104

Single pole switches
Mosaic ... 97
Synergy metalclad ... 72
Synergy modern ... 46
Synergy rope edge ... 56
Synergy traditional ... 62
Synergy white ... 36
Tenby white ... 102

Socket outlets
Mosaic ... 98
Synergy metalclad ... 72
Synergy modern ... 49
Synergy rope edge ... 57
Synergy traditional ... 65
Synergy white ... 38
Tenby white ... 103
Tenby (other) ... 113

Starfix crimping tools and ferrules ... 447

Steel perimeter trunking
bench trunking ... 176
dado chamfer ... 172, 174
dado square ... 173, 175
pedestal units ... 176
skirting chamfer ... 170, 171

Supply units
garage / outbuilding supply units ... 133
electric shower supply units ... 133

Surface mounting boxes
Synergy metalclad ... 75
Tenby ... 112

Swifts cable ladder systems
ancillary items ... 221
covers - closed ... 223
covers - ventilated ... 223
extra heavy duty (Emerald) ... 219
fasteners ... 224
general purpose (Topaz) ... 217
heavy duty (Sapphire) ... 218
light duty (Opal) ... 216
selection chart ... 212
supports ... 220

Swifts cable management systems
cable ladder ... 216
cable tray ... 242
PVC-U cable tray ... 256
SW steel wire cable tray ... 270
Swiftrack channel support ... 289

Swifts cable tray systems
ancillary items ... 246
fastenings ... 247
MRF general purpose ... 243
selection chart ... 238
SRF heavy duty ... 244
SS light duty ... 242
supports ... 245

Swifts PVC-U cable tray systems
50 mm depth tray ... 256
75 mm depth tray ... 257
100 mm depth tray ... 258
accessories ... 259
selection chart ... 254
supports accessories ... 259

Swifts SW steel wire cable tray
ancillary items ... 271, 276
couplers ... 272
electromagnetic compatibility ... 279
fixings ... 272
loading graphs ... 277
loading information ... 278
installation guide ... 280
profile brackets ... 274
protection against corrosion ... 277
selection chart ... 268
standard brackets ... 275
supports ... 273
tray lengths ... 270

Swiftrack channel support system
accessories ... 295
cantilever arms ... 296
channel nuts ... 289
channels ... 289
clamps ... 295
fastenings ... 297
fixings ... 297
framework brackets ... 292

Switches
light control switches (AstroRex) ... 372
light control switches (Microlux) ... 374
selector switches ... 377
time switches ... 365

Synergy wiring accessories
grid modules ... 76
grid systems ... 78
metalclad ... 72
modern matt black ... 46
modern black nickel ... 46
modern nickel ... 46
modern silver ... 46
rope edge polished brass ... 56
traditional brushed steel ... 62
traditional polished steel ... 62
traditional satin brass ... 62
white ... 36
white standard engravings ... 44

T

Telephone modules (home networks) ... 19

Telephone sockets
Mosaic 3 piece ... 88
Synergy metalclad ... 74
Synergy modern ... 53
Synergy rope edge ... 60
Synergy traditional ... 69
Synergy white ... 41
Tenby white ... 105

Tempra (P17) plugs and sockets
IP 44 appliance inlets ... 475
IP 44 plugs ... 475
IP 44 sockets ... 475

Tenby
architrave switches ... 102
blanking plates ... 105
clipper switches ... 106
data socket ... 105
dimmers ... 102
other accessories ... 106
rapid clamps ... 108
service items ... 111
shaver socket ... 104
sockets ... 103, 107
switches ... 102
telephone ... 105
TV, radio and satellite ... 105

Terminal blocks (Viking 3)
accessories ... 432
heavy duty terminal blocks ... 438
heavy duty terminal blocks selection chart ... 426
terminal blocks ... 430
terminal blocks with spring connection ... 436
terminal shield boxes IP 30 - IK 05 ... 350

Terminal strips
Nylbloc ... 110

Thermostat ... 91

Time switches
AlphaRex digital ... 365
AstroRex light control switches ... 372
EconoRex analogue time switch ... 371
MaxiRex digital ... 369
MicroRex digital ... 368
MicroRex analogue ... 370
Time-lag switch ... 374
Time delay switch ... 91

Transcab cable ducting ... 444

Transformers
bell transformers ... 363
compact transformers ... 421
control transformers ... 419
current transformers ... 377
safety transformers ... 363

Trunking systems
commercial floor trunking ... 186
chequer plate floor trunking ... 190
distribution trunking ... 307
DLP PVC-U trunking ... 142
flush floor trunking ... 186
flush lid floor trunking ... 189
industrial floor trunking ... 190
lighting trunking ... 316
recessed lid floor trunking ... 189
Rolfe King aluminium trunking ... 158
shallow flush floor trunking ... 187
standard trunking ... 307
steel perimeter trunking ... 168
underfloor duct ... 188

TV, radio and satellite sockets
Mosaic 3 piece ... 87
Synergy metalclad ... 74
Synergy modern ... 53
Synergy rope edge ... 60
Synergy traditional ... 69
Synergy white ... 41
Tenby white ... 105

Two wire video door entry kit ... 20

Type A distribution boards ... 350

Type B distribution boards
flexible boards ... 348
selection chart ... 346
standard boards ... 348

U

Unswitched socket outlets
Synergy white ... 38
Synergy modern ... 49
Synergy rope edge ... 57
Synergy traditional ... 64
Tenby white ... 103
Synergy metalclad ... 72

V

VDI sockets ... 88

Video door entry kits ... 20

Video modules (home networks) ... 19

Viking 3
accessories ... 432
heavy duty terminal blocks ... 438
heavy duty terminal blocks selection chart ... 426
terminal blocks ... 430
terminal blocks with spring connection ... 436

Voltmeters ... 377

W

Wall mounting enclosures
air conditioning ... 405
Atlantic stainless steel ... 396
Atlantic steel ... 392
equipment for Atlantic and Marina GRP ... 398
industrial boxes ... 409
locking accessories ... 404

Wiring accessories
back boxes (flush mounting) ... 113
back boxes (surface mounting) ... 75
ceiling switches ... 108
international standard plugs ... 108
international standard sockets ... 86
junction boxes ... 108
lampholders ... 121
Mosaic 2 piece mechanisms ... 97
Mosaic 2 piece cover plates ... 99
Mosaic 3 piece mechanisms ... 86
Mosaic 3 piece cover plates ... 95
Nylbloc terminal strips ... 110
pendant sets ... 121
Plexo 55 weatherproof ... 116
Plexo 66 weatherproof ... 115
Synergy grid systems ... 78
Synergy metalclad ... 72
Synergy modern nickel ... 46
Synergy modern silver ... 46
Synergy rope edge polished brass ... 56
Synergy traditional brushed steel ... 62
Synergy traditional polished steel ... 62
Synergy traditional satin brass ... 62
Synergy white ... 36
Tenby architrave switches ... 102
Tenby clipper switches ... 106
Tenby rapid clamps (earth clamps) ... 109
Tenby service items ... 111
terminal strips ... 110

Y

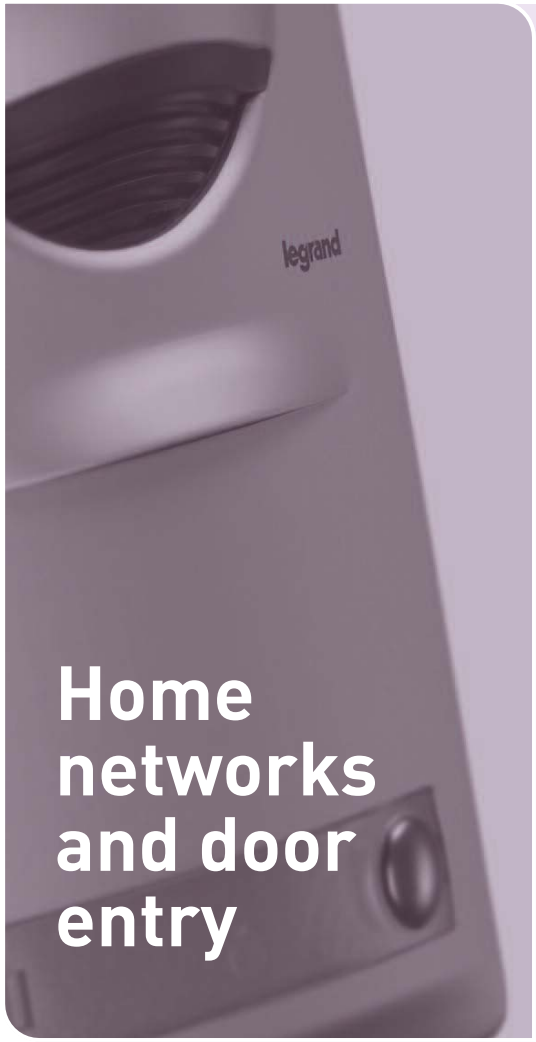
Yokes
Mosaic ... 94
Synergy grid ... 80

Conditions of sale

please consult our current price list

In accordance with its policy of continuous improvement, the Company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

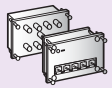


Home networks and door entry

Home networks


P. 18 Audio kits


P. 18 Audio modules, speakers and controls


P. 19 Video, data and telephone modules


P. 19 Power supplies


P. 19 Additional enclosures and accessories

Door entry kits


P. 20 Audio door entry kits


P. 20 Video door entry kits – B/W


P. 20 Video door entry kits – colour


P. 21 Installation diagrams

New in 2007



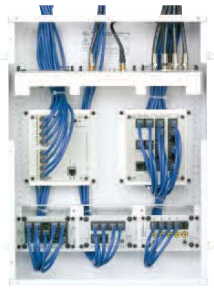
Home networks

Audio kits (p. 18)



Controls

Keypad volume controls and local input devices for home networks (p. 18)



Modules

Video, data and telephone modules for home networks (p. 19)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

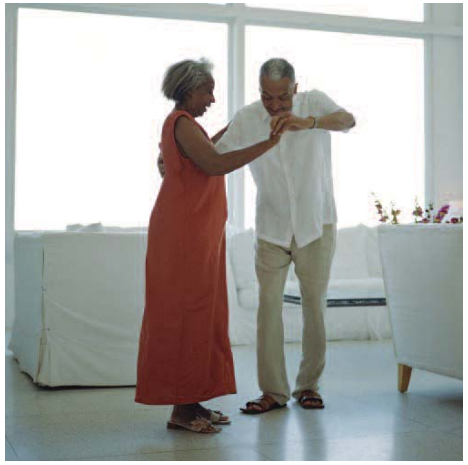
Who said technology has to be technical?

At Legrand, we believe in making people's lives easier. We don't just provide fittings and accessories, we offer a range of solutions that bring homes to life... solutions that are easy to both install and use.

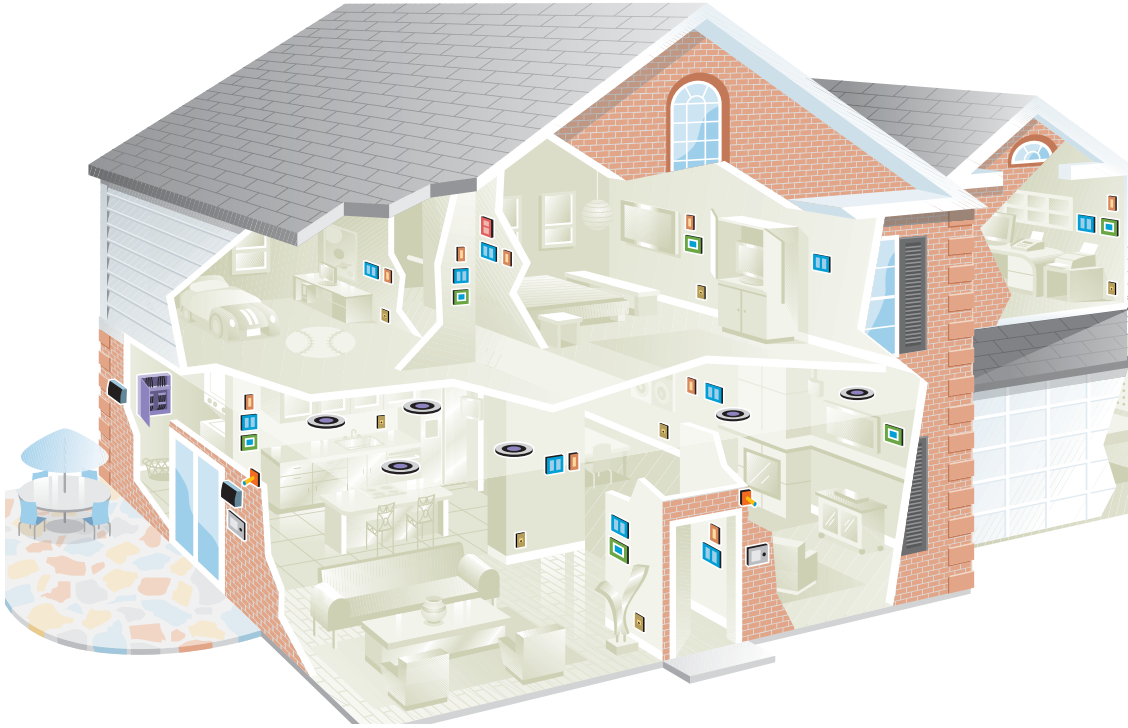
Entertainment, communication and control for today's evolving lifestyles

Think of a house as an entity... living and breathing, with information networks flowing through it like veins... feeding every room with intelligent functions and allowing them to interact for the perfect balance between entertainment, communication and control.

With Legrand home networks, users can enjoy distributed audio and video around the house as well as access to computer and telephone networks wherever needed. With this flexibility, rooms blend seamlessly into one, yet each with the capacity for independent control, allowing users to see, hear and interact with whatever they want, wherever they want.







Audio – enjoy your favourite CDs, MP3s, radio station or even the audio signal from your TV anywhere in the house. Legrand home networks will distribute sound from a central source to speakers throughout the home.

Video – whether you have Cable, Satellite or Digital TV, video modules will distribute TV, VCR, DVD and HD signals from a central point to every TV set in the home.

Computer – access high-speed internet and computer networks throughout the home. Share printers, scanners and any other connected peripherals.

Telephone – bring multiple telephone and fax lines into your home and send them anywhere you want. With a simple "plug and play" connection, it's easy to add new phone lines as and when required.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

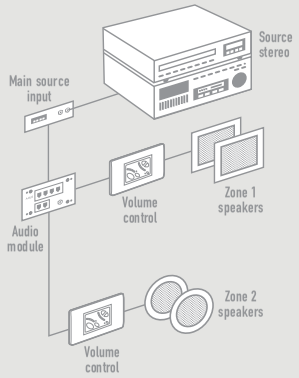
Adding value for both the installer and the end user

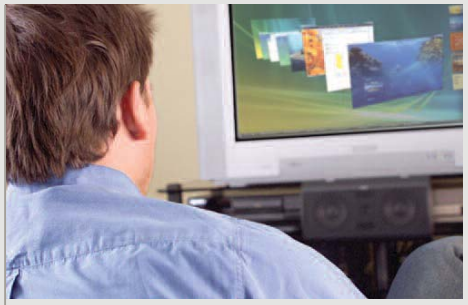
Legrand home networks adopt a simple modular approach and present home owners with flexible solutions for modern living... ensuring that homes have the foundation they need to take advantage of the home entertainment revolution and the lifestyle benefits that go along with it.



Audio modules

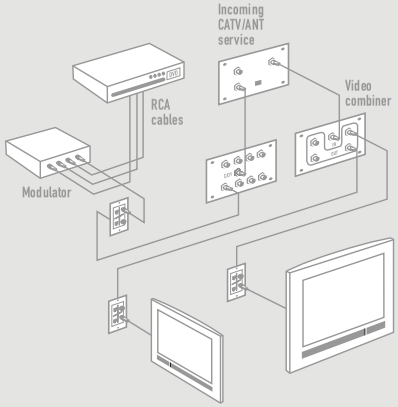
With simple wiring, Legrand's audio modules incorporate unique technology which amplifies sound at the volume control itself. Up to four zones can be controlled independently and access to the source equipment is also possible via infra-red.

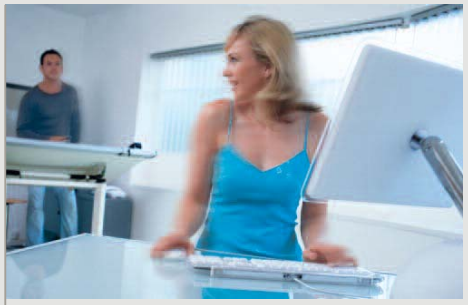




Video modules

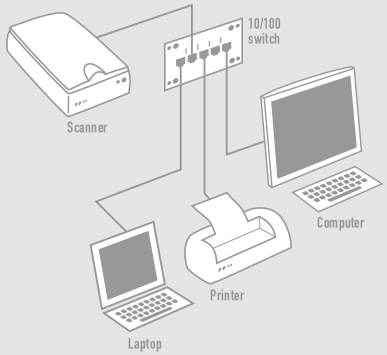
Passive four or eight way splitters / combiners enable single video signals to be shared throughout the home, whilst enhanced video amplification ensures perfect distributed image quality.





Data modules

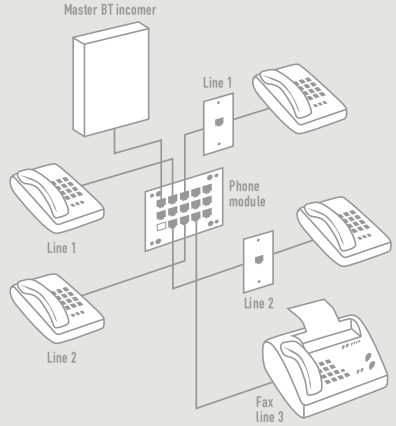
At the heart of the residential computer network is a five port 10/100 base T auto-sensing switch which connects PCs to peripheral devices such as printers or scanners. By cascading an ethernet router, high speed internet is available to four additional PCs.





Telephone modules

Connect up to four incoming telephone lines through one standard RJ45 socket. Line one is primary at eight locations, line two at two locations and lines three and four at a single location on the module. All ports match TIA 568A specification and can be easily reconfigured to meet the homeowner's needs.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



6338 39 (3 module enclosure kit)



6338 64 with 3 module Synergy carrier plate Cat. No. 7312 93

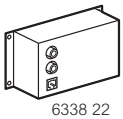


6338 68 with 3 module Synergy carrier plate Cat. No. 7312 93

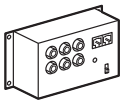
Pack	Cat. Nos.	Kits
		Kit one (standard)
		Kit components :
1	6338 01	Home network enclosure (Type 1)
1	6338 23	4 x 12 telephone module
1	6338 26	10/100 Base-T autosensing switch
1	6338 28	1 x 8 passive video splitter/combiner
		Kit two (intermediate)
		Kit components :
1	6338 01	Home network enclosure (Type 1)
1	6338 21	Single source, 4 zone audio module
1	6338 22	RCA - single source input
		Advanced audio modules
1	6338 21	Single source, 4 zone audio module
1	6338 22	RCA - single source input
1	6338 48	RCA - triple source input
1	6338 53	4 source, 8 zone audio module
		Speakers
1	6338 43	6·5 inch in-ceiling round speaker (pair)
1	6338 44	Dual voice coil speaker
1	6338 45	Outdoor speaker
		Controls
1	6338 46	Dual IR emitter
1	6338 47	Universal IR target
1	6338 50	Remote control
1	6338 63(1)	Keypad volume control - Mosaic white
1	6338 64(1)	Keypad volume control - Synergy anthracite
1	6338 65(1)	Keypad volume control - Synergy white
1	6338 66(1)	Local input device - Synergy white
1	6338 67(1)	Local input device - Mosaic white
1	6338 68(1)	Local input device - Synergy anthracite



6338 01



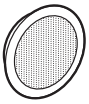
6338 22



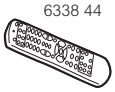
6338 48



6338 53



6338 44



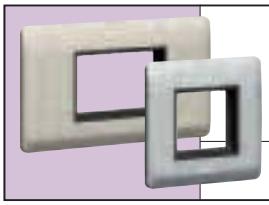
6338 50



6338 65



6338 66



For Synergy module plates

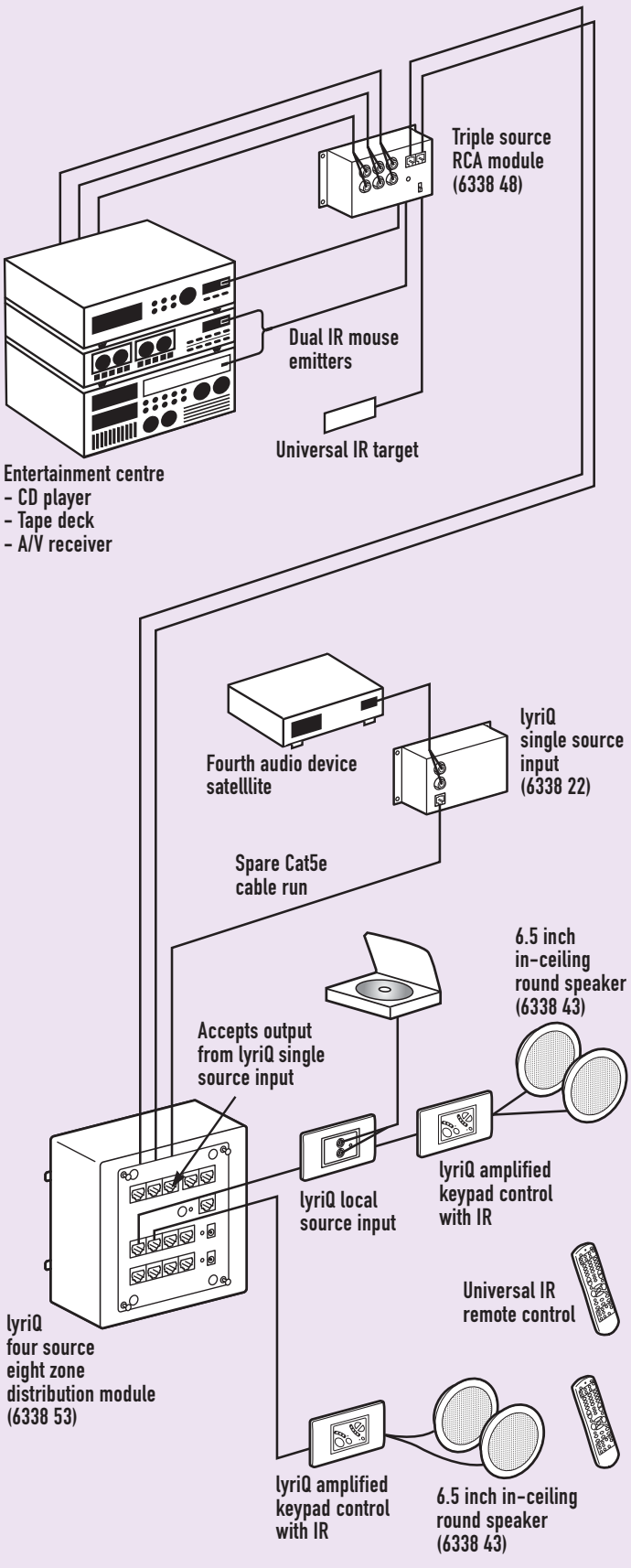
see p. 82

(1) For use with 3 module Synergy carrier plate

home networks
an introduction to structured wiring

■ Audio

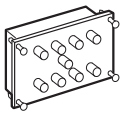
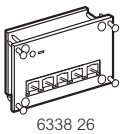
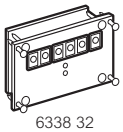
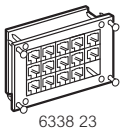
The simple wiring structure combined with unique technology amplifies sound at the volume control itself. Four audio sources can supply up to eight master zones, each being controlled independently. Access to the source audio equipment via infra-red is also possible



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



6338 02 (12 module enclosure - modules not included)

Pack	Cat. Nos.		
		Video modules	
1	6338 27	1 x 4 bi-directional passive combiner	
1	6338 28	1 x 8 passive video splitter/combiner	 6338 28
1	6338 29	2 x 2 enhanced video amplification	
1	6338 30	1 x 4 LNB satellite diplexer	
1	6338 31	Cat5e camera module	
1	6339 93	TV over RJ45 Hybrid Scenario 3	
1	0516 93	RJ45 - IEC patch cord for TV	
		Data modules	
1	6338 24	Ethernet router 8 port 10/100 switch	 6338 26
1	6338 26	10/100 Base-T autosensing switch	
1	6338 33	Cascade cable	
		Power supplies	
1	6338 32	Power distribution module	 6338 32
1	6338 40	15 V DC power supply (multi-voltage)	
1	6338 41	24 V DC power supply (audio module)	
		Telephone module	
1	6338 23	4 x 12 telephone module	 6338 23
		Additional enclosures	
1	6338 01	Home network enclosure (Type 1) Max 3 modules	 6338 01
1	6338 02	Home network enclosure (Type 2) Max 12 modules	
		Accessories	
1	6338 72	2 module mounting bracket	
1	6338 73	3 module mounting bracket	
1	6338 81	11 module wing bracket	
1	6339 91	4 way RJ45 patch Cat5	
1	6339 92	4 way RJ45 patch Cat6	
		Installation tools	
1	6338 99	EZ crimp tool	
10	6338 51	EZ RJ45 connectors	



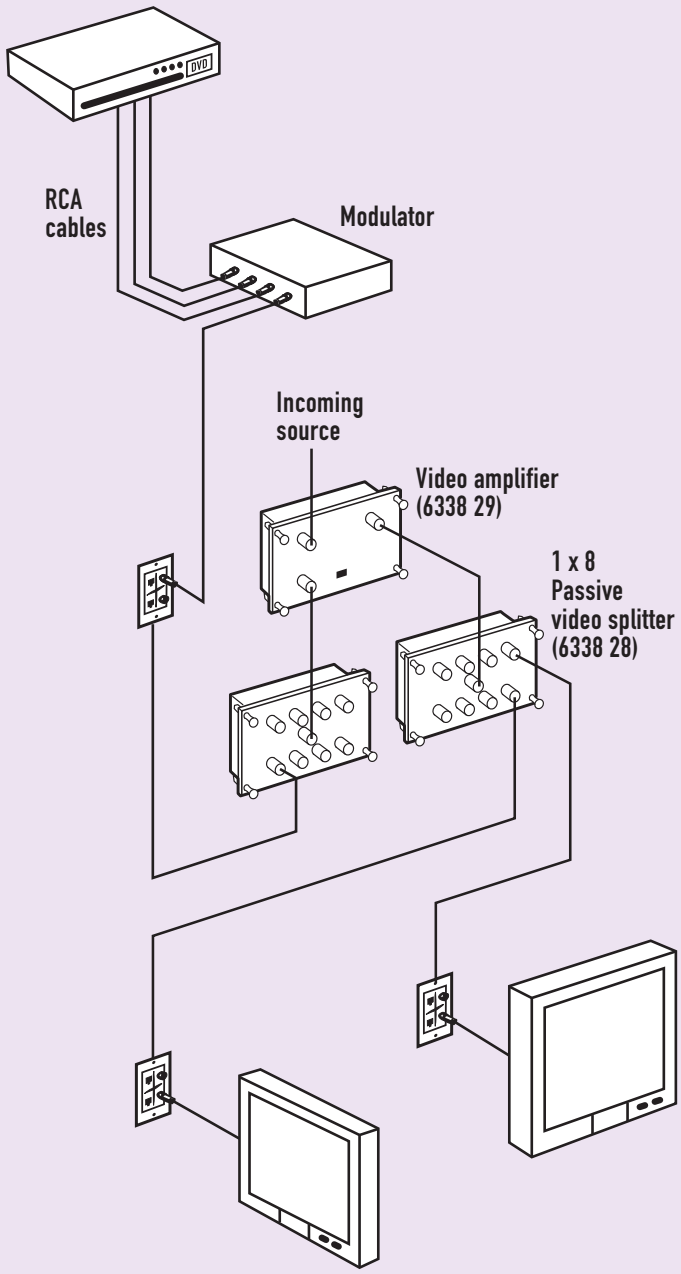
For Mosaic VDI accessories

see p. 87-88

home networks
an introduction to structured wiring (continued)

■ Video sharing

Passive four or eight way splitters/combiners enable single video signals to be shared throughout the home. Enhanced video amplification ensures perfect picture quality wherever the satellite or incoming signals are presented. Internally generated signals can be modulated to any of the common outlets



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

door entry kits
with extra-slim entrance panel









Pack	Cat. Nos.	Audio door entry kits IP 54
		Composition : • Extra-slim entrance panel • Handsets (electronic call tone) • Audio control interface • Door release not included in the kit
		Audio kit for :
1	3757 10	1 apartment
1	3757 20	2 apartments
1	3757 30	3 apartments
1	3757 40	4 apartments
1	3757 60	6 apartments
		Additional handset with electronic call tone The system can accept up to 4 handsets in parallel on the same call button
1	3742 00	Audio handset
		Door release
1	3749 00	12 V door release

		Two wire audio door entry kit IP 54
		Installation with only 2 non-polarised wires
		Composition : • Extra-slim entrance panel • Handset and power supply
		Two wire audio kit for :
1	3757 70	1 apartment
		Additional handset
1	3740 20	Audio handset

		Digital video door entry kits IP 54
		Composition : • Extra-slim entrance panel • Series 7 digital monitor - B/W • Digital video control interface • Door release
		Black and white video kit for :
1	3759 10	1 apartment
1	3759 20	2 apartments
		Additional monitor, handset and wall stand The system can accept up to 3 monitor handsets in parallel on the same call button Additional power supply Cat. No. 3750 05 is required
1	3744 20	Black and white monitor
1	3750 05	Power supply
1	3744 42	Wall stand

Pack	Cat. Nos.	Two wire video door entry kit IP 54
		Installation with only 2 non-polarised wires
		Composition : • Extra-slim entrance panel • Series 7 digital monitor - B/W • Power supply • Door release
		Two wire black and white video kit for :
1	3759 70	1 apartment

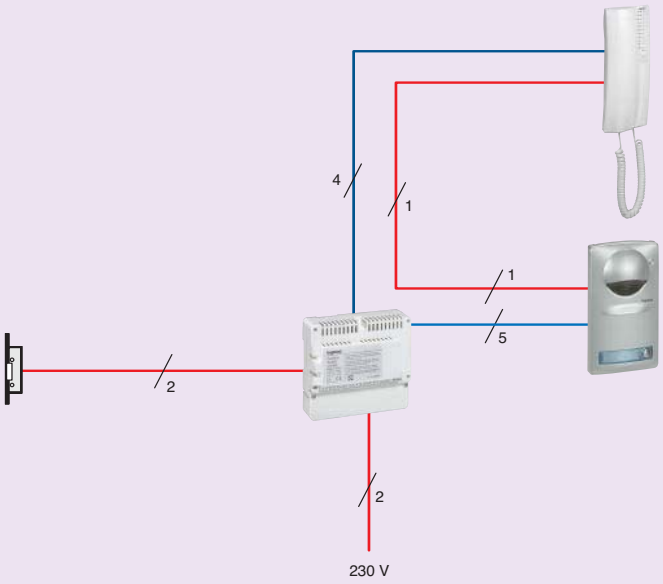
		32 image memory digital video door entry kit IP 54
		Composition : • Extra-slim entrance panel • Series 7 digital monitor - B/W • Power supply • Door release
		32 image memory black and white video kit for :
1	3759 80	1 apartment

		Colour image digital video door entry kits IP 54
		Composition : • Extra-slim entrance panel • Series 7 digital monitor - colour • Power supply • Door release
		Colour video kit for :
1	3759 17	1 apartment
1	3759 27	2 apartments
		Additional monitor and handset The system can accept up to 3 monitor handsets in parallel on the same call button Additional power supply Cat. No. 3750 05 is required
1	3744 30	Black and white monitor
1	3750 05	Power supply

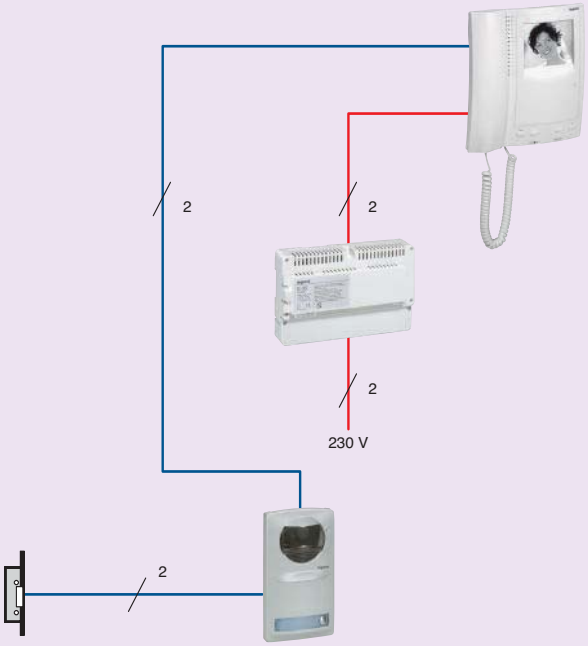
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

door entry kits
with extra-slim entrance panel

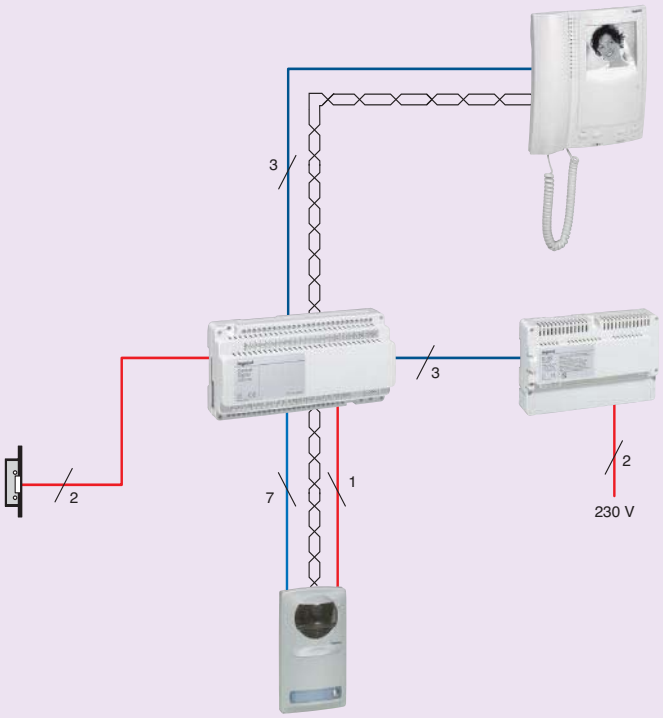
■ Analogue audio installation for 1 apartment



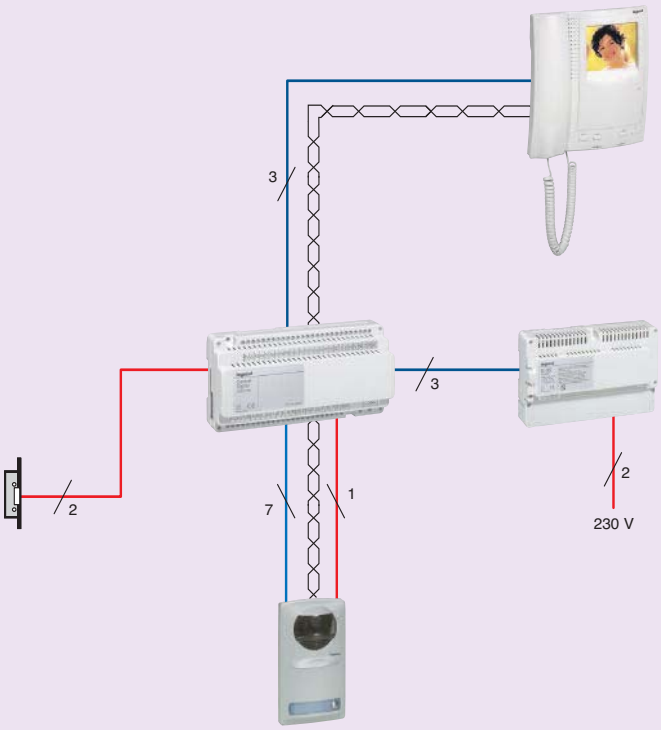
■ 2 wire (non-polarised) black and white video installation for 1 apartment



■ Digital black and white video installation for 1 apartment



■ Digital colour video installation for 1 apartment



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Wiring accessories

Synergy®


P. 30 Function selection charts


P. 36 White wiring accessories


P. 44 White engraving selection chart

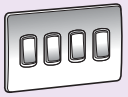

P. 46 Modern wiring accessories

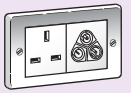

P. 56 Rope edge polished brass wiring accessories


P. 62 Traditional decorative wiring accessories

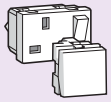

P. 72 Metalclad wiring accessories


P. 76 Grid modules


P. 80 Grid system for Synergy grid modules

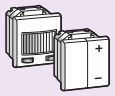

P. 82 Grid system for Mosaic grid modules

Mosaic™ 3 piece


P. 86 Switches, push-buttons, BS and international sockets


P. 87 Audio sockets and home entertainment


P. 88 VDI, visual indication and protection


P. 90 Dimmers, automatic switches and control units


P. 92 Access control units

Mosaic™ 2 piece


P. 97 Switches, spur units and shaver socket


P. 98 Sockets


P. 99 Cover plates

Tenby® white and other accessories


P. 102 Switches and dimmer units


P. 103 Sockets

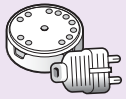

P. 104 Shaver socket, FCUs and DP switches

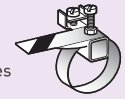

P. 105 Cooker control units and VDI


P. 106 Clipper and other accessories

Ceiling switches, Rapid clamps and service items


P. 108 Ceiling switches

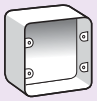

P. 108 International standard plugs and junction boxes

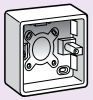

P. 109 Tenby Rapid clamps

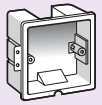

P. 110 Nylbloc terminal strips and terminal blocks

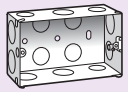

P. 111 Tenby service items

Back boxes


P. 112 Surface mounting metal

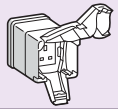

P. 112 Surface mounting moulded


P. 113 Quickfix flush mounting moulded


P. 113 Flush mounting steel

Plexo 66 Plexo 55


P. 115 Plexo 66 surface mounting weatherproof switches

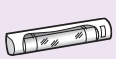

P. 115 Plexo 66 surface mounting weatherproof sockets


P. 116 Plexo 55 surface mounting weatherproof switches


P. 116 Plexo 55 surface mounting weatherproof sockets


P. 117 Plexo 55 surface mounting accessories

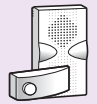
Lighting, ceiling accessories and Salsa® chimes


P. 118 Bathroom lighting


P. 119 Decorative bulkhead lighting


P. 120 Weatherproof bulkhead lighting


P. 121 Lampholders, pendant sets and ceiling rose


P. 123 Salsa chimes, bell pushes and bells

New



Synergy® white

20 AX plate switches and DP socket outlets with red rockers (p. 36 and 37)



Synergy®

400 W dimmers (p. 37, 47, 56 and 63)



Bathroom lighting

IP 44 and IP 24 (p. 118)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

[SYNERGY]

Form and function in perfect harmony

With ingenious design features that haven't been seen before, Synergy marries great looks with high quality components. The result is a diverse and complete offer of highly evolved solutions that can cater for most needs in today's demanding residential and commercial markets.

RESIDENTIAL





With the explosion of the home entertainment market, wiring devices are becoming increasingly diverse and abundant within homes.

Synergy's vast selection of functions together with a choice of styles and finishes guarantees that homes will be future-proof for years to come.

CONTROL



POWER DISTRIBUTION



MULTIMEDIA





PROTECTION



COMMERCIAL





In addition to a fully integrated grid system which is available in all of the stunning finishes, Synergy also incorporates modular faceplates that can accommodate Legrand's acclaimed Mosaic modules, providing Synergy with an even wider selection of functions available.

CONTROL



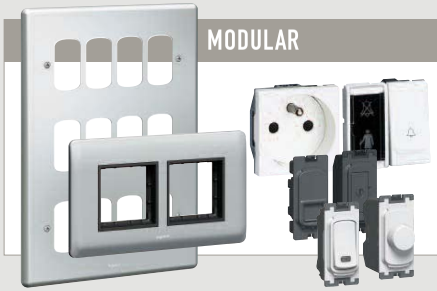
POWER DISTRIBUTION



VOICE, DATA AND IMAGES



MODULAR



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

[SYNERGY]

The specifier's dream... the installer's delight

Whatever the application, residential or commercial, Synergy offers the perfect blend of style and functionality, together with countless features that have been specially designed to make the installer's life easier.



Thoughtful design...

Synergy is the result of exhaustive research carried out over a five year development period to ensure that the needs of interior designers, installers and end users alike are not only met, they are far exceeded.

Each Synergy family can be instantly recognised by its trademark triple LED signature for location or power indication which gives a unique contemporary look.



Synergy boasts a host of functions and design elements including separated rockers and contrasting finishes that make it ideal for use within Part M regulations

To request a free copy of our Part M guide contact us on 0845 605 4333 or visit www.legrand.co.uk



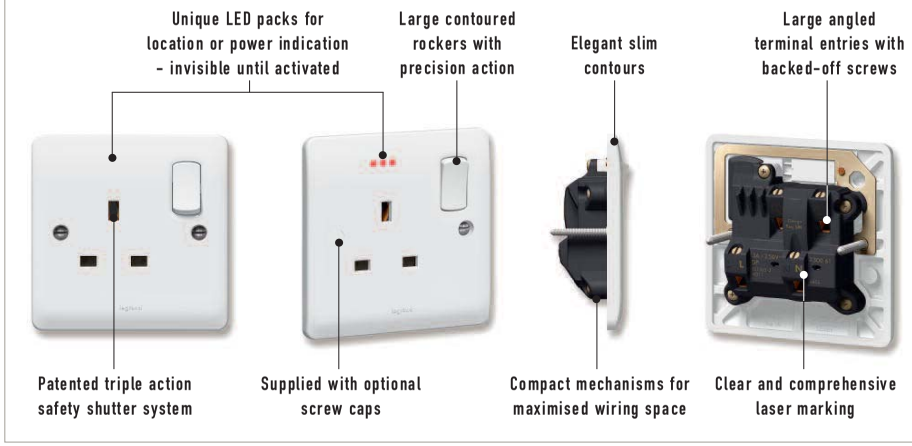


Attention to detail

Quality is reflected in everything from the components and design through to the ease of installation. This includes a complete range of compatible surface mounting back boxes, compact mechanisms that maximise wiring space, large angled screw entries and clear laser marking as standard.

In addition, all terminals are deep with an easy cable entry design and all mechanisms are supplied with backed-off screws.

QUALITY AND INNOVATION... WHICHEVER WAY YOU LOOK AT IT



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

[SYNERGY]

Styles and finishes to suit every application

Accessories need to match every conceivable decor. Not just in terms of colour, but also in terms of style. To satisfy these requirements, Synergy evolved into distinctly different forms - modern, traditional and rope edge... each of which caters for equally different themes, "warm" and "cool".

White
Clean and modern with optional screw covers and hidden LEDs



Modern silver
Blend perfectly into "cool" environments



Modern nickel
Create a "warm" contemporary living space



Rope edge polished brass
Classic style with no visible screws



Traditional satin brass
Tasteful design with slim faceplates



Traditional brushed steel
Elegant, functional solutions



Traditional polished steel
Stunning mirror finish for "cool" environments



Metalclad
A perfect "clam" type fit with their surface back boxes



THE EVOLUTION CONTINUES



Matt black

Black nickel

New finishes
New Synergy black finishes



New functions
20 AX plate switches and DP sockets with red rockers



Extended range
400 W dimmers now available

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Synergy® function selection chart

FUNCTIONS	WHITE	MODERN					ROPE EDGE		TRADITIONAL				METALCLAD	
		Silver	Nickel	Matt black		Black nickel	Polished brass		Brushed stainless steel		Polished stainless steel	Satin brass		
Switches														
10 AX switch 1 x 1 way	7300 00	7310 00	7312 00	7316 00		7314 00	7320 00		7330 00		7332 00	7334 00	7338 00	
10 AX switch 1 x 2 way	7300 01	7310 01	7312 01	7316 01		7314 01	7320 01		7330 01		7332 01	7334 01	7338 01	
10 AX switch 1 x intermediate	7300 05	7310 05	7312 05	7316 05		7314 05	7320 05		7330 05		7332 05	7334 05	7338 05	
10 AX switch 2 x 2 way	7300 02	7310 02	7312 02	7316 02		7314 02	7320 02		7330 02		7332 02	7334 02	7338 02	
10 AX switch 3 x 2 way	7300 03	7310 03	7312 03	7316 03		7314 03	7320 03		7330 03		7332 03	7334 03	7338 03	
10 AX switch 4 x 2 way	7300 04	7310 04	7312 04	7316 04		7314 04	7320 04		7330 04		7332 04	7334 04	–	
10 AX switch 6 x 2 way	7300 06	–	–	–		–	7320 06		7330 06		7332 06	7334 06	–	
20 AX switch 1 x 1 way	7301 30	–	–	–		–	7321 30		7331 30		7333 30	7335 30	–	
20 AX switch 1 x 2 way	7301 31	7311 31	7313 31	7317 31		7315 31	7321 31		7331 31		7333 31	7335 31	–	
20 AX switch 2 x 2 way	7301 32	7311 32	7313 32	7317 32		7315 32	7321 32		7331 32		7333 32	7335 32	–	
20 AX switch 3 x 2 way	7301 33	7311 33	7313 33	7317 33		7315 33	7321 33		7331 33		7333 33	7335 33	–	
10 A 1 x 2 way push switch	7300 07	7310 07	7312 07	7316 07		7314 07	7320 07		7330 07		7332 07	7334 07	–	
10 A 1 x 2 way push switch marked 'PRESS'	7300 11	–	–	–		–	–		–		–	–	–	
10 A 1 x 2 way push switch marked with bell symbol	7301 07	–	–	–		–	–		–		–	–	–	
10 AX switch - key 1 x 2 way	7300 08	–	–	–		–	–		–		–	–	–	
10 A 3 pole isolator switch	7300 09	7310 09	7312 09	7316 09		7314 09	7320 09		7330 09		7332 09	7334 09	–	
Dimmer units														
Dimmer 1 x 2 way - 400 W push on/off rotary	7300 48	–	–	–		–	–		–		–	–	–	
Dimmer 1 x 2 way LV - 250 W push on/off rotary	7300 46	7310 46	7312 46	7390 46		7391 46	7320 46		7330 46		7332 46	7334 46	–	
Dimmer 2 x 2 way LV - 250 W push on/off rotary	7300 47	7310 47	7312 47	7390 47		7391 47	7320 47		7330 47		7332 47	7334 47	–	
Dimmer - electronic 1 x 2 way - 400 W push on/off rotary	7301 56	7311 56	7313 56	7316 46		7314 46	7321 56		7331 56		7333 56	7335 56	–	
Dimmer - electronic 2 x 2 way LV - 400 W push on/off rotary	7301 57	7311 57	7313 57	7316 47		7314 47	7321 57		7331 57		7333 57	7335 57	–	
Dimmer - electronic 4 x 2 way LV - 400 W push on/off rotary	7300 49	–	–	–		–	–		–		–	–	–	
Socket outlets														
Socket 13 A switched 1 gang DP	7300 60	7310 60	7312 60	7316 60		7314 60	7320 60		7330 60		7332 60	7334 60	7338 60	
Socket 13 A switched 1 gang DP + deep plate	7301 60	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 1 gang DP with red rocker	7301 62	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 1 gang DP + indicator	7300 61	7310 61	7312 61	7316 61		7314 61	7320 61		7330 61		7332 61	7334 61	7338 61	
Socket 13 A switched 1 gang DP (clean earth)	7300 64	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 1 gang DP non-standard earth pin	7300 67	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 2 gang DP	7300 70	7310 70	7312 70	7316 70		7314 70	7320 70		7330 70		7332 70	7334 70	7338 70	
Socket 13 A switched 2 gang DP + deep plate	7301 70	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 2 gang DP with red rockers	7301 61	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 2 gang DP + indicators	7300 71	7310 71	7312 71	7316 71		7314 71	7320 71		7330 71		7332 71	7334 71	7338 71	
Socket 13 A switched 2 gang outboard DP (clean earth)	7300 74	–	–	–		–	–		7330 74		7332 74	7334 74	–	
Socket 13 A switched 2 gang DP non-standard earth pin	7300 77	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 1 gang SP	7300 66	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 1 gang SP + deep plate	7301 66	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 2 gang SP	7300 76	–	–	–		–	–		–		–	–	–	
Socket 13 A switched 2 gang SP + deep plate	7301 76	–	–	–		–	–		–		–	–	–	
Socket 13 A unswitched 1 gang	7300 65	7310 65	7312 65	7316 65		7314 65	7320 65		7330 65		7332 65	7334 65	7338 65	
Socket 13 A unswitched 2 gang	7300 75	7310 75	7312 75	7316 75		7314 75	7320 75		7330 75		7332 75	7334 75	7338 75	

See catalogue pages for full product specifications

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Synergy® function selection chart (continued)

FUNCTIONS	WHITE		MODERN						ROPE EDGE		TRADITIONAL				METALCLAD	
			Silver		Nickel	Matt black		Black nickel	Polished brass		Brushed stainless steel		Polished stainless steel	Satin brass		
RCD sockets																
RCD unit 2 gang DP 30 mA active		7300 97		7310 97	7312 97	7316 97		7314 97		7320 97		7330 97	7332 97	7334 97		7338 97
RCD unit 2 gang DP 30 mA passive		7300 98		7310 98	7312 98	7316 98		7314 98		7320 98		7330 98	7332 98	7334 98		7338 98
Socket outlets																
Socket 15 A unswitched		7300 88		7310 88	7312 88	7316 88		7314 88		7320 88		7330 88	7332 88	7334 88		7338 88
Socket 15 A switched		7300 89		7310 89	7312 89	7316 89		7314 89		7320 89		7330 89	7332 89	7334 89		7338 89
Socket 5 A unswitched		7300 68		7310 68	7312 68	7316 68		7314 68		7320 68		7330 68	7332 68	7334 68		–
Socket 5 A switched		7300 69		7310 69	7312 69	7316 69		7314 69		7320 69		7330 69	7332 69	7334 69		–
Socket 2 A unswitched		7300 59		7310 59	7312 59	7316 59		7314 59		7320 59		7330 59	7332 59	7334 59		–
Socket 16 A German 1 gang		7300 87		–	–	–		–		–		–	–	–		–
Shaver socket 240-115 V		7300 90		7310 90	7312 90	7316 90		7314 90		7320 90		7330 90	7332 90	7334 90		–
Fused connection units																
3 A FCU unswitched		7300 38		–	–	–		–		–		–	–	–		–
13 A FCU DP switched		7300 34		7310 34	7312 34	7316 34		7314 34		7320 34		7330 34	7332 34	7334 34		7338 34
13 A FCU DP switched + indicator		7300 35		7310 35	7312 35	7316 35		7314 35		7320 35		7330 35	7332 35	7334 35		7338 35
13 A FCU DP switched + cord outlet		7300 36		7310 36	7312 36	7316 36		7314 36		7320 36		7330 36	7332 36	7334 36		7338 36
13 A FCU DP switched + cord outlet marked 'WATER HEATER'		7301 39		–	–	–		–		–		–	–	–		–
13 A FCU DP switched + cord outlet + indicator		7300 37		7310 37	7312 37	7316 37		7314 37		7320 37		7330 37	7332 37	7334 37		7338 37
13 A FCU DP switched + deep plate + bottom cord outlet		7301 36		–	–	–		–		–		–	–	–		–
13 A FCU		7300 30		7310 30	7312 30	7316 30		7314 30		7320 30		7330 30	7332 30	7334 30		7338 30
13 A FCU + power indicator		7300 31		7310 31	7312 31	7316 31		7314 31		7320 31		7330 31	7332 31	7334 31		7338 31
13 A FCU + cord outlet		7300 32		7310 32	7312 32	7316 32		7314 32		7320 32		7330 32	7332 32	7334 32		7338 32
13 A FCU + cord outlet + indicator		7300 33		7310 33	7312 33	7316 33		7314 33		7320 33		7330 33	7332 33	7334 33		733833
Double pole switches 20 A																
20 A DP switch		7300 10		7310 10	7312 10	7316 10		7314 10		7320 10		7330 10	7332 10	7334 10		7338 10
20 A DP switch marked 'WATER HEATER'		7301 10		–	–	–		–		–		–	–	–		–
20 A DP switch + cord outlet		7300 14		7310 14	7312 14	7316 14		7314 14		7320 14		7330 14	7332 14	7334 14		7338 14
20 A DP switch + cord outlet marked 'WATER HEATER'		7301 14		–	–	–		–		–		–	–	–		–
20 A DP switch + deep plate + bottom cord outlet		7300 15		–	–	–		–		–		–	–	–		–
20 A DP switch + deep plate + bottom cord outlet marked 'WATER HEATER'		7301 15		–	–	–		–		–		–	–	–		–
20 A DP switch + cord outlet + indicator		7300 16		7310 16	7312 16	7316 16		7314 16		7320 16		7330 16	7332 16	7334 16		7338 16
20 A DP switch + cord outlet + indicator marked 'WATER HEATER'		7301 16		–	–	–		–		–		–	–	–		
20 A DP switch + indicator		7300 12		7310 12	7312 12	7316 12		7314 12		7320 12		7330 12	7332 12	7334 12		7338 12
20 A DP switch + indicator marked 'WATER HEATER'		7301 12		–	–	–		–		–		–	–	–		–
20 A sink/bath dual switch + indicator		7300 18		–	–	–		–		–		–	–	–		–
Double pole switches 45 A																
45 A DP switch 146 x 86		7300 20		–	–	–		–		–		–	–	–		–
45 A DP switch 146 x 86 + red rocker		7301 20		–	–	–		–		–		7330 20	7332 20	7334 20		7338 20
45 A DP switch 146 x 86 + indicator		7300 21		–	–	–		–		–		–	–	–		–
45 A DP switch 146 x 86 + red rocker + indicator		–		7310 21	7312 21	7316 21		7314 21		–		7330 21	7332 21	7334 21		7338 21
45 A DP switch 86 x 86		7300 22		–	–	–		–		–		–	–	–		–
45 A DP switch 86 x 86 + red rocker		7301 22		7310 22	7312 22	7316 22		7314 22		7320 22		7330 22	7332 22	7334 22		–
45 A DP switch 86 x 86 + indicator		7300 23		–	–	–		–		–		–	–	–		–
45 A DP switch 86 x 86 + red rocker + indicator		–		7310 23	7312 23	7316 23		7314 23		7320 23		7330 23	7332 23	7334 23		–

See catalogue pages for full product specifications

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Synergy® function selection chart (continued)

FUNCTIONS	WHITE		MODERN						ROPE EDGE		TRADITIONAL				METALCLAD	
			Silver		Nickel	Matt black		Black nickel	Polished brass		Brushed stainless steel		Polished stainless steel	Satin brass		
Cooker control units																
Cooker unit DP switch with DP switched socket		7300 28		–	–	–		–		–		7330 28	7332 28	7334 28		–
Cooker unit DP switch with DP switched socket + indicator		7300 29		7310 29	7312 29	7314 29		7316 29		–		7330 29	7332 29	7334 29		–
Cable outlets																
Cable outlet 20 A terminal block		7300 19		7310 19	7312 19	7316 19		7314 19		7320 19		7330 19	7332 19	7334 19		733819
Cable outlet 45 A terminal block		7300 26		7310 26	7312 26	7316 26		7314 26		7320 26		7330 26	7332 26	7332 26		–
Cable outlet 45 A no terminals		7300 27		–	–					–		–	–	–		–
TV, radio and satellite sockets																
Screened TV single male		7300 40		7310 40	7312 40	7316 40		7314 40		7320 40		7330 40	7332 40	7334 40		7338 40
Screened TV single female		7301 40		–	–	–		–		–		–	–	–		–
Screened satellite		7300 41		7310 41	7312 41	7316 41		7314 41		7320 41		7330 41	7332 41	7334 41		7338 41
Screened TV/FM		7300 42		7310 42	7312 42	7316 42		7314 42		7320 42		7330 42	7332 42	7334 42		–
Screened TV/FM/satellite		7300 43		7310 43	7312 43	7316 43		7314 43		7320 43		7330 43	7332 43	7334 43		–
Quad outlet TV/FM / 2 x Satellite/TV return/phone		7300 45		7310 45	7312 45	7316 45		7314 45		–		7330 45	7332 45	7334 45		–
Telephone sockets																
Telephone socket single master		7300 50		7310 50	7312 50	7316 50		7314 50		7320 50		7330 50	7332 50	7334 50		7338 50
Telephone socket single secondary		7300 51		7310 51	7312 51	7316 51		7314 51		7320 51		7330 51	7332 51	7334 51		7338 51
Telephone socket RJ11/12 single		7300 54		7310 54	7312 54	7316 54		7314 54		7320 54		7330 54	7332 54	7334 54		–
Data sockets																
Data outlet RJ45 single - CAT 6 UTP		7300 56		7310 56	7312 56	7316 56		7314 56		7320 56		7330 56	7332 56	7334 56		7338 56
Data outlet RJ45 double - CAT 6 UTP		7300 57		7310 57	7312 57	7316 57		7314 57		7320 57		7330 57	7332 57	7334 57		7338 57
Accessories																
Blanking plate 1 gang		7300 95		7310 95	7312 95	7316 95		7314 95		7320 95		7330 95	7332 95	7334 95		7338 95
Blanking plate 2 gang		7300 96		7310 96	7312 96	7316 96		7314 96		7320 96		7330 96	7332 96	7334 96		7338 96
Outlet plate 1 gang		7300 52		7310 52	7312 52	7316 52		7314 52		7320 52		7330 52	7332 52	7334 52		–
Cord outlet accessory box		7300 53		–	–	–		–		–		–	–	–		–
Spacer frame 1 gang		7301 95		–	–	–		–		–		–	–	–		–
Spacer frame 2 gang		7301 96		–	–	–		–		–		–	–	–		–
Carrier plates																
Carrier plate 1 gang 1 Mosaic module		7300 91		7310 91	7312 91	7316 91		7314 91		7320 91		7330 91	7332 91	7334 91		7338 91
Carrier plate 1 gang 2 Mosaic modules		7300 92		7310 92	7312 92	7316 92		7314 92		7320 92		7330 92	7332 92	7334 92		7338 92
Carrier plate 2 gang 3 Mosaic modules		7300 93		7310 93	7312 93	7316 93		7314 93		7320 93		7330 93	7332 93	7334 93		7338 93
Carrier plate 2 gang 4 Mosaic modules		7300 94		7310 94	7312 94	7316 94		7314 94		7320 94		7330 94	7332 94	7334 94		7338 94

See catalogue pages for full product specifications

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white


7300 00


7300 02


7300 07


7301 07


7301 33


7300 06


7300 08



7300 09

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (see p. 112)

Single pole plate switches 10 AX - 250 V~

Conform to BS EN 60669-1 : 2000

Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 00	1 gang – 1 way
10	7300 01	1 gang – 2 way
10	7300 05	1 gang – intermediate
10	7300 02	2 gang – 2 way
10	7300 03	3 gang – 2 way

Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos.	
5	7300 04	4 gang – 2 way
5	7300 06	6 gang – 2 way

Single pole plate switches 20 AX - 250 V~

Conform to BS EN 60669-1 : 2000

Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7301 30	1 gang – 1 way
10	7301 31	1 gang – 2 way
10	7301 32	2 gang – 2 way
10	7301 33	3 gang – 2 way

Single pole push switches 10 A - 250 V~

Conform to BS EN 60669-1 : 2000

Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
5	7300 07	1 gang – 2 way push switch
5	7300 11	1 gang – 2 way push switch marked “PRESS”
5	7301 07	1 gang – 2 way push switch with “BELL” symbol

Single pole key switch 10 AX - 250 V~

Conforms to BS EN 60669-1 : 2000

Key supplied
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 08	1 gang – 2 way
5	0811 77	Spare key for above

Isolator switch 10 A - 250 V~ 3 pole

Conforms to BS EN 60669-2-4

With integrated padlockable safety block in OFF position
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 09	3 pole isolator switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 46


7300 47


7300 60


7300 70


7300 49


7301 62


7300 74

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Pack	Cat. Nos.	Dimmer units - 230 V~
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
		Rotary dimming and push on/off For use with 230 V AC Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
		Dimmers for use with tungsten filament lamps and good quality GU10 halogen lamps
1	7300 48	1 gang – 2 way 50 Hz 60 W-400 W push on/off rotary
		Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer
1	7300 46	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7300 47	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

Pack	Cat. Nos.	Dimmer units - 230 V~ - electronic type
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
		Rotary dimming and push on/off For use with 230 V AC - 50-60 Hz Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep
		Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads.
		Nominal plate dimensions : 86 x 86 mm
1	7301 56	1 gang – 2 way 50 Hz 40 W-400 W push on/off rotary
1	7301 57	2 gang – 2 way 50 Hz 40 W-400 W push on/off rotary
		Nominal plate dimensions : 86 x 146 mm
1	7300 49	4 gang – 2 way 50 Hz 40 W-400 W push on/off rotary

Pack	Cat. Nos.	Double pole socket outlets 13 A - 250 V~
		Conform to BS 1363 - Part 2 : 1995
		Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 60	1 gang – switched
10	7301 60	1 gang – switched with deep plate(1)
10	7301 62	1 gang – switched with red rocker
10	7300 61	1 gang – switched with red LED power indicator
10	7300 64	1 gang – switched for standard and clean earth applications
10	7300 67	1 gang – switched non-standard earth pin(2) for standard and clean earth applications
		Nominal plate dimensions : 86 x 146 mm
5	7300 70	2 gang – switched
5	7301 70	2 gang – switched with deep plate(1)
5	7301 61	2 gang – switched with red rocker
5	7300 71	2 gang – switched with red LED power indicator
5	7300 74	2 gang – switched outboard for standard and clean earth applications
5	7300 77	2 gang – switched non-standard earth pin(2) for standard and clean earth applications

(1) Plates nominally 14 mm deep to match the depth of bottom cord outlet fused connection units and 20 A DP connection units
(2) For details of suitable non-standard earth pin plug, see p. 108

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 66


7301 76


7300 89


7300 69


7300 65


7300 97


7300 59


7300 87

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Single pole socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995
Conventional earth pin release shutter
Single earth terminal
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 1 gang - 86 x 86 mm
2 gang - 86 x 146 mm

Pack	Cat. Nos.	
10	7300 66	1 gang – switched
10	7301 66	1 gang – switched with deep plate(1)
5	7300 76	2 gang – switched
5	7301 76	2 gang – switched with deep plate(1)

Unswitched and Key switched socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995
Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 1 gang - 86 x 86 mm
2 gang - 86 x 146 mm

Pack	Cat. Nos.	
10	7300 65	1 gang – unswitched
5	7300 75	2 gang – unswitched
1	8200 74	2 gang single socket with DP key switch

RCD sockets 13 A - 250 V~

Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995
Conventional earth pin release shutter
Maximum operating current 16 A
Incorporate a "test and reset" button
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos.	
1	7300 97	RCD unit 2 gang DP 30 mA active trips on power failure
1	7300 98	RCD unit 2 gang DP 30 mA passive does NOT trip on power failure

(1) Plates nominally 14 mm deep to match the depth of bottom cord outlet fused connection units and 20 A DP connection units

Socket outlets 15 A - 250 V~

Conform to BS 546 : 1950
Patented 3 pin safety shutter mechanism
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 88	1 gang – unswitched
10	7300 89	1 gang – switched

Socket outlets 5 A - 250 V~

Conform to BS 546 : 1950
Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 68	1 gang – unswitched
10	7300 69	1 gang – switched

Socket outlet 2 A - 250 V~

Conforms to BS 546 : 1950
Conventional earth pin shutter release
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 59	1 gang – unswitched

Socket outlet 10/16 A - 250 V~ German

Conforms to IEC 60884-1 : 2002
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7300 87	1 gang – unswitched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 90



7300 38

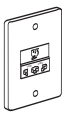

7300 34


7300 36


7300 30


7300 33

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling(1)
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Pack	Cat. Nos.	Shaver socket
		Conforms to BS EN 61558-2-5 : 1998 IP 24 For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 146 x 86 mm
1	7300 90	 Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

Pack	Cat. Nos.	Fused connection unit 3 A - 250 V~
		Conforms to BS 1363 - Part 4 : 1995 Fused 3 A (fuse supplied) Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety Use cord outlet accessory box Cat. No. 7300 53 for flush to wall external cord connection, (see p. 42) Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 38	 Unswitched marked “3 AMPS” with cord outlet

Pack	Cat. Nos.	Fused connection units 13 A - 250 V~(1)
		Conform to BS 1363 - Part 4 : 1995 Fused 13 A (fuse supplied) Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety To obtain flush to wall external cord connection on standard depth Cat. Nos. use cord outlet accessory box Cat. No. 7300 53 (see p. 42) Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 34	 Switched, DP
10	7300 35	 Switched, DP with red LED power indicator
10	7300 36	 Switched, DP with cord outlet
10	7301 39	 Switched, DP with cord outlet marked “WATER HEATER”
10	7300 37	 Switched, DP with cord outlet + red LED power indicator
10	7301 36	 Switched, DP - deep plate with bottom cord outlet(2)
10	7300 30	 Unswitched
10	7300 31	 Unswitched with red LED power indicator
10	7300 32	 Unswitched with cord outlet
10	7300 33	 Unswitched with cord outlet + red LED power indicator



Engraving available

see p. 44-45

(1) Except Cat. No. 7300 90

(1) Range of engraving available on most products, see table on p. 44-45
(2) For 13 A switched sockets with matching depth faceplate, see p. 38

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 10



7301 10



7301 20



7300 23



7300 18


7300 19



7300 29

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Pack	Cat. Nos.	Double pole switches 20 A - 250 V~[1]
		Conform to BS EN 60669-1 : 2000 Use cord outlet accessory box Cat. No. 7300 53 for flush to wall external cord connection, (see p. 42) Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 10	20 A DP
10	7301 10	20 A DP marked “WATER HEATER”
10	7300 14	20 A DP with cord outlet
10	7301 14	20 A DP with cord outlet marked “WATER HEATER”
10	7300 15	20 A DP - deep plate with bottom cord outlet[2]
10	7301 15	20 A DP - deep plate with bottom cord outlet marked “WATER HEATER”[2]
10	7300 16	20 A DP with cord outlet + red LED power indicator
10	7301 16	20 A DP with cord outlet marked “WATER HEATER” + red LED power indicator
10	7300 12	20 A DP + red LED power indicator
10	7301 12	20 A DP marked “WATER HEATER” + red LED power indicator
10	7300 18	20 A sink/bath dual switch + red LED power indicator

Pack	Cat. Nos.	Cable outlet 20 A - 250 V~
		Conforms to BS 5733 : 1995 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 19	20 A – with terminal block and outlet gland

(1) Range of engraving available on most products, see table on p. 44-45
(2) For 13 A switched sockets with matching depth faceplate, see p. 38

Pack	Cat. Nos.	Double pole switches 45 A - 250 V~
		Conform to BS EN 60669-1 : 2000 Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 146 x 86 mm
5	7300 20	45 A DP
5	7301 20	45 A DP with red rocker marked “COOKER”
5	7300 21	45 A DP + red LED power indicator
		Nominal plate dimensions : 86 x 86 mm
10	7300 22	45 A DP
10	7301 22	45 A DP with red rocker marked “COOKER”
10	7300 23	45 A DP + red LED power indicator

Pack	Cat. Nos.	Cooker control units
		Conform to BS 4177 : 1992 45 A - 250 V~ double pole switch with 13 A - 250 V~ double pole switched socket outlet Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 146 mm
5	7300 28	DP with DP switched socket
5	7300 29	DP with DP switched socket + red LED power indicator

Pack	Cat. Nos.	Cable outlets 45 A - 250 V~
		Conform to BS 5733 : 1995 2 piece design for safety Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 86 mm
5	7300 26	45 A – with terminal block
5	7300 27	45 A – no terminals

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 40


7300 42


7300 50


7300 43


7300 45


7300 56


7300 57

Front plates : white thermoset
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

TV, radio and satellite sockets

Pack	Cat. Nos.	
		Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 40	Screened TV – single, male Non-isolated
10	7301 40	Screened TV – single, female Non-isolated
1	7300 41	Screened satellite – single, 'F' type
10	7300 42	Screened TV + FM Isolated
1	7300 43	Screened TV + FM + satellite, 'F' type
		Nominal plate dimensions : 86 x 146 mm
1	7300 45	Quad outlet, TV, radio + 2 satellite + TV return with secondary telephone outlet

Telephone sockets

Pack	Cat. Nos.	
		Shuttered Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 86 x 86 mm
10	7300 50	Single master
10	7300 51	Single secondary
10	7300 54	Single RJ11/12

Data sockets

		CAT 6 compliant UTP Rapid cable connection Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 86 x 86 mm
1	7300 56	RJ45 – single
1	7300 57	RJ45 – double

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
white (continued)


7300 95

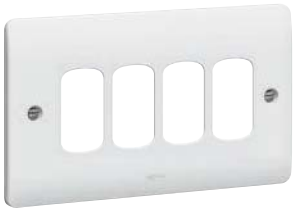

7300 96


7300 92


7354 91


7301 58


7301 91


7301 94

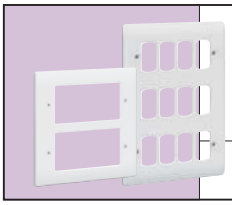
Pack	Cat. Nos.	Accessories
		Blanking plates
10	7300 95	1 gang - 86 x 86 mm
10	7300 96	2 gang - 86 x 146 mm
		LED packs
		Relevant Synergy functions are designed to accept the LED packs for fitting at time of installation or retrospectively by a qualified person Compatible with fluorescent loads
10	7301 58	Electronic LED locator pack – green diodes : max. current 0·2 mA provides illumination to locate function such as switches in low light
10	7300 58	Electronic LED power indicator pack – red diodes : nominal current 2 mA provides indication of 'power on' condition in such functions as sockets and control switches
10	7301 52	Terminal to connect diode packs to additional external cable
		Outlet plate - VDI/low voltage
10	7300 52	1 gang - 86 x 86 mm with cable clamp and outlet gland
		Accessory frames
10	7300 53	1 gang - 86 x 86 x 11 mm with bottom cord outlet For flush to wall external cord connection suitable for use with 13 A and 20 A control switches and other relevant 86 x 86 mm functions Integral cord grip
10	7301 95	1 gang - 86 x 86 x 7 mm spacer frame
5	7301 96	2 gang - 86 x 146 x 7 mm spacer frame
		Spare screw cap covers
10	7301 53	Pack of 50 caps to cover mounting screws

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Pack	Cat. Nos.	Carrier plates for Mosaic modules
		No additional yoke required
10	7300 91	1 gang - 86 x 86 mm 1 Mosaic module
10	7300 92	1 gang - 86 x 86 mm 2 Mosaic modules
10	7300 93	2 gang - 86 x 146 mm 3 Mosaic modules
10	7300 94	2 gang - 86 x 146 mm 4 Mosaic modules

		1 and 2 gang front plates for grid modules
		For yokes, see below
10	7301 91	1 gang - 86 x 86 mm 1 small aperture module
10	7301 92	1 gang - 86 x 86 mm 2 small aperture modules
10	7301 93	2 gang - 86 x 146 mm 3 small aperture modules
10	7301 94	2 gang - 86 x 146 mm 4 small aperture modules

		1 and 2 gang yokes for grid modules
10	7354 90	1 gang 1 module
10	7354 91	1 gang 2 modules
10	7354 92	2 gang 3/4 modules



For complete range of grid front plates and modules

see p. 76-94

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ LED power and locator indicators

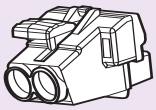
Power indicator Cat. No. 7300 58 (red) and locator indicator Cat. No. 7301 58 (green)

These LED packs can be fitted as an option to a range of Synergy White functions including :

- 10 A switches 1 gang
- 5 A, 13 A and 15 A socket outlets
- 13 A connection units
- 20 A and 45 A double pole control switches

The LED packs are wired in alternative ways for different functionality. Factory fitted LEDs can be re-configured on site

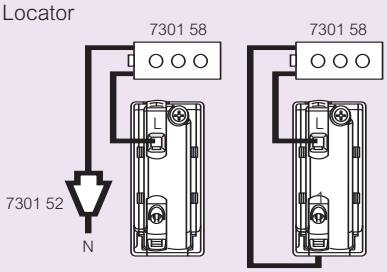
A screwless terminal Cat. No. 7301 52 is available where the use of a neutral is required
The terminal has provision for 2 x 2·5 mm² solid cables and one spade connector as fitted to the LED pack



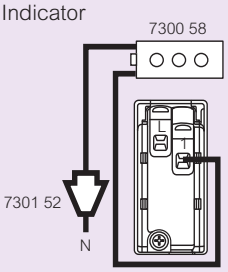
■ Sample wiring schemes

Switch 10 A

Locator

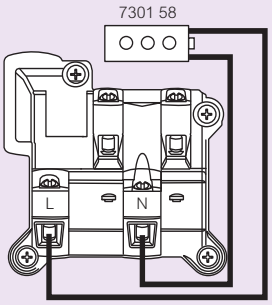


Indicator

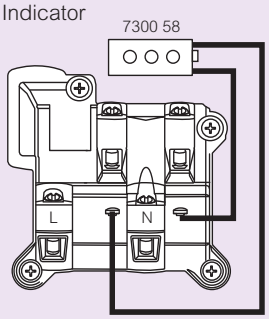


Socket 13 A switched

Locator

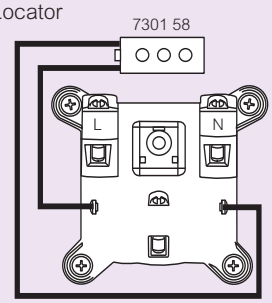


Indicator



Socket 13 A unswitched

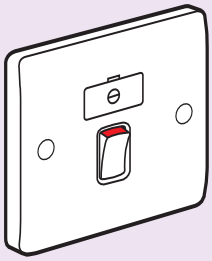
Locator



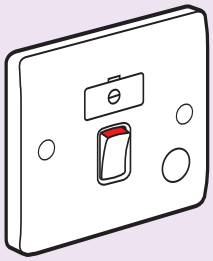
■ Cable outlet options : 13 A connection units and 20 A double pole control switches

These devices are available in three cable outlet variants :

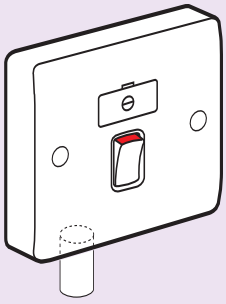
- Without provision for an external cable outlet (i.e. for internal cabling)
- With a cable outlet in the front plate supplied with an integral screw type cable clamp and outlet cover plug
- With a bottom cord outlet on a deep plate



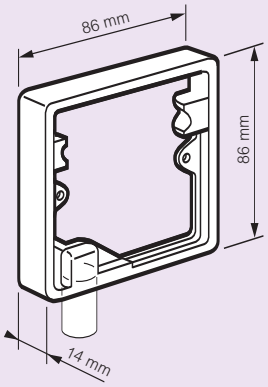
13 A fused connection unit
no external cable outlet



13 A fused connection unit
with front cable outlet



13 A fused connection unit
with deep plate and bottom
cable outlet



Additionally the use of cord outlet accessory box Cat. No. 7300 53,
enables a flush-to-wall cable outlet option
The outlet box dimensions are nominally 86 x 86 mm and 14 mm deep
The outlet box is supplied with the necessary longer installation screws
and has an integral automatic cable restraint

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Synergy®
white

LEGRAND SYNERGY STANDARD ENGRAVING							LEGRAND SYNERGY STANDARD ENGRAVING								
Engraving	20A DP SWITCHES						13A FUSED CONNECTION UNITS								
	Front cable outlet	Front cable outlet with indicator	Bottom cable outlet	Without cable outlet	Without cable outlet with indicator		Switched with front cable outlet	Switched with front cable outlet and indicator	Switched with bottom cable outlet	Switched without cable outlet	Switched without cable outlet with indicator	Unswitched with front cable outlet	Unswitched with front cable outlet with indicator	Unswitched without cable outlet	Unswitched without cable outlet with indicator
AIR CONDITIONER	7300 14AC	7300 16AC	7300 15AC	7300 10AC	7300 12AC		7300 36AC	7300 37AC	7301 36AC	7300 34AC	7300 35AC	7300 32AC	7300 33AC	7300 30AC	7300 31AC
APPLIANCE	7300 14AP	7300 16AP	7300 15AP	7300 10AP	7300 12AP		7300 36AP	7300 37AP	7301 36AP	7300 34AP	7300 35AP	7300 32AP	7300 33AP	7300 30AP	7300 31AP
BELL	7300 14BL	7300 16BL	7300 15BL	7300 10BL	7300 12BL		7300 36BL	7300 37BL	7301 36BL	7300 34BL	7300 35BL	7300 32BL	7300 33BL	7300 30BL	7300 31BL
Bell symbol	7300 14BY	7300 16BY	7300 15BY	7300 10BY	7300 12BY		7300 36BY	7300 37BY	7301 36BY	7300 34BY	7300 35BY	7300 32BY	7300 33BY	7300 30BY	7300 31BY
CENTRAL HEATING	7300 14CG	7300 16CG	7300 15CG	7300 10CG	7300 12CG		7300 36CG	7300 37CG	7301 36CG	7300 34CG	7300 35CG	7300 32CG	7300 33CG	7300 30CG	7300 31CG
COOKER HOOD	7300 14CH	7300 16CH	7300 15CH	7300 10CH	7300 12CH		7300 36CH	7300 37CH	7301 36CH	7300 34CH	7300 35CH	7300 32CH	7300 33CH	7300 30CH	7300 31CH
DISHWASHER	7300 14DW	7300 16DW	7300 15DW	7300 10DW	7300 12DW		7300 36DW	7300 37DW	7301 36DW	7300 34DW	7300 35DW	7300 32DW	7300 33DW	7300 30DW	7300 31DW
EXTRACTOR	7300 14EX	7300 16EX	7300 15EX	7300 10EX	7300 12EX		7300 36EX	7300 37EX	7301 36EX	7300 34EX	7300 35EX	7300 32EX	7300 33EX	7300 30EX	7300 31EX
EXTRACTOR HOOD	7300 14EH	7300 16EH	7300 15EH	7300 10EH	7300 12EH		7300 36EH	7300 37EH	7301 36EH	7300 34EH	7300 35EH	7300 32EH	7300 33EH	7300 30EH	7300 31EH
FAN	7300 14FN	7300 16FN	7300 15FN	7300 10FN	7300 12FN		7300 36FN	7300 37FN	7301 36FN	7300 34FN	7300 35FN	7300 32FN	7300 33FN	7300 30FN	7300 31FN
Fan symbol	7300 14FY	7300 16FY	7300 15FY	7300 10FY	7300 12FY		7300 36FY	7300 37FY	7301 36FY	7300 34FY	7300 35FY	7300 32FY	7300 33FY	7300 30FY	7300 31FY
FREEZER	7300 14FZ	7300 16FZ	7300 15FZ	7300 10FZ	7300 12FZ		7300 36FZ	7300 37FZ	7301 36FZ	7300 34FZ	7300 35FZ	7300 32FZ	7300 33FZ	7300 30FZ	7300 31FZ
FRIDGE	7300 14FR	7300 16FR	7300 15FR	7300 10FR	7300 12FR		7300 36FR	7300 37FR	7301 36FR	7300 34FR	7300 35FR	7300 32FR	7300 33FR	7300 30FR	7300 31FR
FRIDGE FREEZER	7300 14FF	7300 16FF	7300 15FF	7300 10FF	7300 12FF		7300 36FF	7300 37FF	7301 36FF	7300 34FF	7300 35FF	7300 32FF	7300 33FF	7300 30FF	7300 31FF
HEATER	7300 14HR	7300 16HR	7300 15HR	7300 10HR	7300 12HR		7300 36HR	7300 37HR	7301 36HR	7300 34HR	7300 35HR	7300 32HR	7300 33HR	7300 30HR	7300 31HR
HOB	7300 14HB	7300 16HB	7300 15HB	7300 10HB	7300 12HB		7300 36HB	7300 37HB	7301 36HB	7300 34HB	7300 35HB	7300 32HB	7300 33HB	7300 30HB	7300 31HB
MICROWAVE	7300 14MW	7300 16MW	7300 15MW	7300 10MW	7300 12MW		7300 36MW	7300 37MW	7301 36MW	7300 34MW	7300 35MW	7300 32MW	7300 33MW	7300 30MW	7300 31MW
ON / OFF	7300 14OO	7300 16OO	7300 15OO	7300 10OO	7300 12OO		7300 36OO	7300 37OO	7301 36OO	7300 34OO	7300 35OO	7300 32OO	7300 33OO	7300 30OO	7300 31OO
OVEN	7300 14OV	7300 16OV	7300 15OV	7300 10OV	7300 12OV		7300 36OV	7300 37OV	7301 36OV	7300 34OV	7300 35OV	7300 32OV	7300 33OV	7300 30OV	7300 31OV
TOWEL RAIL	7300 14TR	7300 16TR	7300 15TR	7300 10TR	7300 12TR		7300 36TR	7300 37TR	7301 36TR	7300 34TR	7300 35TR	7300 32TR	7300 33TR	7300 30TR	7300 31TR
TUMBLE DRYER	7300 14TD	7300 16TD	7300 15TD	7300 10TD	7300 12TD		7300 36TD	7300 37TD	7301 36TD	7300 34TD	7300 35TD	7300 32TD	7300 33TD	7300 30TD	7300 31TD
WASHER DRYER	7300 14WD	7300 16WD	7300 15WD	7300 10WD	7300 12WD		7300 36WD	7300 37WD	7301 36WD	7300 34WD	7300 35WD	7300 32WD	7300 33WD	7300 30WD	7300 31WD
WASHING MACHINE	7300 14WM	7300 16WM	7300 15WM	7300 10WM	7300 12WM		7300 36WM	7300 37WM	7301 36WM	7300 34WM	7300 35WM	7300 32WM	7300 33WM	7300 30WM	7300 31WM
WATER HEATER	7300 14WH	7300 16WH	7300 15WH	7300 10WH	7300 12WH		7300 36WH	7300 37WH	7301 36WH	7300 34WH	7300 35WH	7300 32WH	7300 33WH	7300 30WH	7300 31WH

Full box quantities only - Pack quantity 10

Engraved markings differ slightly from pad printed markings appearing elsewhere in the catalogue
For lead times of above engravings, please contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern


7310 00


7312 02


7316 00


7314 02


7310 03


7312 07


7316 03


7314 07

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Single pole plate switches 10 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 00	7312 00	1 gang – 1 way
1	7310 01	7312 01	1 gang – 2 way
1	7310 05	7312 05	1 gang – intermediate
1	7310 02	7312 02	2 gang – 2 way
1	7310 03	7312 03	3 gang – 2 way

Nominal plate dimensions : 89 x 149 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 04	7312 04	4 gang – 2 way

Single pole plate switches 10 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 00	7314 00	1 gang – 1 way
1	7316 01	7314 01	1 gang – 2 way
1	7316 05	7314 05	1 gang – intermediate
1	7316 02	7314 02	2 gang – 2 way
1	7316 03	7314 03	3 gang – 2 way

Nominal plate dimensions : 89 x 149 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 04	7314 04	4 gang – 2 way

Single pole plate switches 20 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7311 31	7313 31	1 gang – 2 way
1	7311 32	7313 32	2 gang – 2 way
1	7311 33	7313 33	3 gang – 2 way

Single pole plate switches 20 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7317 31	7315 31	1 gang – 1 way
1	7317 32	7315 32	2 gang – 2 way
1	7317 33	7315 33	3 gang – 2 way

Single pole push switches 10 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 07	7312 07	1 gang – 2 way push switch

Single pole push switches 10 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 07	7314 07	1 gang – 2 way push switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 46


7312 47


7316 46


7314 47


7310 09


7312 09


7316 09


7314 09

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Dimmer units - 230 V~
			Conform to BS EN 60669-2-1 : 2000 Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer
1	7310 46	7312 46	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7310 47	7312 47	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

	Silver	Nickel	Dimmer units - 230 V~ - electronic type
			Conform to BS EN 60669-2-1 : 2000 Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads
1	7311 56	7313 56	1 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary
1	7311 57	7313 57	2 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary

	Silver	Nickel	Isolator switches 10 A - 250 V~ 3 pole
			Conform to BS EN 60669-2-4 White rocker with integrated padlockable safety block in OFF position Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7310 09	7312 09	3 pole isolator switch

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Dimmer units - 230 V~
			Conform to BS EN 60669-2-1 : 2000 Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer
1	7390 46	7391 46	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7390 47	7391 47	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

	Matt black	Black nickel	Dimmer units - 230 V~ - electronic type
			Conform to BS EN 60669-2-1 : 2000 Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads
1	7316 46	7314 46	1 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary
1	7316 47	7314 47	2 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary

	Matt black	Black nickel	Isolator switches 10 A - 250 V~ 3 pole
			Conform to BS EN 60669-2-4 White rocker with integrated padlockable safety block in OFF position Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7316 09	7314 09	3 pole isolator switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 60


7312 61


7316 60


7314 61


7310 70


7312 71


7316 70


7314 71

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Double pole socket outlets 13 A - 250 V~
			Conform to BS 1363 - Part 2 : 1995
			Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7310 60	7312 60	1 gang – switched
1	7310 61	7312 61	1 gang – switched + red LED power indicator
			Nominal plate dimensions : 89 x 149 mm
1	7310 70	7312 70	2 gang – switched
1	7310 71	7312 71	2 gang – switched + red LED power indicator

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Double pole socket outlets 13 A - 250 V~
			Conform to BS 1363 - Part 2 : 1995
			Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7316 60	7314 60	1 gang – switched
1	7316 61	7314 61	1 gang – switched + red LED power indicator
			Nominal plate dimensions : 89 x 149 mm
1	7316 70	7314 70	2 gang – switched
1	7316 71	7314 71	2 gang – switched + red LED power indicator

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 65


7312 88


7316 65


7314 88


7310 89


7312 59


7316 89


7314 59

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Silver	Nickel	
	Cat. Nos.		**Unswitched socket outlets 13 A - 250 V~**
			Conform to BS 1363 - Part 2 : 1995 Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 1 gang - 89 x 89 mm 2 gang - 89 x 149 mm
1	7310 65	7312 65	1 gang – unswitched
1	7310 75	7312 75	2 gang – unswitched
			RCD sockets 13 A - 250 V~
			Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995 Stainless steel plate with fixing screws Conventional earth pin release shutter Maximum operating current 16 A Incorporate a “test and reset” button Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 146 mm
1	7310 97	7312 97	**Active :** Electrical latching - trips on power failure RCD unit 2 gang DP 30 mA active
1	7310 98	7312 98	**Passive :** Mechanical latching - does NOT trip on power failure RCD unit 2 gang DP 30 mA passive
			Socket outlets 15 A - 250 V~
			Conform to BS 546 : 1950 Patented 3 pin safety shutter mechanism Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 89 x 89 mm
1	7310 88	7312 88	1 gang – unswitched
1	7310 89	7312 89	1 gang – switched
			Socket outlets 2 A - 250 V~
			Conform to BS 546 : 1950 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7310 59	7312 59	1 gang – unswitched

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Matt black	Black nickel	
	Cat. Nos.		**Unswitched socket outlets 13 A - 250 V~**
			Conform to BS 1363 - Part 2 : 1995 Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 1 gang - 89 x 89 mm 2 gang - 89 x 149 mm
1	7316 65	7314 65	1 gang – unswitched
1	7316 75	7314 75	2 gang – unswitched
			RCD sockets 13 A - 250 V~
			Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995 Stainless steel plate with fixing screws Conventional earth pin release shutter Maximum operating current 16 A Incorporate a “test and reset” button Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 146 mm
1	7316 97	7314 97	**Active :** Electrical latching - trips on power failure RCD unit 2 gang DP 30 mA active
1	7316 98	7314 98	**Passive :** Mechanical latching - does NOT trip on power failure RCD unit 2 gang DP 30 mA passive
			Socket outlets 15 A - 250 V~
			Conform to BS 546 : 1950 Patented 3 pin safety shutter mechanism Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 89 x 89 mm
1	7316 88	7314 88	1 gang – unswitched
1	7316 89	7314 89	1 gang – switched
			Socket outlets 2 A - 250 V~
			Conform to BS 546 : 1950 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7316 59	7314 59	1 gang – unswitched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 68


7310 69


7312 90


7316 68


7316 69


7314 90

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Socket outlets 5 A - 250 V~
			Conform to BS 546 : 1950
			Patented 3 pin safety shutter mechanism Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7310 68	7312 68	1 gang – unswitched
1	7310 69	7312 69	1 gang – switched

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Shaver sockets
			Conform to BS EN 61558-2-5 : 1998 IP 24
			For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 149 x 89 mm
1	7310 90	7312 90	Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Socket outlets 5 A - 250 V~
			Conform to BS 546 : 1950
			Patented 3 pin safety shutter mechanism Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 89 x 89 mm
1	7316 68	7314 68	1 gang – unswitched
1	7316 69	7314 69	1 gang – switched

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Shaver sockets
			Conform to BS EN 61558-2-5 : 1998 IP 24
			For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 149 x 89 mm
1	7316 90	7314 90	Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 35


7312 34


7316 35


7314 34


7310 37


7312 32


7316 37


7314 32

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Fused connection units 13 A - 250 V~

Conform to BS 1363 - Part 4 : 1995

Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 34	7312 34	Switched, DP
1	7310 35	7312 35	Switched, DP + red LED power indicator
1	7310 36	7312 36	Switched, DP with cord outlet
1	7310 37	7312 37	Switched, DP with cord outlet + red LED power indicator
1	7310 30	7312 30	Unswitched
1	7310 31	7312 31	Unswitched + red LED power indicator
1	7310 32	7312 32	Unswitched with cord outlet
1	7310 33	7312 33	Unswitched with cord outlet + red LED power indicator

Fused connection units 13 A - 250 V~

Conform to BS 1363 - Part 4 : 1995

Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 34	7314 34	Switched, DP
1	7316 35	7314 35	Switched, DP + red LED power indicator
1	7316 36	7314 36	Switched, DP with cord outlet
1	7316 37	7314 37	Switched, DP with cord outlet + red LED power indicator
1	7316 30	7314 30	Unswitched
1	7316 31	7314 31	Unswitched + red LED power indicator
1	7316 32	7314 32	Unswitched with cord outlet
1	7316 33	7314 33	Unswitched with cord outlet + red LED power indicator

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 10


7312 12


7316 14


7314 12


7310 23


7312 22


7316 23


7314 22

Front plates : clip on die cast plate with high quality satin finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Front plates : clip on die cast plate with high quality finish; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Double pole switches 20 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 10	7312 10	20 A DP
1	7310 14	7312 14	20 A DP with cord outlet
1	7310 16	7312 16	20 A DP with cord outlet + red LED power indicator
1	7310 12	7312 12	20 A DP + red LED power indicator

Cable outlets 20 A - 250 V~

Conform to BS 5733 : 1995
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 19	7312 19	20 A – with terminal block and outlet gland

Double pole switches 45 A - 250 V~

Conform to BS EN 60669-1 : 1995
Red rocker
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 22	7312 22	45 A DP
1	7310 23	7312 23	45 A DP with red power indicator

Nominal plate dimensions : 146 x 86 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 21	7312 21	45 A DP with red power indicator Stainless steel plate with fixing screws

Cable outlets 45 A - 250 V~

Conform to BS 5733 : 1995
2 piece design for safety
Stainless steel plate with fixing screws
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	
1	7310 26	7312 26	45 A – with terminal block

Double pole switches 20 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 10	7314 10	20 A DP
1	7316 14	7314 14	20 A DP with cord outlet
1	7316 16	7314 16	20 A DP with cord outlet + red LED power indicator
1	7316 12	7314 12	20 A DP + red LED power indicator

Cable outlets 20 A - 250 V~

Conform to BS 5733 : 1995
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 19	7314 19	20 A – with terminal block and outlet gland

Double pole switches 45 A - 250 V~

Conform to BS EN 60669-1 : 1995
Red rocker
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 89 x 89 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 22	7314 22	45 A DP
1	7316 23	7314 23	45 A DP with red power indicator

Nominal plate dimensions : 146 x 86 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 21	7314 21	45 A DP with red power indicator Stainless steel plate with fixing screws

Cable outlets 45 A - 250 V~

Conform to BS 5733 : 1995
2 piece design for safety
Stainless steel plate with fixing screws
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	
1	7316 26	7314 26	45 A – with terminal block

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 42


7312 43


7316 42


7314 43


7310 50


7312 56


7316 50


7314 56

Front plates : clip on die cast plate with high quality satin finish;
anthracite interiors
Terminal screws captive and backed off ready for cabling

Front plates : clip on die cast plate with high quality finish;
anthracite interiors
Terminal screws captive and backed off ready for cabling

TV, radio and satellite sockets

Pack	Silver	Nickel	
1	7310 40	7312 40	Screened TV – single, male Non-isolated
1	7310 41	7312 41	Screened satellite – single, 'F' type
1	7310 42	7312 42	Screened TV + FM Isolated
1	7310 43	7312 43	Screened TV + FM + satellite, 'F' type
			Nominal plate dimensions : 86 x 146 mm
1	7310 45	7312 45	Quad outlet, TV, radio + 2 satellite + TV return with secondary telephone outlet(1)

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

Telephone sockets

Pack	Silver	Nickel	
1	7310 50	7312 50	Single master
1	7310 51	7312 51	Single secondary

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

Data sockets

CAT 6 compliant
UTP
Rapid cable connection

Pack	Silver	Nickel	
1	7310 56	7312 56	RJ45 – single
1	7310 57	7312 57	RJ45 – double

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

(1) Stainless steel plate with fixing screws

TV, radio and satellite sockets

Pack	Matt black	Black nickel	
1	7316 40	7314 40	Screened TV – single, male Non-isolated
1	7316 41	7314 41	Screened satellite – single, 'F' type
1	7316 42	7314 42	Screened TV + FM Isolated
1	7316 43	7314 43	Screened TV + FM + satellite, 'F' type
			Nominal plate dimensions : 86 x 146 mm
1	7316 45	7314 45	Quad outlet, TV, radio + 2 satellite + TV return with secondary telephone outlet(1)

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

Telephone sockets

Pack	Matt black	Black nickel	
1	7316 50	7314 50	Single master
1	7316 51	7314 51	Single secondary

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

Data sockets

CAT 6 compliant
UTP
Rapid cable connection

Pack	Matt black	Black nickel	
1	7316 56	7314 56	RJ45 – single
1	7316 57	7314 57	RJ45 – double

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 89 x 89 mm

(1) Stainless steel plate with fixing screws

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)


7310 95


7312 96


7316 95


7314 96


7310 92


7312 93


7316 92


7314 93

Front plates : clip on die cast plate with high quality satin finish;
anthracite interiors
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Accessories
			Blanking plates
1	7310 95	7312 95	1 gang - 89 x 89 mm
1	7310 96	7312 96	2 gang - 89 x 149 mm
			Outlet plates - VDI/low voltage
1	7310 52	7312 52	1 gang - 89 x 89 mm with cable clamp and outlet gland

Pack	Cat. Nos. Silver	Cat. Nos. Nickel	Carrier plates for Mosaic modules No additional yoke required
1	7310 91	7312 91	1 gang - 89 x 89 mm 1 Mosaic module
1	7310 92	7312 92	1 gang - 89 x 89 mm 2 Mosaic modules
1	7310 93	7312 93	2 gang - 89 x 149 mm 3 Mosaic modules
1	7310 94	7312 94	2 gang - 89 x 149 mm 4 Mosaic modules

Front plates : clip on die cast plate with high quality finish;
anthracite interiors
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Accessories
			Blanking plates
1	7316 95	7314 95	1 gang - 89 x 89 mm
1	7316 96	7314 96	2 gang - 89 x 149 mm
			Outlet plates - VDI/low voltage
1	7316 52	7314 52	1 gang - 89 x 89 mm with cable clamp and outlet gland

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	Carrier plates for Mosaic modules No additional yoke required
1	7316 91	7314 91	1 gang - 89 x 89 mm 1 Mosaic module
1	7316 92	7314 92	1 gang - 89 x 89 mm 2 Mosaic modules
1	7316 93	7314 93	2 gang - 89 x 149 mm 3 Mosaic modules
1	7316 94	7314 94	2 gang - 89 x 149 mm 4 Mosaic modules



For home network functions

see p. 18-19

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
modern (continued)

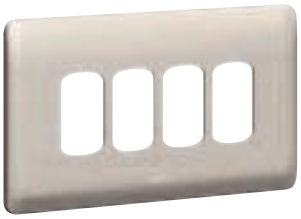

7311 91


7313 93


7317 91


7315 93


7311 92


7313 94


7317 92


7315 94

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

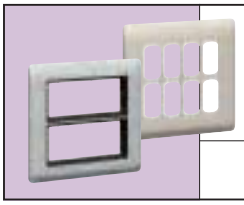
Pack	Cat. Nos. Silver	Cat. Nos. Nickel	1 and 2 gang front plates for grid modules
			For yokes, see below
1	7311 91	7313 91	1 gang - 89 x 89 mm 1 small aperture module
1	7311 92	7313 92	1 gang - 89 x 89 mm 2 small aperture modules
1	7311 93	7313 93	2 gang - 89 x 149 mm 3 small aperture modules
1	7311 94	7313 94	2 gang - 89 x 149 mm 4 small aperture modules

Pack	Cat. Nos.	1 and 2 gang yokes for grid modules
10	7354 81	1 gang 1/2 modules
10	7354 82	2 gang 3/4 modules

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Pack	Cat. Nos. Matt black	Cat. Nos. Black nickel	1 and 2 gang front plates for grid modules
			For yokes, see below
1	7317 91	7315 91	1 gang - 89 x 89 mm 1 small aperture module
1	7317 92	7315 92	1 gang - 89 x 89 mm 2 small aperture modules
1	7317 93	7315 93	2 gang - 89 x 149 mm 3 small aperture modules
1	7317 94	7315 94	2 gang - 89 x 149 mm 4 small aperture modules

Pack	Cat. Nos.	1 and 2 gang yokes for grid modules
10	7354 81	1 gang 1/2 modules
10	7354 82	2 gang 3/4 modules



For complete range of grid front plates and modules

see p. 76-94

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
rope edge polished brass


7320 00


7320 02


7320 46

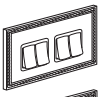
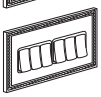

7320 47


7320 07


7320 06


7320 09

Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos.	**Single pole plate switches 10 AX - 250 V∿**	
		Conform to BS EN 60669-1 : 2000	
		Flush mounting back box : min. 16 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 00		1 gang – 1 way
1	7320 01		1 gang – 2 way
1	7320 05		1 gang – intermediate
1	7320 02		2 gang – 2 way
1	7320 03		3 gang – 2 way
		Nominal plate dimensions : 92 x 152 mm	
1	7320 04		4 gang – 2 way
1	7320 06		6 gang – 2 way

Pack	Cat. Nos.	**Single pole plate switches 20 AX - 250 V∿**	
		Conform to BS EN 60669-1 : 2000	
		Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7321 30		1 gang – 1 way
1	7321 31		1 gang – 2 way
1	7321 32		2 gang – 2 way
1	7321 33		3 gang – 2 way

Pack	Cat. Nos.	**Single pole push switch 10 A - 250 V∿**	
		Conforms to BS EN 60669-1 : 2000	
		Flush mounting back box : min. 16 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 07		1 gang – 2 way push switch

Pack	Cat. Nos.	**Dimmer units - 230 V∿**	
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015	
		Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
		Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer	
1	7320 46		1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7320 47		2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

		Dimmer units - 230 V∿ - electronic type	
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015	
		Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
		Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads	
1	7321 56		1 gang – 2 way 50 Hz 40 W-400 W push on/off rotary
1	7321 57		2 gang – 2 way 50 Hz 40 W-400 W push on/off rotary

		Isolator switch 10 A - 250 V∿ 3 pole	
		Conforms to BS EN 60669-2-4	
		White rocker with integrated padlockable safety block in OFF position Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 09		3 pole isolator switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
rope edge polished brass (continued)


7320 60


7320 70


7320 65


7320 75


7320 61


7320 71


7320 89


7320 59

Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos.	Double pole socket outlets 13 A - 250 V~
		Conform to BS 1363 - Part 2 : 1995
		Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm
1	7320 60	1 gang – switched
1	7320 61	1 gang – switched + red LED power indicator
		Nominal plate dimensions : 92 x 152 mm
1	7320 70	2 gang – switched
1	7320 71	2 gang – switched with red LED power indicator

Pack	Cat. Nos.	Unswitched socket outlets 13 A - 250 V~
		Conform to BS 1363 - Part 2 : 1995
		Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 1 gang - 92 x 92 mm 2 gang - 92 x 152 mm
1	7320 65	1 gang – unswitched
1	7320 75	2 gang – unswitched

Pack	Cat. Nos.	RCD sockets 13 A - 250 V~
		Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995
		Conventional earth pin release shutter Maximum operating current 16 A Incorporate a “test and reset” button Stainless steel plate with fixing screws (no rope edge detail) Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 146 mm
		Active : Electrical latching - trips on power failure
1	7320 97	RCD unit 2 gang DP 30 mA active
		Passive : Mechanical latching - does NOT trip on power failure
1	7320 98	RCD unit 2 gang DP 30 mA passive

Pack	Cat. Nos.	Socket outlets 15 A - 250 V~
		Conform to BS 546 : 1950
		Patented 3 pin safety shutter mechanism Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 92 x 92 mm
1	7320 88	1 gang – unswitched
1	7320 89	1 gang – switched

Pack	Cat. Nos.	Socket outlet 2 A - 250 V~
		Conforms to BS 546 : 1950
		Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm
1	7320 59	1 gang – unswitched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
rope edge polished brass (continued)


7320 68


7320 69


7320 90


7320 34

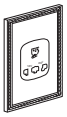

7320 31


7320 36


7320 32

Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos.	Socket outlets 5 A - 250 V~	
		Conform to BS 546 : 1950 Patented 3 pin safety shutter mechanism Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 68		1 gang – unswitched
1	7320 69		1 gang – switched

Pack	Cat. Nos.	Shaver socket	
		Conforms to BS EN 61558-2-5 :1998 IP 24 For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 152 x 92 mm	
1	7320 90		Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

Pack	Cat. Nos.	Fused connection units 13 A - 250 V~	
		Conform to BS 1363 - Part 4 : 1995 Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 34		Switched, DP
1	7320 35		Switched, DP with red LED power indicator
1	7320 36		Switched, DP with cord outlet
1	7320 37		Switched, DP with cord outlet + red LED power indicator
1	7320 30		Unswitched
1	7320 31		Unswitched with red LED power indicator
1	7320 32		Unswitched with cord outlet
1	7320 33		Unswitched with cord outlet + red LED power indicator

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
rope edge polished brass (continued)


7320 10


7320 14


7320 22


7320 16


7320 12


7320 23

Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors; matching decorative rockers (except where indicated)
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos.	Double pole switches 20 A - 250 V~	
		Conform to BS EN 60669-1 : 2000 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 10		20 A DP
1	7320 14		20 A DP with cord outlet
1	7320 16		20 A DP with cord outlet + red LED power indicator
1	7320 12		20 A DP + red LED power indicator

		Cable outlet 20 A - 250 V~	
		Conforms to BS 5733 : 1995 Stainless steel plate with fixing screws (no rope edge detail) Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm	
10	7320 19		20 A – with terminal block and outlet gland

Pack	Cat. Nos.	Double pole switches 45 A - 250 V~	
		Conform to BS EN 60669-1 : 2000 Red rocker Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 92 x 92 mm	
1	7320 22		45 A DP
1	7320 23		45 A DP + red LED power indicator

		Cable outlet 45 A - 250 V~	
		Conforms to BS 5733 : 1995 2 piece design for safety Stainless steel plate with fixing screws (no rope edge detail) Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 86 mm	
5	7320 26		45 A – with terminal block

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
rope edge polished brass (continued)


7320 40


7320 42


7320 56


7320 57


7320 43


7320 50


7320 95


7320 96

Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors
Terminal screws captive and backed off ready for cabling

TV, radio and satellite sockets

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 92 x 92 mm

Pack	Cat. Nos.	
1	7320 40	Screened TV – single, male Non-isolated
1	7320 41	Screened satellite – single, 'F' type
1	7320 42	Screened TV + FM Isolated
1	7320 43	Screened TV + FM + satellite, 'F' type

Telephone sockets

Shuttered
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 92 x 92 mm

Pack	Cat. Nos.	
1	7320 50	Single master
1	7320 51	Single secondary
1	7320 54	Single RJ11/12

Data sockets

CAT 6 compliant
UTP
Rapid cable connection

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 92 x 92 mm

Pack	Cat. Nos.	
1	7320 56	RJ45 – single
1	7320 57	RJ45 – double

Accessories

Blanking plates

1	7320 95	1 gang - 92 x 92 mm
1	7320 96	2 gang - 92 x 152 mm

Outlet plate - VDI/low voltage

1	7320 52	1 gang - 92 x 92 mm with cable clamp and outlet gland

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

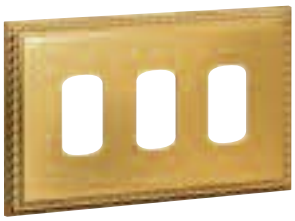
Synergy®
rope edge polished brass (continued)


7320 92

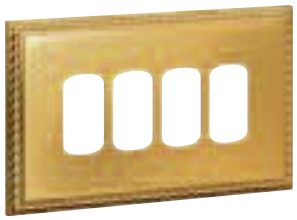

7320 93


7320 94


7321 91


7321 93

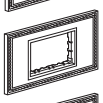
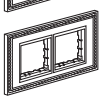

7321 92


7321 94

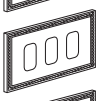
Front plate : clip on electroplated polished die cast plate with electrophoretic applied gloss brass lacquer; anthracite interiors
Terminal screws captive and backed off ready for cabling

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Carrier plates for Mosaic modules

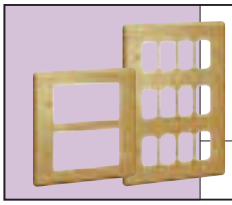
Pack	Cat. Nos.	No additional yoke required	
1	7320 91		1 gang - 92 x 92 mm 1 Mosaic module
1	7320 92		1 gang - 92 x 92 mm 2 Mosaic modules
1	7320 93		2 gang - 92 x 152 mm 3 Mosaic modules
1	7320 94		2 gang - 92 x 152 mm 4 Mosaic modules

1 and 2 gang plates for grid modules

Pack	Cat. Nos.	For yokes, see below	
1	7321 91		1 gang - 92 x 92 mm 1 small aperture module
1	7321 92		1 gang - 92 x 92 mm 2 small aperture modules
1	7321 93		2 gang - 92 x 152 mm 3 small aperture modules
1	7321 94		2 gang - 92 x 152 mm 4 small aperture modules

1 and 2 gang yokes for grid modules

Pack	Cat. Nos.		
10	7354 81		1 gang 1/2 module
10	7354 82		2 gang 3/4 modules



For complete range of grid front plates and modules

see p. 76-94

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional


7330 00


7332 02


7334 00


7334 07


7330 06


7332 07


7334 02


7334 06

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Single pole plate switches 10 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 00	7332 00	1 gang – 1 way
1	7330 01	7332 01	1 gang – 2 way
1	7330 05	7332 05	1 gang – intermediate
1	7330 02	7332 02	2 gang – 2 way
1	7330 03	7332 03	3 gang – 2 way

Nominal plate dimensions : 86 x 146 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 04	7332 04	4 gang – 2 way
1	7330 06	7332 06	6 gang – 2 way

Single pole plate switches 10 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 or 86 x 146 mm

Pack	Satin brass	
1	7334 00	1 gang – 1 way
1	7334 01	1 gang – 2 way
1	7334 05	1 gang – intermediate
1	7334 02	2 gang – 2 way
1	7334 03	3 gang – 2 way

Nominal plate dimensions : 86 x 146 mm

Pack	Satin brass	
1	7334 04	4 gang – 2 way
1	7334 06	6 gang – 2 way

Single pole plate switches 20 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7331 31	7333 31	1 gang – 2 way
1	7331 32	7333 32	2 gang – 2 way
1	7331 33	7333 33	3 gang – 2 way

Single pole plate switches 20 AX - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 or 86 x 146 mm

Pack	Satin brass	
1	7335 31	1 gang – 2 way
1	7335 32	2 gang – 2 way
1	7335 33	3 gang – 2 way

Single pole push switches 10 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 07	7332 07	1 gang – 2 way push switch

Single pole push switch 10 A - 250 V~

Conforms to BS EN 60669-1 : 2000
Flush mounting back box : min. 16 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Satin brass	
1	7334 07	1 gang – 2 way push switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 46


7332 47


7334 46


7334 47


7330 09


7332 09


7335 57


7334 09

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Dimmer units - 230 V~

Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
Not suitable for fluorescent load
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm
Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 46	7332 46	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7330 47	7332 47	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

Dimmer units - 230 V~

Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
Rotary dimming and push on/off
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm
Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer

Pack	Satin brass	
1	7334 46	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7334 47	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

Dimmer units - 230 V~ - electronic type

Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
Not suitable for fluorescent load
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm
Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7331 56	7333 56	1 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary
1	7331 57	7333 57	2 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary

Dimmer units - 230 V~ - electronic type

Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
Not suitable for fluorescent load
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm
Dimmers for use with tungsten filament lamps, good quality wire-wound transformers for low voltage loads

Pack	Satin brass	
1	7335 56	1 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary
1	7335 57	2 gang – 2 way 50-60 Hz 40 W-400 W push on/off rotary

Isolator switches 10 A - 250 V~ 3 pole

Conform to BS EN 60669-2-4
With integrated padlockable safety block in OFF position
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 09	7332 09	3 pole isolator switch

Isolator switch 10 A - 250 V~ 3 pole

Conforms to BS EN 60669-2-4
With integrated padlockable safety block in OFF position
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Satin brass	
1	7334 09	3 pole isolator switch

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 70


7332 61

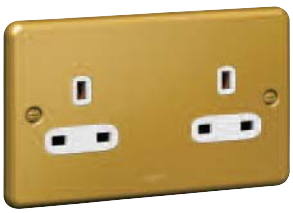

7334 60


7334 61


7330 71


7332 74


7334 70


7334 75

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Double pole socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 60	7332 60	1 gang – switched
1	7330 61	7332 61	1 gang – switched + red LED power indicator

Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 70	7332 70	2 gang – switched
1	7330 71	7332 71	2 gang – switched + red LED power indicator
1	7330 74	7332 74	2 gang – switched outboard for standard and clean earth applications

Double pole socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Satin brass	
1	7334 60	1 gang – switched
1	7334 61	1 gang – switched + red LED power indicator

Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos. Satin brass	
1	7334 70	2 gang – switched
1	7334 71	2 gang – switched + red LED power indicator
1	7334 74	2 gang – switched outboard for standard and clean earth applications

Unswitched socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions :
1 gang : 86 x 86 mm
2 gang : 86 x 146 mm

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 65	7332 65	1 gang – unswitched
1	7330 75	7332 75	2 gang – unswitched

Unswitched socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions :
1 gang : 86 x 86 mm
2 gang : 86 x 146 mm

Pack	Cat. Nos. Satin brass	
1	7334 65	1 gang – unswitched
1	7334 75	2 gang – unswitched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 97


7332 97


7334 97


7334 88


7330 89


7332 59


7334 89

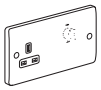

7334 59

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Key switched socket 13 A - 250 V~

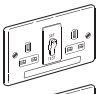
Conform to BS 1363 - part 2 : 1995
Patented 3 pin safety shutter mechanism
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 146 mm

Pack	Brushed	Polished	
1	8200 71	8200 72	 2 gang single socket with DP key switch

RCD sockets 13 A - 250 V~

Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995
Conventional earth pin release shutter
Maximum operating current 16 A
Incorporate a “test and reset” button
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 146 mm

Stainless steel

Pack	Brushed	Polished	
1	7330 97	7332 97	 RCD unit 2 gang DP 30 mA active – trips on power failure
1	7330 98	7332 98	 RCD unit 2 gang DP 30 mA passive – does NOT trip on power failure

Socket outlets 15 A - 250 V~

Conform to BS 546 : 1950
Patented 3 pin safety shutter mechanism
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Stainless steel

Pack	Brushed	Polished	
1	7330 88	7332 88	 1 gang – unswitched
1	7330 89	7332 89	 1 gang – switched

Socket outlets 2 A - 250 V~

Conform to BS 546 : 1950
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

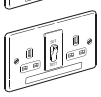
Stainless steel

Pack	Brushed	Polished	
1	7330 59	7332 59	 1 gang – unswitched

RCD sockets 13 A - 250 V~

Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995
Conventional earth pin release shutter
Maximum operating current 16 A
Incorporate a “test and reset” button
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 146 mm

Satin brass

Pack		
1	7334 97	 RCD unit 2 gang DP 30 mA active – trips on power failure
1	7334 98	 RCD unit 2 gang DP 30 mA passive – does NOT trip on power failure

Socket outlets 15 A - 250 V~

Conform to BS 546 : 1950
Patented 3 pin safety shutter mechanism
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Satin brass

Pack		
1	7334 88	 1 gang – unswitched
1	7334 89	 1 gang – switched

Socket outlet 2 A - 250 V~

Conforms to BS 546 : 1950
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Satin brass

Pack		
1	7334 59	 1 gang – unswitched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 68


7330 69


7330 90


7334 68


7334 69


7334 90

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos.	Socket outlets 5 A - 250 V~	
	Stainless steel Brushed / Polished	Conform to BS 546 : 1950 Patented 3 pin safety shutter mechanism Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm	
1	7330 68 / 7332 68		1 gang – unswitched
1	7330 69 / 7332 69		1 gang – switched

Pack	Cat. Nos.	Socket outlets 5 A - 250 V~	
	Satin brass	Conform to BS 546 : 1950 Patented 3 pin safety shutter mechanism Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm	
1	7334 68		1 gang – unswitched
1	7334 69		1 gang – switched

		Shaver sockets	
	Stainless steel Brushed / Polished	Conform to BS EN 61558-2-5 : 1998 IP 24 For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 146 x 86 mm	
1	7330 90 / 7332 90		Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

		Shaver socket	
	Satin brass	Conforms to BS EN 61558-2-5 : 1998 IP 24 For use with European, British, American and Australian 2 pin plugs Screwless live and neutral terminals Double wound isolating transformer Automatic self-resetting overload feature Plug insertion operates microswitch which energises transformer Flush mounting back box : min. 47 mm deep Nominal plate dimensions : 146 x 86 mm	
1	7334 90		Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 37


7332 36


7334 34


7334 37


7330 12


7332 10


7334 30


7334 12

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Fused connection units 13 A - 250 V~

Conform to BS 1363 - Part 4 : 1995
Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 34	7332 34	Switched, DP
1	7330 35	7332 35	Switched, DP with red LED power indicator
1	7330 36	7332 36	Switched, DP with cord outlet
1	7330 37	7332 37	Switched, DP with cord outlet + red LED power indicator
1	7330 30	7332 30	Unswitched
1	7330 31	7332 31	Unswitched with red LED power indicator
1	7330 32	7332 32	Unswitched with cord outlet
1	7330 33	7332 33	Unswitched with cord outlet + red LED power indicator

Fused connection units 13 A - 250 V~

Conform to BS 1363 - Part 4 : 1995
Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Satin brass	
1	7334 34	Switched, DP
1	7334 35	Switched, DP with red LED power indicator
1	7334 36	Switched, DP with cord outlet
1	7334 37	Switched, DP with cord outlet + red LED power indicator
1	7334 30	Unswitched
1	7334 31	Unswitched with red LED power indicator
1	7334 32	Unswitched with cord outlet
1	7334 33	Unswitched with cord outlet + red LED power indicator

Double pole switches 20 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 10	7332 10	20 A DP
1	7330 14	7332 14	20 A DP with cord outlet
1	7330 16	7332 16	20 A DP with cord outlet + red LED power indicator
1	7330 12	7332 12	20 A DP with red LED power indicator

Double pole switches 20 A - 250 V~

Conform to BS EN 60669-1 : 2000
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos. Satin brass	
1	7334 10	20 A DP
1	7334 14	20 A DP with cord outlet
1	7334 16	20 A DP with cord outlet + red LED power indicator
1	7334 12	20 A DP with red LED power indicator

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 22


7332 22


7334 23


7334 20


7330 23


7332 29


7334 29

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Cable outlets 20 A - 250 V~

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 19	7332 19	Conform to BS 5733 : 1995 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm 20 A – with terminal block and outlet gland

Cable outlet 20 A - 250 V~

Pack	Cat. Nos. Satin brass	
1	7334 19	Conforms to BS 5733 : 1995 Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm 20 A – with terminal block and outlet gland

Double pole switches 45 A - 250 V~

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
			Conform to BS EN 60669-1 : 2000 Red rocker Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 146 x 86 mm
1	7330 20	7332 20	45 A DP
1	7330 21	7332 21	45 A DP with red LED power indicator
			Nominal plate dimensions : 86 x 86 mm
1	7330 22	7332 22	45 A DP
1	7330 23	7332 23	45 A DP with red LED power indicator

Double pole switches 45 A - 250 V~

Pack	Cat. Nos. Satin brass	
		Conform to BS EN 60669-1 : 2000 Red rocker Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 146 x 86 mm
1	7334 20	45 A DP
1	7334 21	45 A DP with red LED power indicator
		Nominal plate dimensions : 86 x 86 mm
1	7334 22	45 A DP
1	7334 23	45 A DP with red LED power indicator

Cooker control units

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
			Conform to BS 4177 : 1992 45 A - 250 V~ DP switch with 13 A - 250 V~ DP switched socket outlet Red rocker Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 146 mm
1	7330 28	7332 28	DP with DP switched socket
1	7330 29	7332 29	DP with DP switched socket + red LED power indicators

Cooker control units

Pack	Cat. Nos. Satin brass	
		Conform to BS 4177 : 1992 45 A - 250 V~ DP switch with 13 A - 250 V~ DP switched socket outlet Red rocker Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 146 mm
1	7334 28	DP with DP switched socket
1	7334 29	DP with DP switched socket + red LED power indicators

Cable outlets 45 A - 250 V~

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	
1	7330 26	7332 26	Conform to BS 5733 : 1995 2 piece design for safety Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 86 mm 45 A – with terminal block

Cable outlet 45 A - 250 V~

Pack	Cat. Nos. Satin brass	
1	7334 26	Conforms to BS 5733 : 1995 2 piece design for safety Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 86 x 86 mm 45 A – with terminal block

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 43


7332 42


7334 42


7334 43


7330 50


7332 57


7334 50


7334 57

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

TV, radio and satellite sockets

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 40	7332 40	Screened TV – single, male Non-isolated
1	7330 41	7332 41	Screened satellite – single, 'F' type
1	7330 42	7332 42	Screened TV + FM Isolated
1	7330 43	7332 43	Screened TV + FM + satellite, 'F' type
1	7330 45	7332 45	Quad outlet, TV, radio + 2 satellite + TV return with secondary telephone outlet(1)

TV, radio and satellite sockets

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Satin brass	
1	7334 40	Screened TV – single, male Non-isolated
1	7334 41	Screened satellite – single, 'F' type
1	7334 42	Screened TV + FM Isolated
1	7334 43	Screened TV + FM + satellite, 'F' type
1	7334 45	Quad outlet, TV, radio + 2 satellite + TV return with secondary telephone outlet(1)

Telephone sockets

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 50	7332 50	Single master
1	7330 51	7332 51	Single secondary

Telephone sockets

Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Satin brass	
1	7334 50	Single master
1	7334 51	Single secondary

Data sockets

CAT 6 compliant
UTP
Rapid cable connection
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Stainless steel Brushed	Stainless steel Polished	
1	7330 56	7332 56	RJ45 – single
1	7330 57	7332 57	RJ45 – double

Data sockets

CAT 6 compliant
UTP
Rapid cable connection
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Satin brass	
1	7334 56	Data outlet RJ45 – single
1	7334 57	Data outlet RJ45 – double

(1) Stainless steel plate with fixing screws

(1) Stainless steel plate with fixing screws

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7330 95


7332 96


7334 95


7334 52


7330 91


7332 94


7334 92


7334 93

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	Accessories
			Blanking plates
1	7330 95	7332 95	1 gang - 86 x 86 mm
1	7330 96	7332 96	2 gang - 86 x 146 mm
			Outlet plates - VDI/low voltage
1	7330 52	7332 52	1 gang - 86 x 86 mm with cable clamp and outlet gland
			Carrier plates for Mosaic modules
			No additional yoke required
1	7330 91	7332 91	1 gang - 86 x 86 mm 1 Mosaic module
1	7330 92	7332 92	1 gang - 86 x 86 mm 2 Mosaic modules
1	7330 93	7332 93	2 gang - 86 x 146 mm 3 Mosaic modules
1	7330 94	7332 94	2 gang - 86 x 146 mm 4 Mosaic modules

Pack	Cat. Nos. Satin brass	Accessories
		Blanking plates
1	7334 95	1 gang - 86 x 86 mm
1	7334 96	2 gang - 86 x 146 mm
		Outlet plate - VDI/low voltage
1	7334 52	1 gang - 86 x 86 mm with cable clamp and outlet gland
		Carrier plates for Mosaic modules
		No additional yoke required
1	7334 91	1 gang - 86 x 86 mm 1 Mosaic module
1	7334 92	1 gang - 86 x 86 mm 2 Mosaic modules
1	7334 93	2 gang - 86 x 146 mm 3 Mosaic modules
1	7334 94	2 gang - 86 x 146 mm 4 Mosaic modules

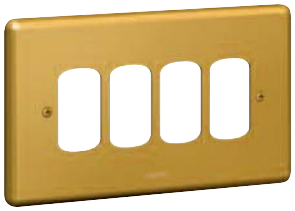
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
traditional (continued)


7331 91


7333 93


7335 91


7335 93


7354 90


7354 91


7354 92

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Brushed stainless steel front plates : brushed stainless steel with clear epoxy satin lacquer coating
Polished stainless steel front plates : electroplated stainless steel plate with trivalent chrome for mirror finish
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Stainless steel Brushed	Cat. Nos. Stainless steel Polished	1 and 2 gang front plates for grid modules
			For yokes, see below
1	7331 91	7333 91	1 gang - 86 x 86 mm 1 small aperture module
1	7331 92	7333 92	1 gang 2 small aperture modules
1	7331 93	7333 93	2 gang - 86 x 146 mm 3 small aperture modules
1	7331 94	7333 94	2 gang - 86 x 146 mm 4 small aperture modules

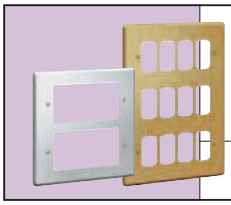
Pack	Cat. Nos.	1 and 2 gang yokes for grid modules
10	7354 90	1 gang 1 module
10	7354 91	1 gang 2 modules
10	7354 92	2 gang 3/4 modules

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Satin brass front plates : electroplated stainless steel electrophoretic applied brass lacquer
Terminal screws captive and backed off ready for cabling

Pack	Cat. Nos. Satin brass	1 and 2 gang plates for grid modules
		For yokes, see below
1	7335 91	1 gang - 86 x 86 mm 1 small aperture module
1	7335 92	1 gang - 86 x 86 mm 2 small aperture modules
1	7335 93	2 gang - 86 x 146 mm 3 small aperture modules
1	7335 94	2 gang - 86 x 146 mm 4 small aperture modules

Pack	Cat. Nos.	1 and 2 gang yokes for grid modules
10	7354 90	1 gang 1 module
10	7354 91	1 gang 2 modules
10	7354 92	2 gang 3/4 modules



For complete range of grid front plates and modules

see p. 76-94

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
metalclad


7338 00


7338 02


7338 70


7338 65


7338 03

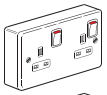
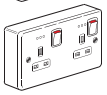

7338 61

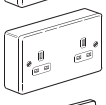
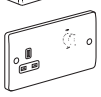

7338 71

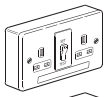
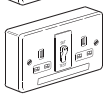

7338 89

Finish : grey epoxy coated steel
Terminal screws captive and backed off ready for cabling
Supplied complete with close fit surface mounting back box

Pack	Cat. Nos.	Single pole plate switches 10 AX - 250 V~	
		Conform to BS EN 60669-1 : 2000	
		Nominal dimensions : 86 x 86 x 43 mm	
5	7338 00		1 gang – 1 way
5	7338 01		1 gang – 2 way
5	7338 05		1 gang – intermediate
5	7338 02		2 gang – 2 way
5	7338 03		3 gang – 2 way

Pack	Cat. Nos.	Double pole socket outlets 13 A - 250 V~	
		Conform to BS 1363 - Part 2 : 1995	
		Patented 3 pin safety shutter mechanism 2 earth terminals Nominal dimensions : 86 x 86 x 43 mm	
5	7338 60		1 gang – switched
5	7338 61		1 gang – switched + red LED power indicator
		Nominal dimensions : 86 x 146 x 43 mm	
5	7338 70		2 gang – switched
5	7338 71		2 gang – switched + red LED power indicator

Pack	Cat. Nos.	Unswitched and Key switched socket outlets 13 A - 250 V~	
		Conform to BS 1363 - Part 2 : 1995	
		Patented 3 pin safety shutter mechanism 2 earth terminals Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 1 gang - 86 x 86 mm 2 gang - 86 x 146 mm	
10	7338 65		1 gang – unswitched
5	7338 75		2 gang – unswitched
1	8200 73		2 gang single socket with DP key switch

Pack	Cat. Nos.	RCD sockets 13 A - 250 V~	
		Conform to BS 7288 : 1990 and BS 1363 - Part 2 : 1995	
		Conventional earth pin release shutter Maximum operating current 16 A Incorporate a “test and reset” button Nominal dimensions : 86 x 146 x 43 mm	
1	7338 97		RCD unit 2 gang DP 30 mA active – trips on power failure
1	7338 98		RCD unit 2 gang DP 30 mA passive – does NOT trip on power failure

Pack	Cat. Nos.	Socket outlets 15 A - 250 V~	
		Conform to BS 546 : 1950	
		Patented 3 pin safety shutter mechanism Nominal dimensions : 86 x 86 x 43 mm	
5	7338 88		1 gang – unswitched
5	7338 89		1 gang – switched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
metalclad (continued)


7338 34


7338 37


7338 12


7338 21


7338 31


7338 32


7338 19

Finish : grey epoxy coated steel
Terminal screws captive and backed off ready for cabling
Supplied complete with close fit surface mounting back box

Fused connection units 13 A - 250 V~

Conform to BS 1363 - Part 4 : 1995
Fused 13 A (fuse supplied)
Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 34		Switched, DP
5	7338 35		Switched, DP with red LED power indicator
5	7338 36		Switched, DP with cord outlet
5	7338 37		Switched, DP with cord outlet + red LED power indicator
5	7338 30		Unswitched
5	7338 31		Unswitched with red LED power indicator
5	7338 32		Unswitched with cord outlet
5	7338 33		Unswitched with cord outlet + red LED power indicator

Double pole switches 20 A - 250 V~

Conform to BS EN 60669-1 : 2000
Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 10		20 A DP
5	7338 14		20 A DP with cord outlet
5	7338 16		20 A DP with cord outlet + red LED power indicator
5	7338 12		20 A DP + red LED power indicator

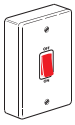
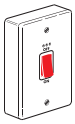
Cable outlet 20 A - 250 V~

Conforms to BS 5733 : 1995
Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 19		20 A – with terminal block and outlet gland

Double pole switches 45 A - 250 V~

Conform to BS EN 60669-1 : 2000
Red rocker
Nominal dimensions : 146 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 20		45 A DP
5	7338 21		45 A DP + red LED power indicator

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
metalclad (continued)


7338 40


7338 41


7338 56


7338 57


7338 50


7338 95


7338 96

Finish : grey epoxy coated steel
Terminal screws captive and backed off ready for cabling
Supplied complete with close fit surface mounting back box

TV, radio and satellite sockets

Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 40		Screened TV – single, male Non-isolated
1	7338 41		Screened satellite – single, 'F' type

Telephone sockets

Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
5	7338 50		Single master
5	7338 51		Single secondary

Data sockets

CAT 6 compliant
Rapid cable connection
Nominal dimensions : 86 x 86 x 43 mm

Pack	Cat. Nos.		
1	7338 56		RJ45 – single
1	7338 57		RJ45 – double

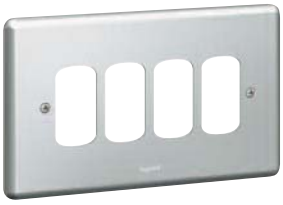
Blanking plates

Pack	Cat. Nos.		
5	7338 95		1 gang - 86 x 86 mm
5	7338 96		2 gang - 86 x 146 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
metalclad (continued)


7338 92


7339 94


7364 00


7354 90


7354 92


7364 01

Grid selection charts (p. 80-82)
Grid modules (p. 76-77)
Mosaic modules (p. 86-94)

Carrier plates for Mosaic modules

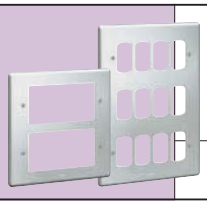
Pack	Cat. Nos.	
		No additional yoke required
5	7338 91	1 gang - 86 x 86 mm 1 Mosaic module
5	7338 92	1 gang - 86 x 86 mm 2 Mosaic modules
5	7338 93	2 gang - 86 x 146 mm 3 Mosaic modules
5	7338 94	2 gang - 86 x 146 mm 4 Mosaic modules

1 and 2 gang plates for grid modules

Pack	Cat. Nos.	
		For yokes, see below
1	7339 91	1 gang - 86 x 86 mm 1 small aperture module
1	7339 92	1 gang - 86 x 86 mm 2 small aperture modules
1	7339 93	2 gang - 86 x 146 mm 3 small aperture modules
1	7339 94	2 gang - 86 x 146 mm 4 small aperture modules

1 and 2 gang yokes for grid modules

Pack	Cat. Nos.	
10	7354 90	1 gang 1 module
10	7354 91	1 gang 2 modules
10	7354 92	2 gang 3/4 modules



For complete range of grid front plates and modules

see p. 76-94

Surface mounting metal boxes

Suitable for use with Synergy metalclad, traditional and Synergy grid system metal plates
Conform to BS 5733 where applicable
Material : grey epoxy coated steel

Depth 37 mm

Pack	Cat. Nos.	
		Dimensions : 86 x 86 mm
30	7364 00	1 gang With knockouts
30	7364 20	1 gang Without knockouts
		Dimensions : 86 x 146 mm
20	7364 01	2 gang With knockouts
20	7364 21	2 gang Without knockouts
		Dimensions : 146 x 146 mm
1	7364 18	6/8 module grid With knockouts
1	7364 22	6/8 module grid Without knockouts
		Dimensions : 207 x 146 mm
1	7364 28	9/12 module grid With knockouts
1	7364 32	9/12 module grid Without knockouts

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Complete choice, ultimate flexibility

SYNERGY® GRID



Grid plates are available in the complete range of Synergy finishes and in sizes from 1 to 24 gang.

A vast choice of function modules, matching rockers and a selection of rocker markings make this a simple, flexible solution for both residential and commercial applications.

SYNERGY® AND MOSAIC™ MODULES



In addition to the standard range of grid plates and accessories, Synergy also gives users the opportunity to benefit from the immense selection of functions in the Mosaic range of modular wiring devices...

Unrivalled versatility without compromising on style.





Synergy®
grid modules


7354 00


7355 01


7354 11


7355 17

Modules mount from front into grid yokes
Individually removable without disturbing grid

Single pole switch modules 10 AX - 250 V~

Conform to BS EN 60669-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 00	7355 00	1 way switch
10	7354 01	7355 01	1 way switch + power indicator
10	7354 03	7355 03	2 way switch
10	7354 07	7355 07	Intermediate

Single pole switch modules 20 AX - 250 V~

Conform to BS EN 60669-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 10	7355 10	1 way switch
10	7354 11	7355 11	1 way switch + power indicator
10	7354 12	7355 12	2 way switch
10	7354 13	7355 13	2 way centre off(1)
10	7354 14	7355 14	2 way retractive centre off(1)
10	7354 14AR	7355 14AR	2 way retractive centre off marked with up + down arrows(1)
10	7354 15	7355 15	2 way push switch(1)
10	7354 18	7355 18	Intermediate

Single pole push switch modules 10 A - 250 V~

Conform to BS EN 60669-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 05	7355 05	2 way push switch
10	7354 05PE	7355 05PE	2 way push switch marked "PRESS TO EXIT"
10	7354 06	7355 06	2 way push switch marked "BELL"

Single pole key switch modules 20 AX - 250 V~

Conform to BS EN 60669-1
Key supplied

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 16	7355 16	2 way key switch
10	7354 17	7355 17	2 way key switch retractive centre off(1)
10	7354 19	7355 19	Intermediate

(1) 20 A rated only

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy®
grid modules (continued)


7354 21


7355 48


7350 30


7351 62


7352 56


7355 41


7352 65


7355 35

Modules mount from front into grid yokes
Individually removable without disturbing grid

Double pole switch modules 20 AX - 250 V~

Conform to BS EN 60669-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 20	7355 20	Switch
10	7354 21	7355 21	Switch + red LED power indicator
10	7354 22	7355 22	Push to make(1)
10	7354 25	7355 25	Push to break(1)

Double pole key switch modules 20 AX - 250 V~

Conform to BS EN 60669-1
Key supplied

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7354 23	7355 23	Key switch
10	7354 23ET	7355 23ET	Key switch marked "EMERGENCY LIGHT TEST"
10	7354 24	7355 24	Key switch + red LED power indicator

Spare key

Pack	Cat. Nos.	
5	0811 77	Spare key for Synergy key switch functions

Dimmer unit modules 100 - 240 V~ 50/60 Hz

Conform to BS EN 60669-2-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
1	7354 46	7355 46	Multi-way dimmer for use with tungsten filament lamps, good quality wire-wound transformers and compatible electronic transformers for low voltage loads(2) 40 - 300 W

Not suitable for fluorescent loads

Dimmer unit modules - dimmable HF ballast fluorescent 100 - 240 V~ 50/60 Hz

Conform to BS EN 60669-2-1

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
1	7354 48	7355 48	1 way dimmer for dimmable HF ballast fluorescent 0-10 V 400 W

Time delay switch 100 - 240 V~ 50/60 Hz

Conform to BS EN 60669-2-3

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
1	7354 47	7355 47	Multiple way soft start time delay switch Push operated delay pre-set for 3, 10 or 30 minutes 40 - 300 W

Not suitable for fluorescent loads

Fuse carrier modules 13 A - 250 V~

Conform to BS 5733

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7350 30	7351 30	Fuse module fitted with BS 1362 13 A fuse

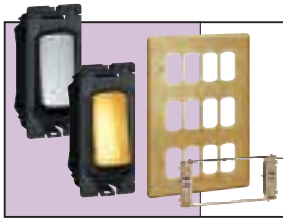
Indicator modules - 250 V~

Conform to BS 5733

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
10	7350 60	7351 60	Indicator - red LED
10	7350 62	7351 62	Indicator - green LED

Ancillary modules

Pack	Cat. Nos. White	Cat. Nos. Anthracite	
1	7354 50	7355 50	Telephone socket - single master
1	7354 51	7355 51	Telephone socket - single secondary
10	7352 56	7353 56	RJ 45 data outlet CAT 6 compliant Rapid cable connection UTP 8 contact
10	7354 40	7355 40	Screened TV - single Non-isolated
10	7354 41	7355 41	Screened satellite
10	7352 65	7353 65	Hi-fi outlet
1	7354 35	7355 35	Cable outlet
20	7354 36	7355 36	Blank module



For decorative rockers and complete range of grid front plates and yokes

see p. 78 and 80-81

(1) 20 A rated only
(2) Can be used in conjunction with compatible electronic transformers for low voltage loads. It will be necessary to test that the dimmer mechanism is compatible with the electronic transformer identified for installation

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy® grid system

decorative rockers and rocker markings

DECORATIVE ROCKERS TO MATCH SYNERGY MODERN AND ROPE EDGE BRASS RANGES

DECORATIVE ROCKERS		MODERN SILVER	MODERN NICKEL	MODERN MATT BLACK	MODERN BLACK NICKEL	ROPE EDGE BRASS
						
FUNCTIONS	Pack					
10 AX switch 1 x 1 way	10	7355 00MS	7355 00MN	–	–	7355 00RB
10 AX switch 1 x 2 way	10	7355 03MS	7355 03MN	–	–	7355 03RB
10 AX switch 1 x intermediate	10	7355 07MS	7355 07MN	–	–	7355 07RB
10 A push switch 1 x 2 way	10	7355 05MS	7355 05MN	–	–	7355 05RB
20 AX SP switch 1 way	10	7355 10MS	7355 10MN	–	–	7355 10RB
20 AX SP switch 2 way	10	7355 12MS	7355 12MN	7399 04	7397 04	7355 12RB
20 AX SP switch 2 way centre off	10	7355 13MS	7355 13MN	7399 05	7397 05	7355 13RB
20 AX SP switch 2 way retractive centre off	10	7355 14MS	7355 14MN	7399 06	7397 06	7355 14RB
20 AX SP push switch 2 way	10	7355 15MS	7355 15MN	7399 07	7397 07	7355 15RB
20 AX SP intermediate switch	10	7355 18MS	7355 18MN	7399 08	7397 08	7355 18RB
20 AX DP switch	10	7355 20MS	7355 20MN	7399 09	7397 09	7355 20RB
20 AX DP push to make switch	10	7355 22MS	7355 22MN	7399 10	7397 10	7355 22RB
20 AX DP push to break switch	10	7355 25MS	7355 25MN	7357 25	7358 25	7355 25RB

GRID MODULES WITH STANDARD APPLIANCE MARKINGS

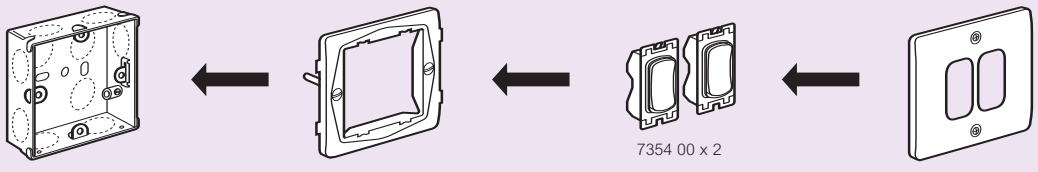
MODULES		20 AX DP SWITCH		20 AX DP SWITCH + POWER INDICATOR	
		White	Anthracite	White	Anthracite
					
ROCKER MARKINGS	Pack				
BOILER	10	7354 20BL	7355 20BL	7354 21BL	7355 21BL
COOKER HOOD	10	7354 20CH	7355 20CH	7354 21CH	7355 21CH
DISH WASHER	10	7354 20DW	7355 20DW	7354 21DW	7355 21DW
EXTRACTOR	10	7354 20EX	7355 20EX	7354 21EX	7355 21EX
EXTRACTOR FAN	10	7354 20EF	7355 20EF	7354 21EF	7355 21EF
EXTRACTOR HOOD	10	7354 20EH	7355 20EH	7354 21EH	7355 21EH
FAN	10	7354 20FN	7355 20FN	7354 21FN	7355 21FN
FREEZER	10	7354 20FZ	7355 20FZ	7354 21FZ	7355 21FZ
FRIDGE	10	7354 20FR	7355 20FR	7354 21FR	7355 21FR
FRIDGE FREEZER	10	7354 20FF	7355 20FF	7354 21FF	7355 21FF
HEATER	10	7354 20HR	7355 20HR	7354 21HR	7355 21HR
HOB	10	7354 20HB	7355 20HB	7354 21HB	7355 21HB
HOOD	10	7354 20HD	7355 20HD	7354 21HD	7355 21HD
LIGHTS	10	7354 20LG	7355 20LG	7354 21LG	7355 21LG
MICROWAVE	10	7354 20MW	7355 20MW	7354 21MW	7355 21MW
OVEN	10	7354 20OV	7355 20OV	7354 21OV	7355 21OV
PLINTH HEATER	10	7354 20PH	7355 20PH	7354 21PH	7355 21PH
TOWEL RAIL	10	7354 20TR	7355 20TR	7354 21TR	7355 21TR
TUMBLE DRYER	10	7354 20TD	7355 20TD	7354 21TD	7355 21TD
WASHING MACHINE	10	7354 20WM	7355 20WM	7354 21WM	7355 21WM
WASTE DISPOSAL	10	7354 20WD	7355 20WD	7354 21WD	7355 21WD
WATER HEATER	10	7354 20WH	7355 20WH	7354 21WH	7355 21WH

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

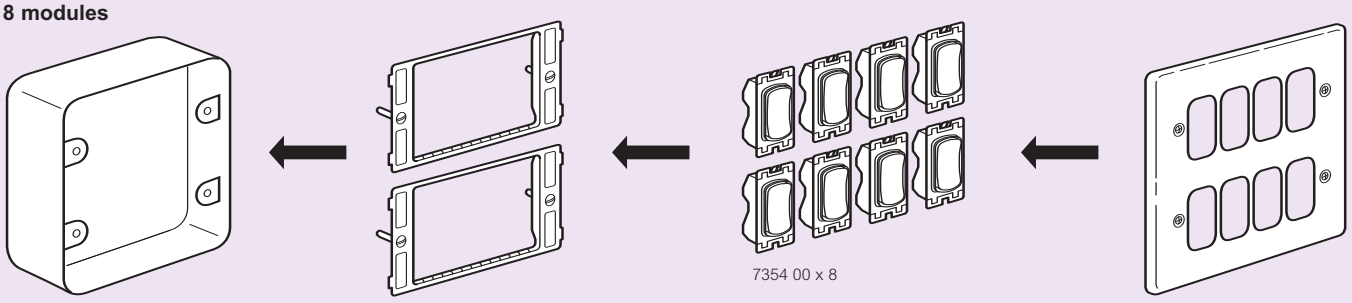
Synergy® grid system
for Synergy modules

■ Flush mounting installation examples

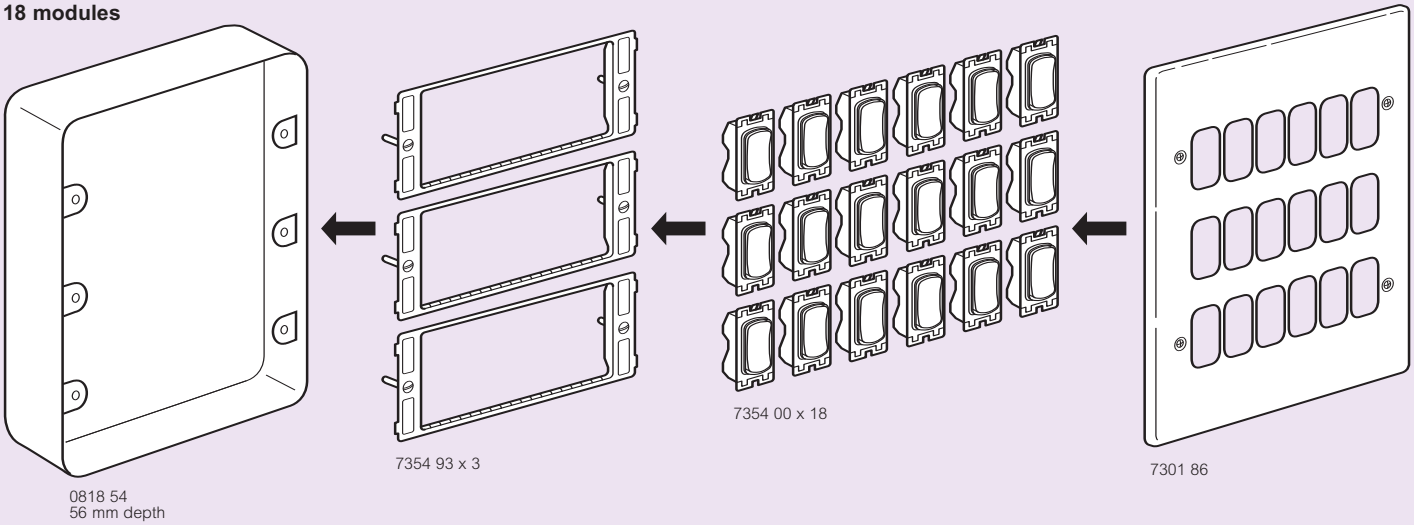
2 modules



8 modules



18 modules



■ Surface mounting

Surface mounting of Synergy grid modules using components illustrated above

	1/2 modules	3/4 modules	6/8 modules	9/12 modules
Box dimensions	86 x 86 x 37	86 x 146 x 37	146 x 146 x 37	207 x 146 x 37
Surface box (no knockouts)	7364 00	7364 01	7364 18	7364 28
Surface box (with knockouts)	7364 20	7364 21	7364 22	7364 32

■ Clip-on plates (1-4 modules)

Grids required for clip-on plates differ from grids for screw-attached faceplates
Grids required for Modern and Rope Edge are Cat. Nos. 7354 81 (1/2 modules) and 7354 82 (3/4 modules)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Synergy® grid system

GRID MODULES	ARCHITRAVES				FRONT PLATES WITH SMALL APERTURES								FRONT PLATES WITH SMALL APERTURES									
	1 gang		2 gang		1 gang				2 gang				2 x 2 gang				3 x 2 gang				3 x 3 gang		4 x 3 gang	
FRONT PLATES	1 module		2 modules		1 module		2 modules		3 modules		4 modules		6 modules		8 modules		9 modules		12 modules		18 modules		24 modules	
	Pack		Pack		Pack		Pack		Pack		Pack		Pack		Pack		Pack		Pack		Pack		Pack	
Dimensions (mm)	86 x 36		146 x 36		86 x 86		86 x 86		86 x 146		86 x 146		146 x 146		146 x146		207 x 146		207 x 146		267 x 206		267 x 206	
White	10	7301 80	10	7301 81	10	7301 91	10	7301 92	10	7301 93	10	7301 94	10	7301 82	10	7301 83	1	7301 84	1	7301 85	1	7301 86	1	7301 87
Traditional brushed stainless steel	1	7331 80	1	7331 81	1	7331 91	1	7331 92	1	7331 93	1	7331 94	1	7331 82	1	7331 83	1	7331 84	1	7331 85	1	7331 86	1	7331 87
Traditional polished stainless steel	1	7333 80	1	7333 81	1	7333 91	1	7333 92	1	7333 93	1	7333 94	1	7333 82	1	7333 83	1	7333 84	1	7333 85	1	7333 86	1	7333 87
Traditional satin brass	1	7335 80	1	7335 81	1	7335 91	1	7335 92	1	7335 93	1	7335 94	1	7335 82	1	7335 83	1	7335 84	1	7335 85	1	7335 86	1	7335 87
Traditional polished brass	1	7337 80	1	7337 81	1	7337 91	1	7337 92	1	7337 93	1	7337 94	1	7337 82	1	7337 83	1	7337 84	1	7337 85	1	7337 86	1	7337 87
Metalclad		–		–	1	7339 91	1	7339 92	1	7339 93	1	7339 94	1	7339 82	1	7339 83	1	7339 84	1	7339 85	1	7339 86	1	7339 87
Dimensions (mm)					89 x 89(1)		89 x 89(1)		89 x 149(1)		89 x 149(1)		146 x 146		146 x 146									
Modern silver		–		–	1	7311 91	1	7311 92	1	7311 93	1	7311 94	1	7311 82	1	7311 83		–		–		–		–
Modern nickel		–		–	1	7313 91	1	7313 92	1	7313 93	1	7313 94	1	7313 82	1	7313 83		–		–		–		–
Modern matt black		–		–	1	7317 91	1	7317 92	1	7317 93	1	7317 94	1	7317 82	1	7317 83		–		–		–		–
Modern black nickel		–		–	1	7315 91	1	7315 92	1	7315 93	1	7315 94	1	7315 82	1	7315 83		–		–		–		–
Dimensions (mm)					92 x 92(1)		92 x 92(1)		92 x 152(1)		92 x 152(1)		146 x 146		146 x 146		207 x 146		207 x 146		267 x 206		267 x 206	
Rope edge polished brass		–		–	1	7321 91	1	7321 92	1	7321 93	1	7321 94	1	7337 82(2)	1	7337 83(2)	1	7337 84(2)	1	7337 85(2)	1	7337 86(2)	1	7337 87(2)
GRID YOKES	1 x		1 x		1 x		1 x		1 x		1 x		2 x		2 x		3 x		3 x		3 x		4 x	
For white, traditional and metalclad	10	7354 95	10	7354 96	10	7354 90	10	7354 91	10	7354 92	10	7354 92	10	7354 92	10	7354 92	10	7354 92	10	7354 92	10	7354 93	10	7354 93
For modern and rope edge brass		–		–	10	7354 81	10	7354 81	10	7354 82	10	7354 82	10	7354 92	10	7354 92	10	7354 92	10	7354 92	10	7354 93	10	7354 93
BACK BOXES																								
Dimensions (mm)	82 x 28 x 26		142 x 28 x 26		35 mm depth		35 mm depth		35 mm depth		35 mm depth		137 x 137 x43		137 x 137 x43		198 x 137 x 43		198 x 137 x 43		254 x 194 x 56		254 x 194 x 56	
Flush	10	7364 40	10	7364 41	100	0891 13	100	0891 13	40	0891 14	40	0891 14	1	0818 52	1	0818 52	1	0818 53	1	0818 53	1	0818 54	1	0818 55
Flush with phase barriers		–		–		–		–		–		–		–	1	–	1	0818 57	1	0818 57	1	0818 58	1	0818 59
Dimensions (mm)	86 x 36 x 30		146 x 36 x 30		86 x 86 x 47		86 x 86 x 47		86 x 146 x 47		86 x 146 x 47													
Surface white for white only	10	7364 05	5	7364 04	10	7364 07	10	7364 07	5	7364 11	5	7364 11		–		–		–		–		–		–
Dimensions (mm)					86 x 86 x 37		86 x 86 x 37		86 x 146 x 37		86 x 146 x 37		146 x 146 x 37		146 x 146 x 37		207 x 146 x 37		207 x 146 x 37					
Surface steel with knockouts		–		–	10	7364 00	10	7364 00	5	7364 01	5	7364 01	1	7364 18	1	7364 18	1	7364 28	1	7364 28		–		–
Surface steel without knockouts		–		–	10	7364 20	10	7364 20	5	7364 21	5	7364 21	1	7364 22	1	7364 22	1	7364 32	1	7364 32		–		–

Front plate material

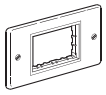
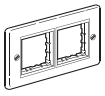
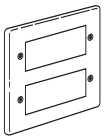
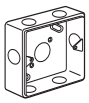
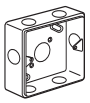
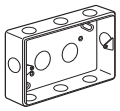
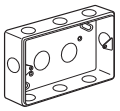
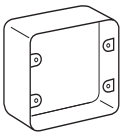
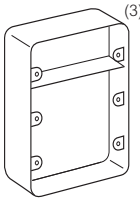
White : 1 to 8 modules - thermoset; 9 to 24 modules - stainless steel
Traditional : All modules - stainless steel
Metalclad : 1 to 4 modules - mild steel; 6 to 24 modules - stainless steel
Modern : 1 to 4 modules - die cast alloy; 6 to 8 modules - stainless steel
Rope edge : 1 to 4 modules - die cast alloy; 6 to 24 modules - stainless steel

(1) Screw free clip-on front plate
(2) Stainless steel plate - no rope edge detail

(3) Phase barrier variant shown

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Synergy® grid system
for Mosaic modules

GRID MODULES	FRONT PLATES FOR MOSAIC MODULES											
	1 gang		1 gang		2 gang		2 gang		2 x 2 gang		3 x 3 gang	
FRONT PLATES	Clip-in carrier plate - no yoke required								Yoke required			
												
	Pack	1 module	Pack	2 modules	Pack	3 modules	Pack	4 modules	Pack	8 modules	Pack	18 modules
Dimensions (mm)	**86 x 86**		**86 x 86**		**86 x 146**		**86 x 146**		**146 x 146**		**267 x 206**	
White	10	7300 91	10	7300 92	10	7300 93	10	7300 94	1	7301 88	1	7301 90
Traditional brushed stainless steel	1	7330 91	1	7330 92	1	7330 93	1	7330 94	1	7331 88	1	7331 90
Traditional polished stainless steel	1	7332 91	1	7332 92	1	7332 93	1	7332 94	1	7333 88	1	7333 90
Traditional satin brass	1	7334 91	1	7334 92	1	7334 93	1	7334 94	1	7335 88	1	7335 90
Traditional polished brass		–		–		–		–	1	7337 88	1	7337 90
Metalclad	5	7338 91(1)	5	7338 92(1)	5	7338 93(1)	5	7338 94(1)	1	7339 88	1	7339 90
Dimensions (mm)	**89 x 89(2)**		**89 x 89(2)**		**89 x 149(2)**		**89 x 149(2)**		**146 x 146**		**267 x 206**	
Modern silver	1	7310 91	1	7310 92	1	7310 93	1	7310 94	1	7311 88	1	7311 90
Modern nickel	1	7312 91	1	7312 92	1	7312 93	1	7312 94	1	7313 88	1	7313 90
Modern matt black	1	7316 91	1	7316 92	1	7316 93	1	7316 94	1	7317 88	1	7317 90
Modern black nickel	1	7314 91	1	7314 92	1	7314 93	1	7314 94	1	7315 88	1	7315 90
Dimensions (mm)	**92 x 92(2)**		**92 x 92(2)**		**92 x 152(2)**		**92 x 152(2)**					
Rope edge polished brass	1	7320 91	1	7320 92	1	7320 93	1	7320 94	1	Use 7337 88	1	Use 7337 90
GRID YOKES												
Grid yoke									10	2 x 7354 92	10	3 x 7354 93
								+		+		+
Mosaic module carrier									15	2 x 7354 84	12	3 x 7354 86
								=		=		=
Grid yoke complete with Mosaic module carrier									10	2 x 7354 74	10	3 x 7354 76
BACK BOXES												
											 (3)	
Dimensions (mm)	**35 mm depth**		**35 mm depth**		**35 mm depth**		**35 mm depth**		**137 x 137 x 43**		**254 x 194 x 56**	
Flush	100	0891 13	100	0891 13	40	0891 14	40	0891 14	1	0818 52	1	0818 54
Flush with phase barriers		–		–		–		–		–	1	0818 58
Dimensions (mm)	**86 x 86 x 47**		**86 x 86 x 47**		**86 x 146 x 47**		**86 x 146 x 47**					
Surface white for white only	10	7364 07	10	7364 07	5	7364 11	5	7364 11		–		–
Dimensions (mm)	**86 x 86 x 37**		**86 x 86 x 37**		**86 x 146 x 37**		**146 x 146 x 37**		**146 x 146 x 37**			
Surface steel with knockouts	10	7364 00	10	7364 00	5	7364 01	5	7364 01	1	7364 18		–
Surface steel without knockouts	10	7364 20	10	7364 20	5	7364 21	5	7364 21	1	7364 22		–

Front plate material

White : 1 to 4 modules - thermoset; 8-18 modules - stainless steel
Traditional : All modules - stainless steel
Metalclad : 1 to 4 modules - mild steel; 8 to 18 modules - stainless steel
Modern : 1 to 4 modules - die cast alloy; 8 to 18 modules - stainless steel
Rope edge : 1 to 4 modules - die cast alloy; 8 to 18 modules - stainless steel

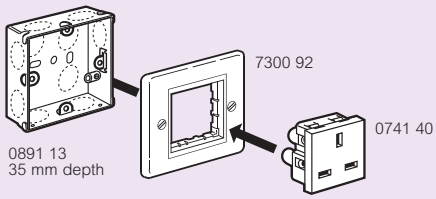
(1) Supplied with back box
(2) Screw free clip-on front plate
(3) Phase barrier variant shown

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

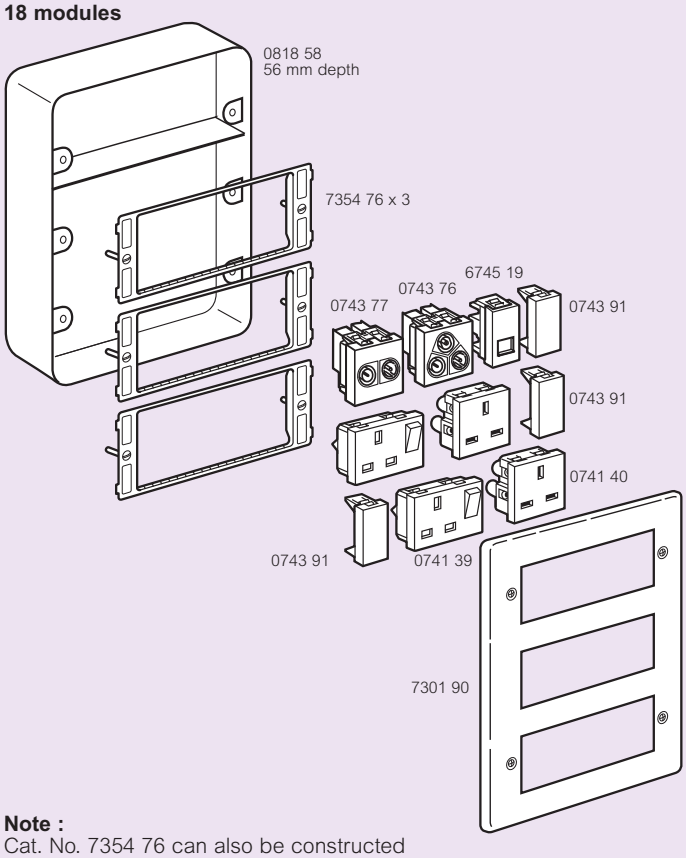
Synergy® grid system
for Mosaic modules

■ Flush mounting installation examples

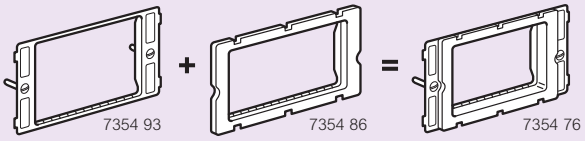
2 modules



18 modules



Note :
Cat. No. 7354 76 can also be constructed using 7354 93 + 7354 84



■ Surface mounting

Surface mounting of Synergy grid of Mosaic modules using components illustrated above

	1/2 modules	3/4 modules	8 modules
Box dimensions	86 x 86 x 37	86 x 146 x 37	146 x 146 x 37
Surface box (no KOs)	7364 00	7364 01	7364 18
Surface box (with KOs)	7364 20	7364 21	7364 22

■ Synergy grid for Mosaic modules

Grids are integral with plate and therefore cannot be ordered separately for 1-4 module products
Grids for 8 and 18 module plates are Cat. Nos. 7354 74 x 2 and 7354 76 x 3 respectively

Simple solutions to complex requirements



Legrand's Synergy Grid system now enables you to choose from the vast selection of Mosaic modules to create compact neat function plates including TV corners and home office panels.

FEATURES

- Space-saving, compact solution
- "Pick and mix" for the ultimate flexibility
- Unbeatable choice of modular wiring accessories
- Neat installations
- Adaptability... accessories can be easily replaced if requirements change

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Modular versatility for limitless combinations

Mosaic 3 piece wiring accessories offer an unrivalled selection of functions in a unique "pick and mix" format that alows you to specify the exact combination of functions required... from single module accessories to diverse multi-functional panels,



Three simple steps... countless options

Three piece Mosaic is the choice for flexibility. Flexibility in terms of both choice and installation. Simply clip the required mechanisms into the support frames and then clip on the cover plate of your choice.

The clip-on covers allow for a change of style at any time and also simplify decorating as they can be easily removed and then replaced once the work is complete.

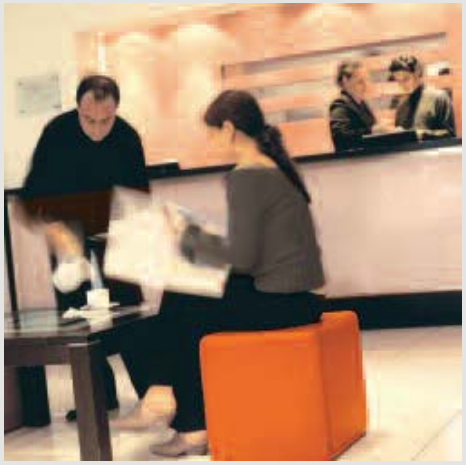


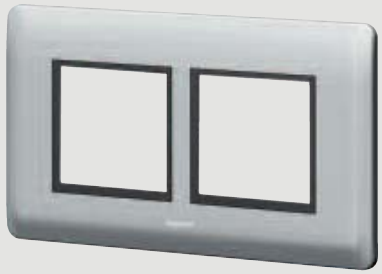
HOME NETWORKS



Mosaic's modular design makes it the ideal choice for use with home networks...

Choose from the Mosaic range itself, or integrate the desired mechanisms with Synergy's modular faceplates.





Mosaic's modular mechanisms are now fully compatible with the Synergy range

FUNCTIONS FOR EVERY NEED

Switching	Power	Control	Voice and data	Comfort
				
				
				

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
switches and push buttons


0740 11


0740 12


0740 36


0740 36
back view

Designed for use with 1, 2 or 3 module cover plates and support frames, see p. 94-95

Pack	Cat. Nos.	Switches 10 AX – 250 V~	Number of modules 22·5 x 45 mm
		2 module mechanisms	
10	0740 11	2 way switch	2
10	0740 12	2 way switch with facility for indicator(1)	2
10	0740 20	Double pole switch	2
10	0740 21	Intermediate switch	2
		1 module mechanisms	
10	0740 01	2 way switch	1
10	0740 02	2 way switch with facility for indicator(1)	1
		Switches 20 AX - 250 V~	
		1 module mechanisms	
10	0740 35	1 way switch	1
10	0740 36	2 way switch	1
10	0740 37	2 way switch with facility for indicator(1)	1
		2 module mechanisms	
10	0740 50	DP switch	2
10	0740 51	DP switch with facility for indicator(1)	2
		Push buttons 6 A – 250 V~	
		2 module mechanisms	
10	0740 40	1 way SP push to make	2
10	0740 41	2 way SP push to make/ push to break	2
		1 module mechanisms	
10	0740 30	1 way SP push to make	1
10	0740 31	2 way SP push to make/ push to break	1
		Key operated switches	
		6 A – 250 V~	
1	0740 61	3 position SP switch Changeover switch with centre-off position No. 601 keys supplied Key removable in all 3 positions	2
1	0740 62	2 position SP switch Changeover switch No. 601 keys supplied Key removable in both positions	2
		20 A – 250 V~	
10	0740 04(2)	2 way SP switch	1
10	0740 09(2)	2 way SP switch with facility for indicator(1)	1
10	0740 18(2)	DP switch	2
10	0740 19(2)	DP switch with facility for indicator(1)	2

(1) Use lamps Cat. Nos. 0899 01/02/06/07 (p. 89)
(2) Supplied with keys

Mosaic™ 3 piece
BS and international standard socket outlets


0741 24


0741 39


0741 38


0741 11


0741 30


0741 80

Designed for use with 1, 2 or 3 module cover plates and support frames, see p. 94-95

Pack	Cat. Nos.	British standard socket outlets	Number of modules 22·5 x 45 mm
		Shuttered for child safety	
		Modular units	
		13 A - BS 1363 Part 2	
10	0741 40	2 P + ⏚ ASTA approved	2
5	0741 39	2 P + ⏚ switched	3
5	0741 38(1)	2 P + ⏚ switched (non-standard)	3
		5 A socket - BS 546	
10	0741 24	2 P + ⏚	2
		15 A - BS 546	
5	0741 20	2 P + ⏚ switched	3
		International standard socket outlets(2)	
10	0741 11	2 P + ⏚ 10/16 A France shuttered	2
10	0741 30	2 P + ⏚ 10/16 A Germany shuttered – scraping earth	2
10	0741 06	2 P + ⏚ 10/16 A Italy shuttered	1
10	0741 52	2 P + ⏚ 10 A China shuttered	2
10	0741 08	2 P + ⏚ 10 A Switzerland Type 12, shuttered	1
10	0741 69	2 P + ⏚ 10 A Switzerland Type 13, shuttered	2
10	0741 80	2 P + ⏚ 15 A USA	2
10	0741 67	2 P + ⏚ 10 A Australia	2
10	0741 02	2 P + ⏚ 15 A Euro US	2
5	0741 00	2 x 2 P + ⏚ 15 A Euro US	3

(1) For plug, see p. 108
(2) Only for use in UK where regulations and legislation allow. For further information contact BSI, see p. 504

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
audio sockets and home entertainment


0733 01


0787 53


0743 76


6746 05


0733 05


0733 12


0743 77


0743 82

Pack	Cat. Nos.	Audio sockets	Number of modules 22·5 x 45 mm
		Connection by screw terminals,	
		Loudspeaker	
10	0733 01	Terminals accept max. 4 mm² conductors	1
		Dual cinch female (RCA)	
1	0787 53	Used for transmitting stereo audio signals Equipped with 2 connectors, red and white Recommended cable : single pair audio, shielded Minimum box depth : 47 mm	1
		XLR 3-pole (female Neutrik)	
1	0733 05	Used for connecting a microphone or a remote console to an amplifier Recommended cable for microphone : single pair audio 0·22 mm², shielded Recommended cable for speakers : single pair audio 1·5 mm², Maximum conductor length : 50 m Minimum box depth : 47 mm	2
		Speakon 4 contacts	
1	0733 12	Used for connecting speakers to an amplifier Recommended cable : single pair audio 2·5 mm² max. Maximum conductor length : 50 m Minimum box depth : 47 mm	2



For home networks

see p. 18-19

Pack	Cat. Nos.	TV + FM + SAT sockets	Number of modules 22·5 x 45 mm
		Compatible with reception of Hertzian, satellite and cable network signals Ø 9·52 mm connector TV male/FM female/Sat F	
		Triple sockets BS EN 50083-2	
		Equipped with automatic connection terminal which clamps coaxial cable For Hertzian and satellite installations with individual demodulator Enables the reception of digital transmissions TV 5-68/120-862 MHz FM 87·5-108 MHz SAT 950-2150 MHz Attenuation ≤ 2 dB	
10	0743 76	TV-FM-SAT 1 coaxial cable	2
10	0743 75	TV-FM-SAT Enables the satellite connection to be added to an existing installation without coupling by dropping a second cable into the socket	2
		Satellite sockets	
		Over 25 dB return loss @1 GHz Insertion loss under 1 dB @ 1 GHz	
10	6746 05	F connector 180° exit (75 Ohm)	1
10	0743 58	F connector, screened 90° exit	2
		Twin socket	
		BS EN 50083-2	
		Suitable for reception of Hertzian and satellite network signals TV 5-68/120-862 MHz FM 87·5-108 MHz Attenuation ≤ 1·5 dB	
10	0743 77	Screened TV-FM socket Isolated	2
		Single socket (Ø 9/9·5 male)	
		TV 0-2150 MHz Attenuation ≤ 1 dB	
10	0743 82	Screened TV socket Non-isolated	2
		Single sockets (Ø 9/9·5 female)	
		TV 0-860 MHz	
20	0743 70	TV socket Non-isolated	1
10	0743 57	Screened TV socket Non-isolated	2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
video sockets


0787 57


0787 54


0787 63


0787 58

Pack	Cat. Nos.	Video sockets	Number of modules 22·5 x 45 mm
		Connection by screw terminals, max. 1 mm²	
		Female HD15	
1	0787 57	Used for transmitting VGA, XGA or VESA analogue video signals Can be used for connecting plasma screens, video projectors etc Recommended cable : 5 coax 75 Ω Ø2·7 mm + 5 conductors Ø2·7 - 28 gauge Maximum conductor length : 20 m Minimum box depth : 47 mm	2
		Triple cinch female audio/video (RCA)	
1	0787 54	Used for transmitting stereo audio video signals (home cinema) Equipped with 3 connectors, red, white and yellow Recommended cable : video dual 2 x coax 75 Ω Ø 7 mm Maximum conductor length : 50 m Minimum box depth : 47 mm	1
		S-Video (mini Din 4 points)	
1	0787 63	Used for transmitting high definition YC/SVHS video signals (Hi-8 camcorder, DVD drive etc) Recommended cable : video dual 2 x coax 75 Ω Ø 7 mm Maximum conductor length : 35 m Minimum box depth : 47 mm	1
		Female BNC 75Ω	
1	0787 58	Used for connecting composite video signals (video surveillance network, camera, plasma screen etc Recommended cable : 1 x coax 75 Ω Ø 6 mm Maximum conductor length : 50 m Minimum box depth : 47 mm	1



Category 5e and 6 conformity certificates are available on request

Contact us on 0845 605 4333

Mosaic™ 3 piece
voice, data and image sockets


0742 80


0742 93


0742 81


6745 18

Conform to draft standard ISO 11801 ed. 2·0, EN 50173 and EIA/TIA 568
Fast connection sockets - no tool required
Contacts marked with dual colour code 568 A and B and numbers
Multidirectional cable entry enables installation in shallow trunking, 34 mm for UTP and FTP connectors, 60 mm for STP
Will accept RJ 45, RJ 12 or RJ 11 plugs with no distortion of the contacts

Pack	Cat. Nos.	RJ 45 sockets - Category 6	Number of modules 22·5 x 45 mm
		Connectors with insulation displacement terminals	
		RJ 45 without screen (UTP)	
10	0742 80	8 contacts	1
10	0742 81	8 contacts	2
		RJ 45 with screen (FTP)	
10	0742 90	9 contacts	1
10	0742 91	9 contacts	2
10	0742 92	9 contacts - installation at 90° possible on columns and mini-columns	2
		RJ 45 shielded (STP)	
10	0742 93	8 contacts	1
		RJ 45 sockets - Category 5e	
		RJ 45 without screen (UTP)	
10	0742 85	8 contacts	1
10	0742 86	8 contacts	2
		RJ 45 with screen (FTP)	
10	0742 88	9 contacts	1
10	0742 89	9 contacts	2
		RJ 11 socket	
10	0742 61	4 contacts	1
		RJ 12 socket	
10	0743 32	6 contacts	2
		Telephone sockets	
		UK telephone outlet with IDC connection	
10	6745 18	Single master	1
10	6745 19	Single secondary	1

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
visual and audible indication


0747 01


0747 30 with 0747 32


0747 25

Pack	Cat. Nos.	Illuminated functions	Number of modules 22·5 x 45 mm
		Supplied without lamps	
		Indicator units	
10	0747 00	Single transparent[1]	1
10	0747 01	Single red[1]	1
10	0747 02	Single orange[1]	1
10	0747 03	Single green[2]	1
10	0747 05	Double (supplied with set of lenses in above colours)	1
		Overdoor light unit	
10	0747 30	Lampholder and base unit Supplied without diffuser Requires E10 lamp (max. 5 W) below	2
		Diffusers for above	
10	0747 31	Transparent	
10	0747 32	Red	
10	0747 33	Orange	
10	0747 34	Green	
		Low output downlighters Emits low level of light – suitable for bedhead applications or for illumination of individual steps on a stairwell	
1	0747 22	**With long life LED** With LED 0·5 W for 230 V	2
		Miniature emergency light unit	
1	0747 25	Illuminates automatically upon power failure Unclips from frame to become portable. Can be permanently attached to frame LEDs indicating mains and charging status	2

Lamps

For switches, indicator units and other low output light fittings
Supplied with rapid connection device for neutral wire

10	0899 01	12 V 0·4 W
10	0899 02	24 V 0·8 W

Lamps for indicator units

10	0899 11	12 V 0·4 W
10	0899 12	24 V 0·8 W
10	0899 16	230 V~ 1·7 mA for orange, red and transparent indicator units
10	0899 17	230 V~ 0·55 mA for green indicator units

For indicator usage 230 V~
Bright orange neon

10	0899 06	Supplied with rapid connection device for neutral wire

For locator usage 230 V~
Low consumption green fluorescent

10	0899 07	For time lag switch, push-buttons, etc. 0·55 mA

E10 lamps for overdoor/night light units

10	0898 36	12 V – 5 W
10	0898 37	24 V – 5 W
10	0898 38	48 V – 5 W
10	0898 40	230 V – 5 W

Buzzers

Pack	Cat. Nos.		Number of modules 22·5 x 45 mm
10	0747 50	8 V~	1
10	0747 52	24 V⎓	1
10	0747 56	230 V~	1

(1) Use lamps Cat. Nos. 0899 11/12/16
(2) Use lamps Cat. Nos. 0899 11/12/17

Mosaic™ 3 piece
RCBOs and fuse unit


0744 57


0744 50

Pack	Cat. Nos.	RCBOs	Number of modules 22·5 x 45 mm
		Conform to IEC 1009-2-2 **Single pole + neutral 230 V~**	
		Differential Type A ⩙, Thermal-magnetic Type C (5-10 In) With test button	
		30 mA[1]	
1	0744 55	6 A	2
1	0744 57	10 A	2
1	0744 59	16 A	2

Pack	Cat. Nos.	13 A fuse unit	Number of modules 22·5 x 45 mm
		13 A - 250 V~ only	
10	0744 50	Fuse module fitted with BS 1362 fuse link	1

(1) RCD nominal trip rating

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
dimmers


0744 05

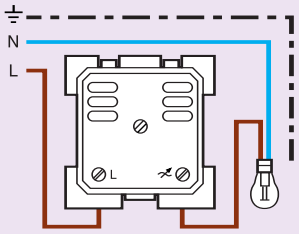

0744 06

Pack	Cat. Nos.	Rotary dimmer 230 V~ - 50 Hz	Number of modules 22·5 x 45 mm
1	0744 05	Conforms to BS EN 55014 Requires a 48 mm deep back box 1 way operation only • 60-500 W incandescent/ halogen at 230 V~ • 60-500 VA ELV halogen using ferromagnetic type transformer exclusively	2
1	0744 06	**Push dimmer 230 V~ - 50 Hz** Conforms to BS EN 55014 Requires a 48 mm deep back box 1 or 2 way operation Two independent rockers enabling ON/OFF switching and dimming from previously regulated lighting level • 40-300 W incandescent/halogen at 230 V~ • 40-300 VA ELV halogen using ferromagnetic or electronic transformers In 2 way switching applications, dimmer can be remotely operated from switch points through use of parallel wired push buttons Cat. No. 0740 40 Alternatively, if a conventional 2 way switch is used (e.g. Cat. No. 0740 11), previously set lighting levels retained in dimmer unit will be retrieved	2

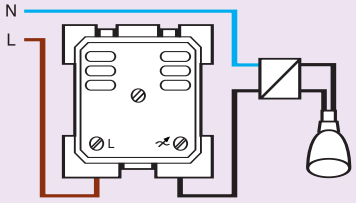
Mosaic™ 3 piece
dimmers

■ Rotary dimmer

230 V~ incandescent/halogen

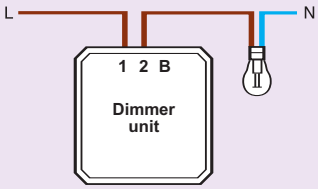


ELV halogen with ferromagnetic transformer



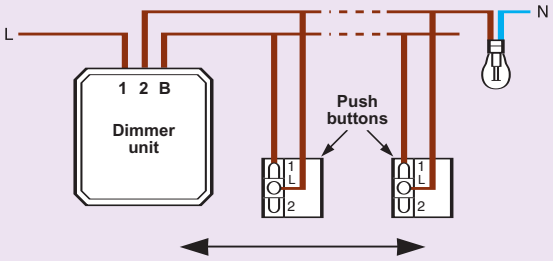
■ Push dimmer

1 way circuits



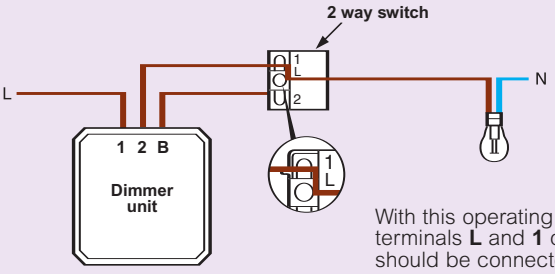
The phase can be linked to either terminal 1 or 2

2 way circuits (dimming from all lighting control points)



Use of the push button connected as a two-way function with the dimmer :
- short press for ON/OFF
- long press for modulation

2 way circuits (dimming from all lighting control points)

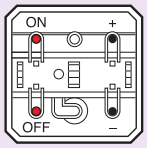


With this operating scenario, terminals **L** and **1** of the switch should be connected together

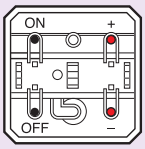
Important : the dimmer can be connected to either the lamp or the phase side. Failure to adhere strictly to the connection diagrams, can destroy the unit.

The product is factory-configured to work with a push button

- To make it work with a switch : Press simultaneously on **ON** and **OFF** (3 seconds)



- To return to push button mode : Press simultaneously on **ON** and **OFF** (3 seconds)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
automatic switches and control units



0744 26


0744 20


0744 25

Pack	Cat. Nos.		Number of modules 22·5 x 45 mm
		Infrared switch units IP 20 230 V∿ - 50 Hz	
		Automatic lighting control for areas having occasional public passage Time delay adjustable from 1 sec. to 16 min. Cycle repeated as long as device detects movement Maximum detection range : 10 m Detection zone in horizontal plane : 180° Brightness threshold adjustable from 3 to 1 000 lux Manual override possible with remote Push-to-Break push button or integral ON/OFF buttons Require 48 mm deep back box	
		Automatic or manual unit	
1	0744 26	 Neutral distribution not required • 40-300 W incandescent/ halogen 230 V∿ • 40-300 VA ELV halogen using ferromagnetic or electronic transformers	2
		Fully automatic unit	
1	0744 72	 3 wire switch, requires distribution of neutral • 60-1 000 W incandescent/ halogen 230 V∿	2
		Time delay switch(1)	
1	0744 20(1)	 Conforms to interference suppression standards EN 55022 Operates : • 500 W halogen and incandescent 230 V∿ • 400 VA fluorescent lamps Ø 26 mm or 38 mm • 500 VA ELV tungsten halogen lamps with ferromagnetic and electronic transformer Adjustable from 1 to 20 min. (for toilets, staircases, lighting cellars from the main house) Remote control using push buttons (non-illuminated) : enables the switch to be used as a timer Neutral must be distributed	2
		Programmable time switch	
1	0744 25	 Liquid crystal display with 20 hour working reserve Minimum switching time : 1 min. Capacity : 8 weekly programmes Temporary or permanent override 1 outlet - 6 A - 250 V∿- cos φ = 1 1 changeover contact Neutral must be distributed	2
		Control for electric shutters	
10	0740 26	 Twin two-way switch for direct control of a motor (mechanism with fixed positions) 10 A - 250 V∿	2

Mosaic™ 3 piece
thermostats


0744 35



0744 37

Pack	Cat. Nos.		Number of modules 22·5 x 45 mm
		Electronic thermostat	
		Adjustment range from 5 °C to 30 °C Control accuracy ± 0·5 °C Control knob with index and adjustable segments for min. and max. settings Power supply 230 V∿ - 50/60 Hz One volt-free changeover contact output • LV use : Breaking capacity : - 8 A - 250 V∿ resistive circuit - 2 A - 250 V∿ inductive circuit • ELV use : Breaking capacity : From 1 mA min. to 500 mA max. at 12 to 48 V∿/12 to 24 V⎓ Suitable for controlling ceiling mounted and underfloor heating systems	
1	0744 35	 Thermostat	2
		Programmable thermostat - daily and weekly settings	
		For temperature control of heating installations using oil, gas or electricity according to different settings (high, low, frost protection) Suitable for controlling ceiling-mounted and underfloor heating systems Permanent display of current programme 5 preset programmes, 1 free programme, maximum 4 daily time settings, 2 adjustable temperature levels Power supply 230 V - 50/60 Hz Adjustment range from 7 °C to 35 °C Control accuracy ± 0·5 °C (category B) Minimum switching time : 1 min. Time storage : 24 hours Permanent programme storage 1 output per changeover contact	
1	0744 37	 Breaking capacity : 8 A - 250 V∿ resistive circuit 2 A - 250 V∿ inductive circuit From 1 mA min. to 500 mA max. at 12 to 48 V∿	3

(1) Use lamps Cat. Nos. 0899 01/02/06/07 (p. 89)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
control units



0744 45 with
0898 06 key fob inserted


0744 45


0040 49

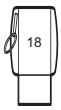

0744 47

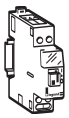


0744 48



0744 31

Pack	Cat. Nos.	Energy saving key fob switch	Number of modules 22·5 x 45 mm
		For energising a circuit by inserting key fob Cat. No. 0898 06 or a smart card (e.g. access card for a hotel room) Example of use : hotel room power supply only when guest is present Power requirement : 230 V∿ - 50/60 Hz Time-delay of approx. 30 sec. after card removal Used in conjunction with a contactor Cat. No. 0040 49 (see below)	
1	0744 45	 Key fob microswitch unit Output : 15 VA at 110 V∿ 30 VA at 230 V∿	2
10	0898 06	 Key fob for switch above Cat. No. 0744 45 Supplied complete with a label holder for individual hotel identification	

Pack	Cat. Nos.	Contactor with 230 V∿ coil	Number of modules 22·5 x 45 mm
		Double pole	
1	0040 49	 230 V∿ coil circuit Max. load : 20 A 2 N/O contacts	1

Pack	Cat. Nos.	Hotel bedroom call indicator	Number of modules 22·5 x 45 mm
		Enables the resident to inform hotel staff of the room status Two settings are possible : • do not disturb • please clean the room	
		Indicator lamp and bell push	
5	0744 47	 Installed in the corridor, displays calls Supplied with lamps Cat. Nos. 0899 16/17 (p. 89)	1 + 1
		Internal control unit	
5	0744 48	 Allows the user to select the desired setting Supplied with lamps Cat. Nos. 0899 06/07 (p. 89)	1 + 1

Pack	Cat. Nos.	Coded keypad switch	Number of modules 22·5 x 45 mm
		Supply voltage 230 V∿ **Contact 6 A – 250 V∿**	
1	0744 31	 Momentary action changeover contacts Pulse adjustable from 1 to 10 secs	2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece

FLUSH MOUNTING BOXES, SUPPORTS AND COVER PLATES

MODULES	FLUSH BOXES	SUPPORT FRAMES	COVER PLATES
1 module	0891 13 - depth 35 0891 17 - depth 48	1748 26	White 0750 26 Polished steel 0754 76 Satin steel 0755 76 Pearl grey 6757 26 Stardust grey 6757 76
2 x 1 module 2 modules	0891 13 - depth 35 0891 17 - depth 48	1748 26	White 0750 27 Polished steel 0754 77 Satin steel 0755 77 Pearl grey 6757 27 Stardust grey 6757 77
4 x 1 module 2 x 1 + 2 modules 2 x 2 modules	0891 14 - depth 35 0891 18 - depth 48	1748 28	White 0750 28 Polished steel 0754 78 Satin steel 0755 78 Pearl grey 6757 28 Stardust grey 6757 78
1 + 2 modules 3 x 1 module 1 x 3 module	0891 14 - depth 35 0891 18 - depth 48	1748 27	White 0750 29 Polished steel 0754 79 Satin steel 0755 79 Pearl grey 6757 29 Stardust grey 6757 79

FLUSH MOUNTING BOXES AND PLATES WITH MOUNTING FRAMES

MODULES	FLUSH BOXES	PLATES + FRAMES	MODULES	FLUSH BOXES	PLATES + FRAMES
6 x 1 module 3 x 2 modules 2 x 3 modules Plus other combinations of 1, 2 or 3 modules	6890 27 - depth 42 Dimensions H 72 x W 212	6745 56	12 x 1 module 6 x 2 modules 4 x 3 modules Plus other combinations of 1, 2 or 3 modules	6890 28 - depth 42 Dimensions H 143 x W 212	6745 59
8 x 1 module 4 x 2 modules 2 x 3 + 2 modules Plus other combinations of 1, 2 or 3 modules	6890 27 - depth 42 Dimensions H 72 x W 212	6745 58	18 x 1 module 9 x 2 modules 6 x 3 modules Plus other combinations of 1, 2 or 3 modules	0818 56 - depth 42 Dimensions H 212 x W 212	6745 60

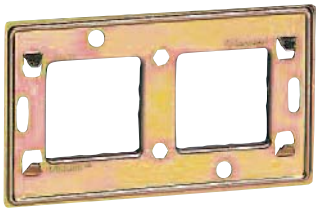
N.B. When close grouping decorative Mosaic it is necessary to correctly space the flush mounting boxes. Please ask for details.

When using 2 or more 13 A unswitched sockets (0741 40) next to each other it is necessary to separate each socket with a 1 module spacer (0743 91)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
support and panel mounting frames


1748 26


1748 28


0748 52

Mosaic™ 3 piece
ancillaries


0748 46


0748 62


0743 94


7331 97 with 0741 40 fitted

Pack	Cat. Nos.	Support frames
		Screw mounting for BS type boxes Accept mechanisms horizontally or vertically
		For 1 gang box Supplied with screws
10	1748 26	For 1 and 2 modules with earth terminal
		For 2 gang box
10	1748 27	For 3 modules with earth terminal
10	1748 28	For 2 x 2 modules with earth terminal

Pack	Cat. Nos.	Panel mounting frames
	White RAL 9010	**For 1 to 3 mm thick panels**
10	0748 50	1 module – clips into a 53·5 x 28 mm aperture
10	0748 52	2 modules – clips into a 53·5 x 58·5 mm aperture
10	0748 49	For 2 x 1 modules - Vertical mounting Clips into a 111·5 x 28 mm aperture

Pack	Cat. Nos	Insulated boxes
		Clip on to panel mounting frames For protection and isolation of mechanisms in the panel Mounted from the front face
10	0748 51	1 module for panel mounting frame Cat. No. 0748 50
10	0748 53	2 modules for panel mounting frame Cat. No. 0748 52

Pack	Cat. Nos	Plate - IP 44
	White RAL 9010	Dimensions : 77 x 84 mm
10	0748 46	Plate with IP 44 – IK 07 Splashproof cover for 2 Mosaic modules

Pack	Cat. Nos	Floor cover plates
		Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 95 x 85 mm For 2 Mosaic modules
1	7331 97	Brushed chrome
1	7333 97	Polished chrome
1	7335 97	Satin brass

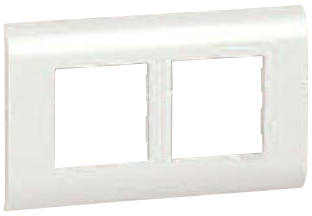
Pack	Cat. Nos	Adaptor frame
		Enables Mosaic 45 wiring devices to fit into 50 x 50 mm Euromodule
10	0748 62	For 2 Mosaic 45 modules

Pack	Cat. Nos	Ancillary mechanisms
10	0743 94	**20 A cable outlet** With 3 terminals to facilitate connection to appliances
10	0743 99	**Cord outlet** With Ø 8 mm entry
10	0743 91	**1 module blank**
10	0743 92	**2 module blank**

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 3 piece
cover plates and boxes


0750 29


0755 78


6757 27


6757 77

Clip-on via notches on to screw mounting supports
Cannot be removed by hand
Easy to remove with a screwdriver

White moulded cover plates

Polycarbonate

Pack	Cat. Nos. White RAL 9010		Dimensions (mm)
10	0750 26	For 1 module	86 x 86
10	0750 27	For 2 modules	86 x 86
10	0750 29	For 3 modules	86 x 146
10	0750 28	For 2 x 2 modules	86 x 146

Die cast cover plates

Polished and satin steel

Pack	Cat. Nos. Polished steel	Satin steel		Dimensions (mm)
1	0754 76	0755 76	For 1 module	88 x 88
1	0754 77	0755 77	For 2 modules	88 x 88
1	0754 79	0755 79	For 3 modules	88 x 148
1	0754 78	0755 78	For 2 x 2 modules	88 x 148

Evolution moulded cover plates

Polycarbonate

Pack	Cat. Nos. Pearl grey	Stardust grey		Dimensions (mm)
10	6757 26	6757 76	For 1 module	86 x 86
10	6757 27	6757 77	For 2 modules	86 x 86
10	6757 29	6757 79	For 3 modules	86 x 146
10	6757 28	6757 78	For 2 x 2 modules	86 x 146


6745 56


6745 58


6745 59


6745 60


6890 27


0818 56

White moulded cover plates

Polycarbonate
Clip-on via notches on to screw mounting supports
Cannot be removed by hand
Easy to remove with a screwdriver

Pack	Cat. Nos. White RAL 9010		Dimensions (mm)
5	6745 56	6 module plate including mounting frame	86 x 224
5	6745 58	8 module plate including mounting frame	86 x 224
2	6745 59	12 module plate including mounting frame	172 x 224
2	6745 60	18 module plate including mounting frame	240 x 224

Flush mounting galvanised steel back boxes

Pack	Cat. Nos.	Depth 42 mm	Dimensions (mm)
1	6890 27	For 6 and 8 module plate assemblies above	72 x 212
1	6890 28	For 12 module plate assemblies above	143 x 212
1	0818 56	For 18 module plate assemblies above (fitted with voltage separation barrier)	212 x 212

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

New faces...

Mosaic now offers an extended range of cover plates, all of which clip quickly and easily into place with no unsightly screws on the finished installation... and because the cover plates can be removed simply by unclipping, there is no need to remove the accessory whilst decorating takes place.



SOLUTIONS TO COMPLY WITH PART M



Mosaic's large rockers can be used to meet with requirements for ease of use.

A dark faceplate, such as the new Stardust grey finish shown here, can be fitted to a white or lightly coloured wall to create the colour contrast needed for the visually impaired.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 2 piece
switches and laser etched rocker covers


0745 70


0745 74



6749 89



6749 97


0745 71 +
6749 83 + 6749 91


0745 73 +
6749 82 + 6749 83 + 6749 95 + 6749 94

Pack	Cat. Nos.	
		Switches 20 AX - 250 V∿
		Conform to BS EN 60669-1
		Mechanisms only - use cover plates (p. 99)
		Captive terminal screws
		For flush mounting, see boxes min. depth 25 mm (p. 93)
10	0745 50	SP 1 gang – 1 way
10	0745 51	SP 1 gang – 2 way
10	0745 52	SP 1 gang – intermediate
10	0745 70	DP 1 gang – 1 way
10	0745 80	SP 1 gang – push button marked “PRESS”
10	0745 56	SP 2 gang – 2 way
10	0745 71	DP 2 gang – 1 way
5	0745 57	SP 3 gang – 2 way
5	0745 72	DP 3 gang – 1 way
5	0745 58	SP 4 gang – 2 way
5	0745 73	DP 4 gang – 1 way
		Triple pole fan switch 20 A
		Conform to BS EN 60669-2-4
		Mechanisms only - use cover plates (p. 99)
		Captive terminal screws
		For flush mounting, see boxes min. depth 25 mm (p. 93)
5	0745 74	3P fan switch
		Laser etched rocker covers
		For use in conjunction with Cat. Nos : 0745 70, 0745 71, 0745 72, 0745 73 DP switches supplied with plain rockers - not fitted
		For cover plates, see (p. 99)
5	6749 80	BOILER
5	6749 81	COOKER
5	6749 82	COOKER HOOD
5	6749 83	DISHWASHER
5	6749 84	EXTRACTOR
5	6749 85	EXTRACTOR FAN
5	6749 86	EXTRACTOR HOOD
5	6749 87	FREEZER
5	6749 88	FRIDGE
5	6749 89	FRIDGE FREEZER
5	6749 90	HEATER
5	6749 91	HOB
5	6749 92	HOOD
5	6749 93	MICRO/OVEN
5	6749 94	MICROWAVE
5	6749 95	OVEN
5	6749 96	TUMBLE DRYER
5	6749 97	WASHING MACHINE
5	6749 98	WASTE DISPOSAL
5	6749 99	WATER HEATER

Mosaic™ 2 piece
switches, spur units and shaver socket


0740 69


0743 63 + 0750 60


6745 87

Pack	Cat. Nos.	
		Double pole 45 A switches - 250 V∿
		Conform to BS 3676 : Part 1
		Mechanisms only - use cover plates (p. 99)
		Captive terminal screws
		For flush mounting, see boxes min. depth 48 mm (p. 93)
5	0740 68	DP switched
5	0740 69	DP switched + neon
		Connection (spur) units 13 A - 250 V∿
		Conform to BS 1363 : Part 4
		Mechanisms only - use cover plates (p. 99)
		Double pole - fused (fuse supplied)
		Removable flex outlet plug and cord grip
		Captive fuse carrier (padlockable)
		Captive terminal screws
10	0743 60	Unswitched
10	0743 61	Switched
10	0743 63	Switched + neon
		Shaver socket IP 24
		Conforms to BS EN 61558-2-5 : 1998
		IP 24
		For use with European, British, American and Australian 2 pin plugs
		Screwless live and neutral terminals
		Double wound isolating transformer
		Automatic self-resetting overload feature
		Plug insertion operates microswitch which energises transformer
		Flush mounting back box : min. 47 mm deep
		Nominal plate dimensions : 146 x 86 mm
1	6745 87	Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.
1	0893 23	Surface mounting back box Depth : 45 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 2 piece
sockets


0741 45


0741 26 + 0750 56

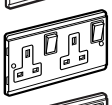
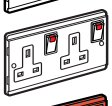
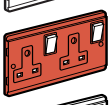
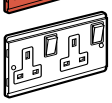

0741 25


0741 46


0741 48


0741 22


0741 23

Pack	Cat. Nos.	**Double pole sockets 13 A - 250 V∿**	
		Conform to BS 1363 : Part 2	
		Mechanisms only - use cover plates (p. 99)	
10	0741 45		DP 1 gang
10	0741 46		DP 1 gang + neon
5	0741 47		DP 2 gang twin earth
5	0741 48		DP 2 gang twin earth + neon
5	0741 26[1]		DP 2 gang - twin clean earth + single functional earth Non-standard pin configuration
5	0741 27		DP 2 gang - triple earth

Pack	Cat. Nos.	**Double pole socket 5 A - 250 V∿**	
		Conforms to BS 546	
		Mechanism only - use cover plates (p. 99)	
10	0741 25		DP 1 gang

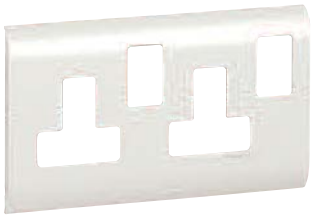
		Sockets 15 A - 250 V∿	
		Conform to BS 546	
		Mechanisms only - use cover plates (p. 99)	
10	0741 22		1 gang
10	0741 23		1 gang + neon

(1) Conforms to BS 1363 where applicable

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Mosaic™ 2 piece
cover plates

0750 59


0755 93


6757 27


6757 77

Clip-on via notches on to screw supports
Cannot be removed by hand
Easy to remove with a screwdriver

White moulded cover plates

Polycarbonate

Pack	Cat. Nos. White RAL 9010		Dimensions (mm)
10	0750 26	For 1 module	86 x 86
10	0750 27	For 2 modules	86 x 86
10	0750 29	For 3 modules	86 x 146
10	0750 28	For 2 x 2 modules	86 x 146
10	0750 55	For 5 A and 13 A switched socket outlet(1)	86 x 86
10	0750 57	For 15 A switched socket outlet(2)	86 x 86
10	0750 56	For 13 A twin switched socket outlet(3)	86 x 146
10	0750 58	For 45 A double pole switch(4) and shaver socket(7)	146 x 86
10	0750 59	For 13 A fused connection unit(5)	86 x 86
10	0750 60	For 13 A switched fused connection unit(6)	86 x 86

(1) For mechanisms Cat. Nos. 0741 45/46/25
(2) For mechanisms Cat. Nos. 0741 22/23
(3) For mechanisms Cat. Nos. 0741 26/27/47/48
(4) For mechanisms Cat. Nos. 0740 68/69
(5) For mechanism Cat. No. 0743 60
(6) For mechanisms Cat. Nos. 0743 61/62/63
(7) For mechanism Cat. No. 6745 87

Die cast cover plates

Polished and satin steel

Pack	Cat. Nos. Polished steel	Satin steel		Dimensions (mm)
1	0754 76	0755 76	For 1 module	88 x 88
5	0754 77	0755 77	For 2 modules	88 x 88
1	0754 79	0755 79	For 3 modules	88 x 148
1	0754 78	0755 78	For 2 x 2 modules	88 x 148
1	0754 91	0755 91	For 5 A and 13 A switched socket outlet(1)	88 x 88
1	0754 72	0755 72	For 15 A switched socket outlet(2)	88 x 88
1	0754 93	0755 93	For 13 A twin swiched socket outlet(3)	88 x 148
1	0754 98	0755 98	For 45 A double pole switch(4) and shaver socket(7)	148 x 88
1	0754 50	0755 50	For 13 A fused connection unit(5)	88 x 88
1	0754 51	0755 51	For 13 A switched fused connection unit(6)	88 x 88

Evolution moulded cover plates

Polycarbonate

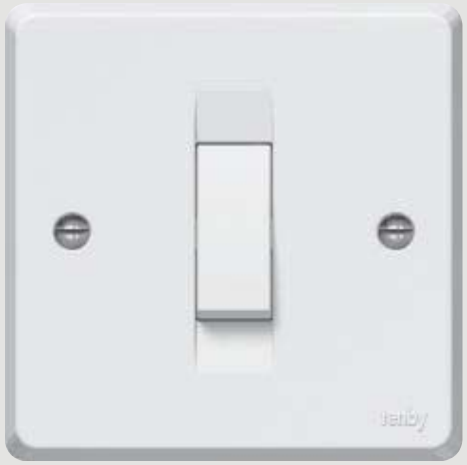
Pack	Cat. Nos. Pearl grey	Stardust grey		Dimensions (mm)
10	6757 26	6757 76	For 1 module	86 x 86
10	6757 27	6757 77	For 2 modules	86 x 86
10	6757 29	6757 79	For 3 modules	86 x 146
10	6757 28	6757 78	For 2 x 2 modules	86 x 146
10	6757 45	6757 95	For 5 A and 13 A switched socket outlet(1)	86 x 86
10	6757 47	6757 97	For 15 A switched socket outlet(2)	86 x 86
10	6757 46	6757 96	For 13 A twin switched socket outlet(3)	86 x 146
10	6757 48	6757 98	For 45 A double pole switch(4) and shaver socket(7)	146 x 86
10	6757 30	6757 80	For 13 A switched fused connection unit(6)	86 x 86

(1) For mechanisms Cat. Nos. 0741 45/46/25
(2) For mechanisms Cat. Nos. 0741 22/23
(3) For mechanisms Cat. Nos. 0741 26/27/47/48
(4) For mechanisms Cat. Nos. 0740 68/69
(5) For mechanism Cat. No. 0743 60
(6) For mechanisms Cat. Nos. 0743 61/62/63
(7) For mechanism Cat. No. 6745 87

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

A famous name with a fresh new look

The Tenby name has always been synonymous with quality, and by harnessing the international design and development resources of Legrand, the range has evolved to meet the style requirements of today's end users and the installation needs of today's professionals.

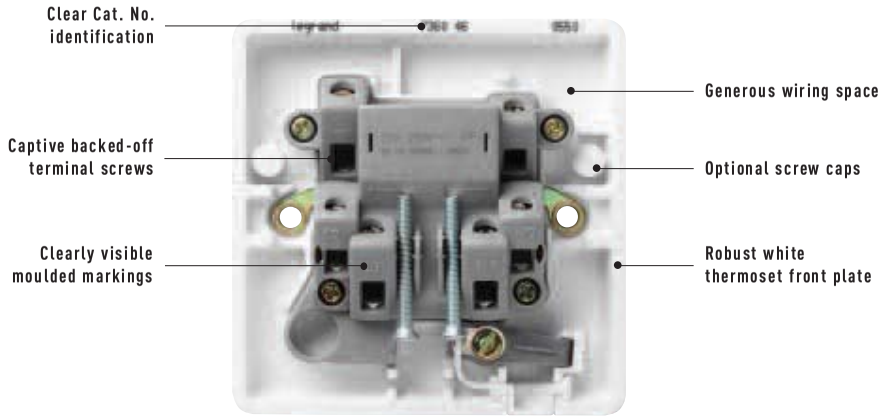


The installer's choice

With its trademark looks, the Tenby range of wiring accessories has always been a firm favourite in the UK.

The latest incarnation of the range has clean, simple lines with rockers that are now larger and slightly contoured for a more tactile feel.

MORE THAN JUST A PRETTY FACE



Switching



Power



VDI and control



Standard engraving



A selection of standard engravings are available. See p. 106.

Wide rocker



The Tenby Clipper range of large rocker switches represents an ideal solution to Part M's ease of operation requirements.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Tenby®
white

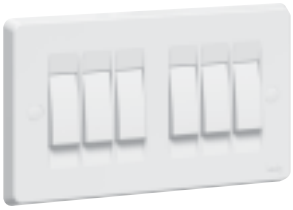

7360 11


7360 22


7360 05


7361 03


7360 32


7360 62

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (see p. 112)

Pack	Cat. Nos.	Single pole plate switches 10 AX - 250 V~
		Conform to BS EN 60669-1 : 2000
		Flush mounting back box : min. 16 mm deep Nominal plate dimensions : 86 x 86 mm
10	7360 11	1 gang – 1 way
10	7360 12	1 gang – 2 way
10	7360 13	1 gang – intermediate
10	7360 22	2 gang – 2 way
10	7360 32	3 gang – 2 way
		Nominal plate dimensions : 86 x 146 mm
5	7360 42	4 gang – 2 way
5	7360 62	6 gang – 2 way

Pack	Cat. Nos.	Single pole push switch 10 A - 250 V~
		Conforms to BS EN 60669-1 : 2000
		Flush mounting back box : min. 16 mm deep Nominal plate dimensions : 86 x 86 mm
5	7360 14	1 gang – 2 way push switch

Pack	Cat. Nos.	Dimmer units - 230 V~
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
		Rotary dimming and push on/off For use with 230 V AC Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep Nominal plate dimensions : 86 x 86 mm
		Dimmers for use with tungsten filament lamps and good quality GU10 halogen lamps
1	7360 05	1 gang – 2 way 50 Hz 60 W-400 W push on/off rotary
		Dimmers for use with tungsten filament lamps, GU10 halogen lamps and low voltage systems using appropriate transformer
1	7360 03	1 gang – 2 way 50 Hz 40 W-250 W push on/off rotary
1	7360 04	2 gang – 2 way 50 Hz 40 W-250 W push on/off rotary

Pack	Cat. Nos.	Dimmer units - 230 V~ - electronic
		Conform to BS EN 60669-2-1 : 2000 and BS EN 55015
		Rotary dimming and push on/off For use with 230 V AC - 50-60 Hz Not suitable for fluorescent load Flush mounting back box : min. 25 mm deep
		Dimmers for use with tungsten filament lamps, good quality wire-wound transformers and compatible electronic transformers for low voltage loads(1)
		Nominal plate dimensions : 86 x 86 mm
1	7361 03	1 gang – 2 way 50 Hz 40 W-400 W push on/off rotary
1	7361 04	2 gang – 2 way 50 Hz 40 W-400 W push on/off rotary

(1) Can be used in conjunction with compatible electronic transformers for low voltage loads. It will be necessary to test that the dimmer mechanism is compatible with the electronic transformer identified for installation

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Tenby®
white (continued)



7360 15


7361 81


7360 18


7360 28


7361 91


7361 82


7360 17


7360 54

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Isolator switch 10 A - 250 V~ 3 pole

Conforms to BS EN 60669-2-4

With integrated padlockable safety block in OFF position
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 15	3 pole isolator switch

Double pole socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7361 81	1 gang – switched
10	7361 91	1 gang – switched with red power indicator

Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos.	
5	7361 82	2 gang – switched
5	7361 92	2 gang – switched with red power indicator

Single pole socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Conventional earth pin release shutter
Single earth terminal
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 18	1 gang – switched
10	7360 19	1 gang – switched with red power indicator

Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos.	
5	7360 28	2 gang – switched
5	7360 29	2 gang – switched with red power indicator

Unswitched socket outlets 13 A - 250 V~

Conform to BS 1363 - Part 2 : 1995

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 1 gang - 86 x 86 mm
2 gang - 86 x 146 mm

Pack	Cat. Nos.	
10	7360 17	1 gang – unswitched
5	7360 27	2 gang – unswitched

Socket outlets 15 A - 250 V~

Conform to BS 546 : 1950

Patented 3 pin safety shutter mechanism
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 54	1 gang – unswitched
10	7360 55	1 gang – switched

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Tenby®
white (continued)


7360 51


7360 41


7360 48


7360 49


7360 39



7360 47


7360 30

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Socket outlets 5 A - 250 V~

Conform to BS 546 : 1950

Patented 3 pin safety shutter mechanism
2 earth terminals
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 51	1 gang – unswitched
10	7360 52	1 gang – switched

Shaver socket

Conforms to BS EN 61558-2-5 : 1998
IP 24

For use with European, British, American and Australian 2 pin plugs
Screwless live and neutral terminals
Double wound isolating transformer
Automatic self-resetting overload feature
Plug insertion operates microswitch which energises transformer
Flush mounting back box : min. 47 mm deep
Nominal plate dimensions : 146 x 86 mm

Pack	Cat. Nos.	
1	7360 41	Supply : 230 V - 50/60 Hz Output : 230/120 V - 20 VA max.

Fused connection units 13 A - 250 V~(1)

Conform to BS 1363 - Part 4 : 1995

Fused 13 A (fuse supplied)
Fuse drawer retained by quarter turn catch, drawer padlockable in open position for safety
Use cord outlet accessory box Cat. No. 7300 53 for flush to wall external cord connection, (see p. 42)
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 38	Switched, DP with bottom cord outlet
10	7360 39	Switched, DP with bottom cord outlet + red power indicator
10	7360 37	Unswitched with bottom cord outlet

(1) Range of engraving available on most products, see table on p. 106

Double pole switches 20 A - 250 V~(1)

Conform to BS EN 60669-1 : 2000

Use cord outlet accessory box Cat. No. 7300 53 for flush to wall external cord connection, (see p. 42)
Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 48	20 A DP with bottom cord outlet
10	7360 46	20 A DP with bottom cord outlet marked “WATER HEATER”
10	7360 49	20 A DP with bottom cord outlet + red power indicator
10	7360 47	20 A DP with bottom cord outlet marked “WATER HEATER” + red power indicator
10	7360 45	20 A DP sink/bath dual switch + red power indicator

Cable outlet 20 A - 250 V~

Conforms to BS 5733 : 1995

Flush mounting back box : min. 25 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 30	20 A – with terminal block and outlet gland



Engraving available

see p. 106

(1) Range of engraving available on most products, see table on p. 106

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Tenby®
white (continued)



7360 77



7360 66



7360 75


7360 71



7360 53


7360 00


7360 96

Front plates : white thermoset
Terminal screws captive and backed off ready for cabling
Supplied with faceplate screw caps
Surface mounting boxes (p. 112)

Double pole switches 45 A - 250 V~

Pack	Cat. Nos.	
		Conform to BS EN 60669-1 : 2000 Flush mounting back box : min. 48 mm deep Nominal plate dimensions : 146 x 86 mm
5	7360 76	45 A DP
5	7360 77	45 A DP + red power indicator
		Nominal plate dimensions : 86 x 86 mm
10	7360 66	45 A DP
10	7360 67	45 A DP + red power indicator

Cooker control units

Conform to BS 4177 : 1992
45 A - 250 V~ double pole switch with
13 A - 250 V~ double pole switched socket outlet
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 86 x 146 mm

Pack	Cat. Nos.	
5	7360 74	DP with DP switched socket
5	7360 75	DP with DP switched socket + red power indicator

Cable outlet 45 A - 250 V~

Conforms to BS 5733 : 1995
2 piece design for safety
Flush mounting back box : min. 48 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
5	7360 80	45 A – with terminal block

TV, radio and satellite sockets

Pack	Cat. Nos.	
		Flush mounting back box : min. 35 mm deep Nominal plate dimensions : 86 x 86 mm
10	7360 71	Screened TV – single, male Non-isolated
1	7360 70	Screened satellite – single, 'F' type
10	7360 72	Screened TV + FM Isolated
10	7360 53	Screened TV + 'F' type satellite Non-isolated

Telephone sockets

Shuttered
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
10	7360 00	Single master
10	7360 01	Single secondary

Data sockets

CAT 6 compliant
UTP
Rapid cable connection
Flush mounting back box : min. 35 mm deep
Nominal plate dimensions : 86 x 86 mm

Pack	Cat. Nos.	
1	7360 95	RJ45 – single
1	7360 96	RJ45 – double

Blanking plates

Pack	Cat. Nos.	
10	7360 07	1 gang - 86 x 86 mm
10	7360 08	2 gang - 86 x 146 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Tenby®
white (continued)

■ Tenby white standard engraving

20 A DP SWITCHES		
Engraving	**Without neon**	**With neon**
AIR CONDITIONER	7360 48AC	7360 49AC
APPLIANCE	7360 48AP	7360 49AP
BELL	7360 48BL	7360 49BL
Bell symbol	7360 48BY	7360 49BY
CENTRAL HEATING	7360 48CG	7360 49CG
COOKER HOOD	7360 48CH	7360 49CH
DISHWASHER	7360 48DW	7360 49DW
EXTRACTOR	7360 48EX	7360 49EX
EXTRACTOR HOOD	7360 48EH	7360 49EH
FAN	7360 48FN	7360 49FN
Fan symbol	7360 48FY	7360 49FY
FREEZER	7360 48FZ	7360 49FZ
FRIDGE	7360 48FR	7360 49FR
FRIDGE FREEZER	7360 48FF	7360 49FF
HEATER	7360 48HR	7360 49HR
HOB	7360 48HB	7360 49HB
MICROWAVE	7360 48MW	7360 49MW
ON / OFF	7360 48OO	7360 49OO
OVEN	7360 48OV	7360 49OV
TOWEL RAIL	7360 48TR	7360 49TR
TUMBLE DRYER	7360 48TD	7360 49TD
WASHER DRYER	7360 48WD	7360 49WD
WASHING MACHINE	7360 48WM	7360 49WM
WATER HEATER	7360 48WH	7360 49WH

13 A FUSED CONNECTION UNITS			
Engraving	**Switched**	**Switched with neon**	**Unswitched**
AIR CONDITIONER	7360 38AC	7360 39AC	7360 37AC
APPLIANCE	7360 38AP	7360 39AP	7360 37AP
BELL	7360 38BL	7360 39BL	7360 37BL
Bell symbol	7360 38BY	7360 39BY	7360 37BY
CENTRAL HEATING	7360 38CG	7360 39CG	7360 37CG
COOKER HOOD	7360 38CH	7360 39CH	7360 37CH
DISHWASHER	7360 38DW	7360 39DW	7360 37DW
EXTRACTOR	7360 38EX	7360 39EX	7360 37EX
EXTRACTOR HOOD	7360 38EH	7360 39EH	7360 37EH
FAN	7360 38FN	7360 39FN	7360 37FN
Fan symbol	7360 38FY	7360 39FY	7360 37FY
FREEZER	7360 38FZ	7360 39FZ	7360 37FZ
FRIDGE	7360 38FR	7360 39FR	7360 37FR
FRIDGE FREEZER	7360 38FF	7360 39FF	7360 37FF
HEATER	7360 38HR	7360 39HR	7360 37HR
HOB	7360 38HB	7360 39HB	7360 37HB
MICROWAVE	7360 38MW	7360 39MW	7360 37MW
ON / OFF	7360 38OO	7360 39OO	7360 37OO
OVEN	7360 38OV	7360 39OV	7360 37OV
TOWEL RAIL	7360 38TR	7360 39TR	7360 37TR
TUMBLE DRYER	7360 38TD	7360 39TD	7360 37TD
WASHER DRYER	7360 38WD	7360 39WD	7360 37WD
WASHING MACHINE	7360 38WM	7360 39WM	7360 37WM
WATER HEATER	7360 38WH	7360 39WH	7360 37WH

Full box quantities only - Pack quantity 10
Engraved markings differ slightly from pad printed markings appearing elsewhere in the catalogue. For lead times of above engravings, please contact us on 0845 605 4333

other accessories


7811



7815


7822


7832

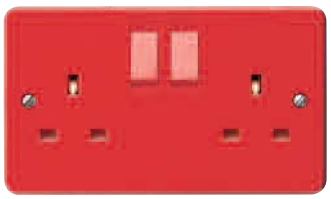

1200

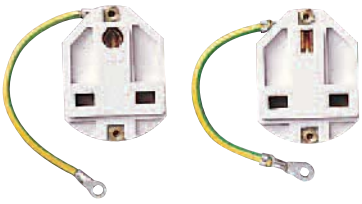

0816 59

Pack	Cat. Nos.	
		Tenby clipper switches 10 AX
		Conform to BS 3676 : Part 1 Concealed fixing screws For flush mounting, see boxes p. 113 For surface mounting, see boxes p. 112 Dimensions : 86 x 86 mm Fixing centres : 60·3 mm
	White	
10	7811	1 gang – 1 way SP
10	7812	1 gang – 2 way SP
10	7814	1 gang – push switch SP (6 AX only)
10	7815	1 gang – TP switch marked ‘ON-OFF’ and fan symbol
10	7822	2 gang – 2 way SP
10	7832	3 gang – 2 way SP
		Neon plate switch locator
		Clear plastic moulding plus 2 neon lamps Emits a soft green glow which assists the location of switch in the dark Not suitable for use with fluorescent or energy saving lamps Dimensions : 98 x 98 mm
1	1200	For use with 1, 2 and 3 gang plate switches
		Saxonguard RCD spur unit
		Conforms to BS 7288 and BS 1363 : Part 4 Passive : mechanical latching - does NOT trip on power failure Flush mounting in box Cat. No. 0891 10 Dimensions : 86 x 86 mm
1	0816 59	1 gang spur unit 30 mA

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

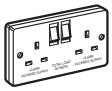
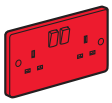
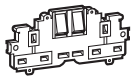
other accessories (continued)


7082RED


7057 7058


7063


INT7082

Pack	Cat. Nos.	
		Tenby 13 A filtered sockets
		Conforms to BS 1363 : Part 2 Dimensions : 86 x 146 mm Fixing centres : 120·6 mm
1	F7082	 2 gang DP switched 2 earth terminals
		Tenby 13 A red socket outlet
		Conforms to BS 1363 : Part 1 All terminals are 'in-line' for easy installation For flush mounting, see boxes p. 113 For surface mounting, see boxes p. 112 Dimensions : 86 x 146 mm Fixing centres : 120·6 mm
5	7082RED	 2 gang DP switched 2 earth terminals
		Panel mounting sockets
		Can be used for mounting into the user's own purpose-made panels, trunking, etc
20	7057	 BS 5733, non-standard earth pin with earth lead(1)
20	7058	 BS 1363, 13 A standard configuration with earth lead
20	7058NL	 BS 1363, 13 A standard configuration No earth lead
20	7063	 BS 1363, 13 A standard configuration with earth lead Round fascia
20	7064	 BS 5733, non-standard earth pin with earth lead(1) Round fascia
20	7065	 BS 546, 15 A No earth lead Round fascia
20	INT7082	 BS 1363, 13 A 2 gang DP switched socket interior 2 earth terminals

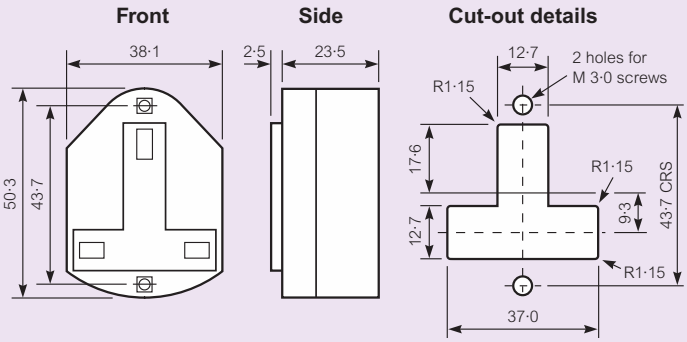
(1) Conforms also to BS 1363 Part 2, where relevant
For details of suitable non-standard earth pin plug, see p. 108

other accessories

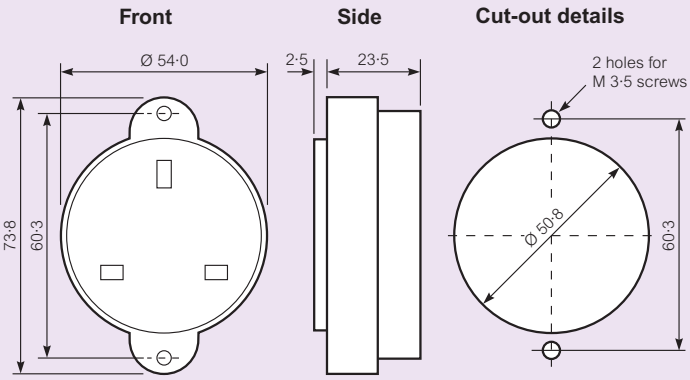
■ Panel mounting socket outlets

In order to be compliant with their relevant standards, these accessories must be fitted to a faceplate or panel giving the required surrounding flat area around the socket outlets
For details of cut-out dimensions, see below

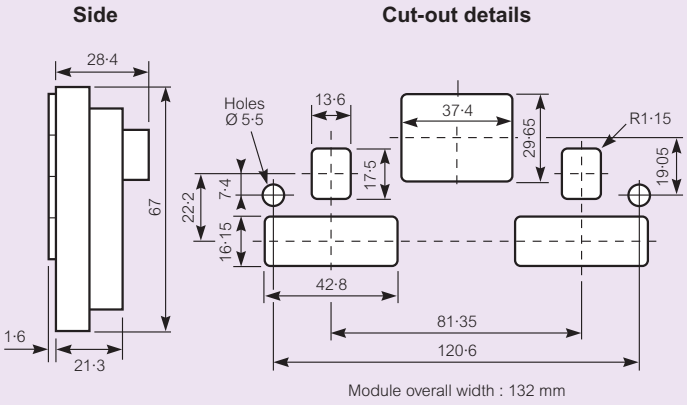
Cat. Nos. 7057 and 7058/7058NL



Cat. Nos. 7063/7064 and 7065



Cat. No. INT7082



All dimensions in mm. Maximum panel thickness 1·5 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

ceiling switches


0611 10


0611 31


0611 26 + 8204 60


7768

7545

Pack	Cat. Nos.	Ceiling switches
		Conform to BS EN 60669-1 Clearly embossed terminal markings Thermoplastic material resulting in increased mechanical strength Quick snap on cover mouldings with easily detachable cord for installation/security
		Dimensions : 80 mm diameter Fixing centres : 50·8 mm
		Mains voltage – white
10	0611 10	6 A – 250 V∿ SP one way with 1·5 m white cord
10	0611 11	6 A – 250 V∿ SP two way with 1·5 m white cord
10	0611 30	16 A – 250 V∿ DP one way with 1·5 m white cord
10	0611 31	16 A – 250 V∿ DP + neon one way with 1·5 m white cord
		Extra low voltage (cord not supplied)
10	0611 25	Pull to make/pull to break (non-latching)(1)
10	0611 26	Pull to make/pull to break with 28 V indicator and orange lens (non-latching)(1)

		Ceiling switch 50 A DP - 250 V∿
		Conforms to BS EN 607669 - 1 Positive ON/OFF flag indicator Red neon indicator Suitable for ceiling or wall mounting For flush mounting, use box Cat. No. 0891 17
		Dimensions : 86 x 86 mm Fixing centres : 60·3 mm
10	7545	50 A DP ceiling switch
10	7768	Surface box for Cat. No. 7545 - depth 47 mm

		Accessories
10	0611 49	White replacement cord 1·5 m
10	8204 60	Orange cord 2·3 m and orange acorn
250	8204 69	White adaptor

(1) Outside the scope of BS EN 60669-1

international standard plugs and junction boxes


0503 03


0515 32


0502 04


0502 82


6745 32


0808 73


810

Pack	Cat. Nos.	International standard plugs(1)
		Franco-German standard plug
20	0503 03	2 P + E 10/16 A – 250 V∿ (USE – VDE – CEBEC)
		Italian standard plug
20	0515 32	2 P + E 10 A
		American standard plugs
20	0502 04	2 P 15 A – 125 V – straight outlet
10	0502 82	2 P + E 15 A – 125 V

		13 A non-standard earth pin plug
20	6745 32	2 P + E non-standard round earth pin

		Junction boxes
		Conform to BS 6220 Impact resistant nylon cover and thermoset plastic body Selective entry Nominal capacity : • 20 A – 2·5 mm² terminal capacity • 30 A – 4 mm² terminal capacity
	White	
10	0808 72	20 A – 4 terminals
10	0808 73	20 A – 6 terminals
10	0808 75	30 A – 3 terminals

		Tenby 10 way connection unit
5	810	Surface mounting connection unit

(1) For more information on international standards contact BSI : see p. 504

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Perfect protection from the original earth clamp



> Instantly recognisable, Tenby earth clamps have been protecting people since their first incarnation in 1962 and occupy the position of clear market leader in the UK where millions of units are sold every year.

> The range is produced to consistently high standards by automatic assembly and is available in three types as shown below :



Non-corrosive, dry atmospheres
Maximum earth conductor : 1 x 10 mm²



Corrosive or humid atmospheres
Maximum earth conductor : 1 x 10 mm²



Corrosive or humid atmospheres
Maximum earth conductor : 2 x 16 mm²

Tenby® Rapid clamps



EC14



EC15/2



EC16/3

Conform to BS 951
Available in three types :
Red (EC14) for dry, non corrosive atmosphere
Blue (EC15) for corrosive or humid conditions
Green (EC16) for corrosive or humid conditions, large earth conductors
3 standard band lengths to suit pipe diameters of 12-32 mm,
32-50 mm or 50-75 mm

Pack	Cat. Nos.	**Earthing clamps for dry conditions**
		Terminal size : A – D (2·5 – 10 mm²) Maximum earth conductor 1 x 10 mm²
20	EC14	For pipe diameter 12 – 32 mm
20	EC14/2	For pipe diameter 32 – 50 mm
20	EC14/3	For pipe diameter 50 – 75 mm

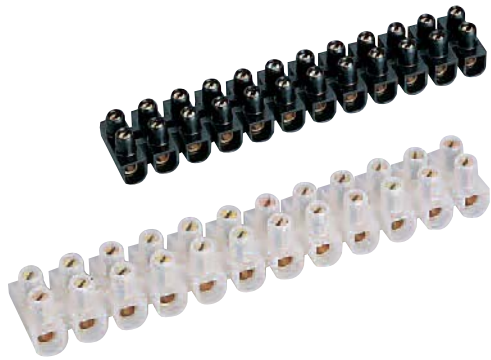
		Earthing clamps for all conditions
		Terminal size : A – D (2·5 – 10 mm²) Maximum earth conductor 1 x 10 mm²
20	EC15	For pipe diameter 12 – 32 mm
20	EC15/2	For pipe diameter 32 – 50 mm
20	EC15/3	For pipe diameter 50 – 75 mm

		Earthing clamps for all conditions
		Terminal size : A – E (2·5 – 16 mm²) Maximum earth conductor 2 x 16 mm²
20	EC16	For pipe diameter 12 – 32 mm
20	EC16/2	For pipe diameter 32 – 50 mm
20	EC16/3	For pipe diameter 50 – 75 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

NYLBLOC™ AUTO

terminal strips and terminal blocks
Nylbloc




0343 22

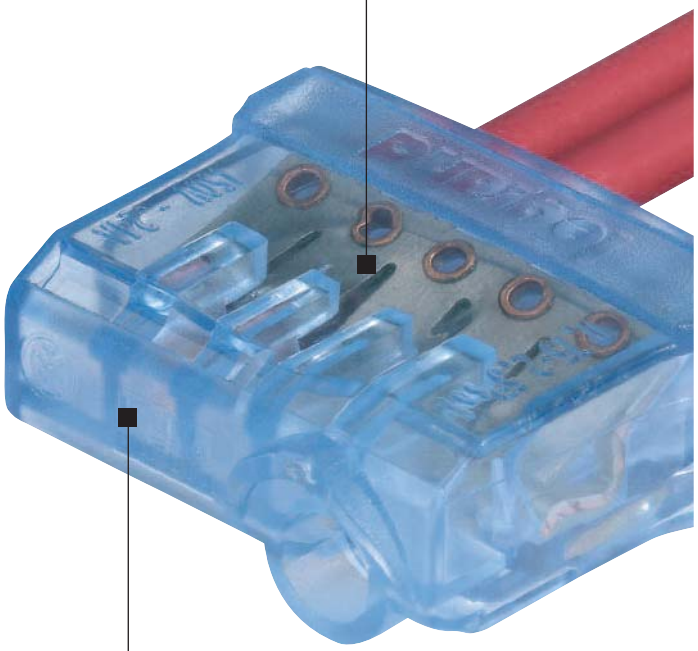

0343 23


0343 25


0343 28


0343 98 (with 1 x 0343 25)

> See a clear view of each wire with individual blades for maximum grip



> Push firmly into place to establish connection

> Feel the contact as the cable is securely connected

SIMPLICITY AND SPEED

> Screwless terminals are becoming increasingly popular as a flexible and reliable way to reduce installation times

> With a compact and ergonomic design, these products are used principally in junction boxes, lighting fixtures and for power distribution applications

Nylbloc

12 way strips with captive screws
Conform to BS EN 60998
Supplied with screws open
Polypropylene –25 °C to +100 °C (temperature)
Ambient temperature –25 °C to +55 °C

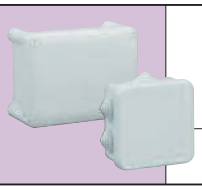
Pack	Cat. Nos.	Capacity (mm²)	Nom. rating (A)	Diameter Ø	Current max. (A)	Dimensions (mm)
	Black					
10	0342 11	4	2·5	2·5	24	15·6 x 94 x 12·3
10	0342 13	6	6	3·5	41	18 x 107 x 14·4
10	0342 15	10	10	4·5	57	20·8 x 135·1 x 17·4
10	0342 17	16	16	5·5	76	24·2 x 156·8 x 22·5
10	0342 19	25	25	7	101	33 x 214 x 27·5
	White					
10	0342 21	4	2·5	2·5	24	15·6 x 94 x 12·3
10	0342 23	6	6	3·5	41	18 x 107 x 14·4
10	0342 25	10	10	4·5	57	20·8 x 135 x 17·4
10	0342 27	16	16	5·5	76	24·2 x 156·8 x 22·5

Nylbloc auto IP 2x

Screwless push connection for pre-stripped cable ends : 0·75 to 2·5 mm diameter
Cables independently gripped
Transparent casing to ensure correct connection
Colour coded to allow distinction between sizes
Test point for screwdriver or security test probe
Offers +50% timesaving compared with traditional products

- polycarbonate casing
- ambient working temperature – 25 °C to +55 °C
- conform to EN 60998-2-2
- 24 A - 450 V~

Pack	Cat. Nos.	
		Screwless terminal blocks
100	0343 22	Grey terminal for 2 conductors 24 A/450 V~
100	0343 23	Orange terminal for 3 conductors 24 A/450 V~
100	0343 25	Blue terminal for 5 conductors 24 A/450 V~
50	0343 28	Grey terminal for 8 conductors 24 A/450 V~
		Support for screwless terminal blocks
10	0343 98	For the arrangement and support of 3 screwless terminal blocks Fixes directly to the side of boxes ≥ 130 x 130 mm or base of boxes ≥ 105 x 105 mm (for boxes, see p. 409) Provision for labelling with marker pen



For industrial boxes

see p. 409

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

service items



Pack	Cat. Nos.	Tenby porcelain block connectors
50	SP1	5 A – 1 way
100	SP2	5 A – 2 way
100	SP3	5 A – 3 way
100	SP4	5 A – 2 way with centre fixing hole
100	LP1	15/30 A – 1 way
50	LP2	15/30 A – 2 way
25	LP3	15/30 A – 3 way
50	LP4	15/30 A – 2 way with centre fixing hole
10	LP62	60 A – 2 way

		Tenby moulded strip connectors – 12 way
		12 way strips
10	712	5 A – rigid black, 80 °C max
10	812	15 A – rigid black, 80 °C max
10	912	30 A – rigid black, 80 °C max
10	703	2 A – flexible black, 60 °C max
10	704	2 A – flexible clear, 60 °C max
10	713	5 A – flexible black, 60 °C max
10	714	5 A – flexible clear, 60 °C max
10	813	15 A – flexible black, 60 °C max
10	814	15 A – flexible clear, 60 °C max
10	913	30 A – flexible black, 60 °C max
10	914	30 A – flexible clear, 60 °C max
10	923	60 A – flexible black, 60 °C max
10	715	5 A – flexible polyamid clear, 100 °C max
10	815	15 A – flexible polyamid clear, 100 °C max
10	915	30 A – flexible polyamid clear, 100 °C max

		Tenby PVC grommets
200	GP1	Open type 5/8 in. (16 mm)
100	GP2	Open type 3/4 in. (20 mm)
100	GP3	Open type 1 in. (25 mm)
50	GP4	Open type 1 1/4 in. (32 mm)
50	GP5	Open type 1 1/2 in. (38 mm)
25	GP6	Open type 2 in. (50 mm)
100	GP10	Blind type 5/8 in. (16 mm)
100	GP11	Blind type 3/4 in. (16 mm)
100	GP12	Blind type 1 in. (25 mm)
50	GP13	Blind type 1 1/4 in. (32 mm)
50	GP14	Blind type 1 1/2 in. (38 mm)
20	GP15	Blind type 2 in. (50 mm)

When flush mounting isn't an option...

Synergy enables you to combine its metal-clad back boxes with its traditional selection of wiring accessories to provide surface mounting options with a decorative touch.

This perfect partnership gives you durability with even more style... and a perfect flush profile between accessory and back box.

All in all, much more than just a pretty face.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

surface mounting metal boxes
for Synergy®


7364 00


7364 01

Pack	Cat. Nos.	Surface mounting metal boxes
		Only suitable for use with Synergy metalclad, traditional and Synergy grid system metal plates Conform to BS 5733 where applicable Material : grey epoxy coated steel
		Depth 37 mm
		Dimensions : 86 x 86 mm
30	7364 00	1 gang With knockouts
30	7364 20	1 gang Without knockouts
		Dimensions : 86 x 146 mm
20	7364 01	2 gang With knockouts
20	7364 21	2 gang Without knockouts
		Dimensions : 146 x 146 mm
1	7364 18	6/8 module grid With knockouts
1	7364 22	6/8 module grid Without knockouts
		Dimensions : 207 x 146 mm
1	7364 28	9/12 module grid With knockouts
1	7364 32	9/12 module grid Without knockouts

		Spare fixing screws
		Nickel plated
100	1042N	M3·5 x 30 mm
100	1043N	M3·5 x 38 mm
100	1044N	M3·5 x 50 mm

		Security fixing screws
		For standard plates
100	1041TZ	M 3·5 x 25 mm, 6 lobe, bright zinc plate
100	1042TZ	M 3·5 x 30 mm, 6 lobe, bright zinc plate
1	1045T	6 lobe screwdriver bit for M 3·5 screws above
		For Synergy grid plates
100	2076NP	M 2·5 x 8 mm, tri-wing, bright zinc plate
100	2076	M 2·5 x 8 mm, tri-wing, electro brass plate
1	2077	Tri-wing screwdriver bit for M 2·5 screws above

surface mounting moulded boxes
for Synergy® and Tenby® white


7364 06


7364 07


7364 11


7364 13

Pack	Cat. Nos.	Surface mounting moulded boxes - thermoset
		Conform to BS 5733 Material : white thermoset Mini trunking knockouts located around periphery of boxes
		Dimensions : 1 gang - 87 x 87 mm 2 gang - 87 x 147 mm
10	7364 03	1 gang - depth 16 mm With earth terminal
10	7364 06	1 gang - depth 35 mm
10	7364 07	1 gang - depth 47 mm
5	7364 08	2 gang - depth 16 mm
5	7364 10	2 gang - depth 35 mm
5	7364 11	2 gang - depth 47 mm
5	7364 13	2 x 1 gang - depth 35 mm

		Surface mounting moulded boxes - PVC
		Conform to BS 5733 Material : PVC
		Dimensions : 1 gang - 87 x 87 mm 2 gang - 87 x 147 mm
10	7313	1 gang - depth 35 mm
5	7314	2 gang - depth 35 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

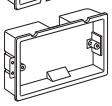
flush mounting moulded boxes



0893 12



0893 13

Pack	Cat. Nos.	Quickfix flush mounting back boxes
		Conform to BS 4662 where applicable Material : polypropylene Spring loaded lugs accommodate plaster board or other materials ranging from 6 to 20 mm thickness
		Depth 32 mm
20	0893 12	 1 gang
10	0893 13	 2 gang

flush mounting steel back boxes



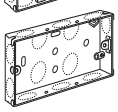
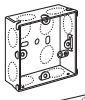
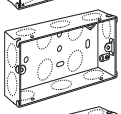
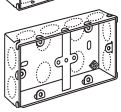
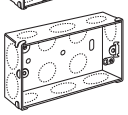
0891 10



0891 13



0891 11

Pack	Cat. Nos.	Switch and socket flush mounting back boxes
		Conform to BS 4662 Material : galvanised steel Top, side and back knockout entries according to type of box
		Depth 16 mm
200	0891 09	 1 gang with 1 fixed lug, 1 adjustable lug and 1 earth terminal
		Depth 25 mm
100	0891 10	 1 gang with 3 fixed lugs, 1 adjustable lug and 1 earth terminal
60	0891 11	 2 gang with 1 fixed lug, 1 adjustable lug and 1 earth terminal
		Depth 35 mm
100	0891 13	 1 gang with 3 fixed lugs, 1 adjustable lug and 1 earth terminal
40	0891 14	 2 gang with 1 fixed lug, 1 adjustable lug and 1 earth terminal
40	0891 40	 Dual box with 2 earth terminals Accepts 2 single gang accessories
		Depth 48 mm
50	0891 17	 1 gang with 3 fixed lugs, 1 adjustable lug and 1 earth terminal
50	0891 18	 2 gang with 1 fixed lug, 1 adjustable lug and 1 earth terminal

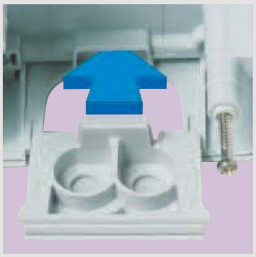
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Plexo 55 and 66... safety in numbers

Whatever the weather, Plexo offers IP 55 and IP 66 solutions for any application. Both ranges have the seal of approval for all commercial and residential needs... from homes and gardens to hospitals, laboratories and leisure centres.

PLEXO 55

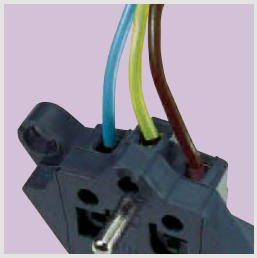
This comprehensive range contains a wide variety of IP 55 rated products with unique installation features.



Fixing screw passages are completely covered by entry glands for weatherproof protection



Clip-in mechanism facilitates connection to tails



Backed-off captive terminal screws and shrouded terminals for speed and safety



Products are supplied with cover latches in the open position to facilitate installation

PLEXO 66

Offering even greater protection against dust and liquids, Plexo 66 ensures safety and peace of mind by delivering maintained IP 66 protection... even with moulded plugs inserted.



RCBO protection for maximum user safety



Silicon groove and cable entry with memory for a perfect fit



Concealed fixing screws and soft touch switch mechanisms



Unique socket design that accepts moulded plugs even with the lid closed



Two ranges, one common goal... perfect protection wherever you need it. Together Plexo 55 and 66 provide a complete weatherproof solution with modular housings that accommodate the vast range of Mosaic devices

ibemo Kazakhstan, 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Plexo 66
grey - surface mounting weatherproof wiring accessories


6846 03

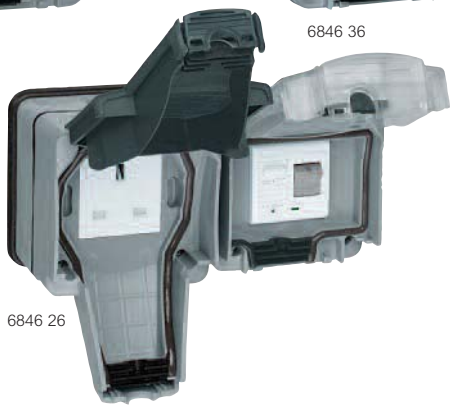

6846 05


6846 45


6846 36

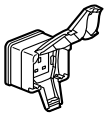
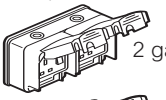
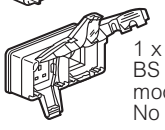

6846 19


6846 35

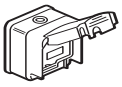

6846 26

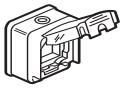
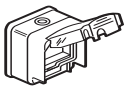
IP 66 - IK 08
Grey RAL 7016 / TO 29
Polypropylene/ABS housing
Temperature rating : –20 to +40 °C (+50 °C for short periods)
Provision for 20 mm dia. conduit entries (side and rear)
Stainless steel captive terminal screws supplied in backed-off position

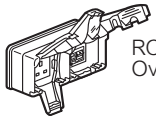
Pack	Cat. Nos.	Switches and push button - 250 V~	
		20 A switches	
	Grey	Conform to BS EN 60669-1 Fitted with rear gasket with groove to deposit silicone	
1	6846 03		1 gang – 2 way SP
1	6846 04		2 gang – 2 way SP
1	6846 05		1 gang – 2 way SP + lens(1)
1	6846 06		1 gang – 1 way DP + lens(1)
		6 A push button	
1	6846 12		1 gang – 2 way SP with “PRESS”

Pack	Cat. Nos.	13 A - 250 V~ socket outlets	
	Grey	Conform to BS 1363 : Part 2 Fitted with rear gasket with groove to deposit silicone	
1	6846 19		1 gang unswitched
1	6846 29		2 gang switched
1	6846 35		1 x 13 A unswitched socket outlet to BS 1363 requiring Mosaic control module (not supplied)(2) No additional yoke required

(1) Use lamps Cat. Nos. 0899 01/02/07 for locator usage
Use lamp Cat. No. 0899 06 for indicator usage
(2) For full range of Mosaic control switches, see p. 86-92

Pack	Cat. Nos.	13 A - 250 V~ fused spur unit	
	Grey	Conforms to BS 1363 : Part 4 Fitted with rear gasket with groove to deposit silicone	
1	6846 45		1 gang DP switched

Pack	Cat. Nos.	Mosaic adaptors	
	Grey	Fitted with rear gasket with groove to deposit silicone No additional yoke required	
1	6846 36		2 module adaptor with semi-transparent lid
1	6846 38		3 module adaptor with semi-transparent lid

Pack	Cat. Nos.	RCBO protected 13 A socket outlet	
	Grey	Conforms to IEC 1009-2-2 and BS 1363 : Part 2	
1	6846 26		RCBO : 30 mA, 230 V~ Overcurrent : Type C curve

Pack	Cat. Nos.	British Standard 13 A socket	
		Shuttered for child safety Mosaic modular unit(1) 13 A - BS 1363 : Part 2	
10	0741 40		2 P + ⏚ ASTA approved

Pack	Cat. Nos.	ISO M20 cable gland	
25	0980 03		Cable gland IP 68

(1) For full details and range of Mosaic modules, see p. 86-92

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Plexo 55
weatherproof wiring accessories


0916 05


0916 07


0916 43


0916 61


0916 27


0916 03

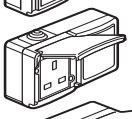
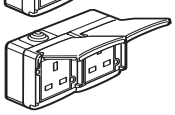

0917 97

IP 55 - IK 07
Grey RAL 7035 / 7016
Polycarbonate/polypropylene housing
Temp. rating : –20 to +40 °C (+50 °C for short periods)
Supplied with 1 flat + 1 stepped gland
Captive terminal screws supplied in backed-off position

Pack	Cat. Nos.	Switches 10 A - 250 V~	
		Conform to BS EN 60669-1	
10	0916 05		1 gang – 2 way SP
10	0916 07		2 gang – 2 way SP
10	0916 71		1 gang – 2 way SP + lens(1)
10	0916 01		1 gang – 1 way DP
1	0916 10		1 gang – SP intermediate

Pack	Cat. Nos.	Push buttons - 250 V~	
		Can be illuminated with lamps, Cat. No. 0899 01/02/07 Supplied without lamps (see p. 117)	
10	0916 12		2 A (normally open)
10	0916 27		6 A – 2 way SP (N/O and N/C contacts)

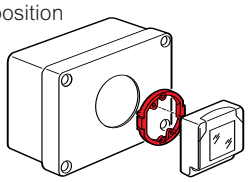
Pack	Cat. Nos.	Time lag switch with lens(1) 230 V~ – 50/60 Hz	
1	0916 03		6 A - Time period adjustable from 30 sec to 6 min 30 sec (supplied in 3 min 30 sec position) Supplied without lamp (see p. 117) 1 380 W incandescent and halogen 230 V 1 380 W resistive (e.g. : heating) 400 VA fluorescent and 300 VA halogen ELV

Pack	Cat. Nos.	Socket outlets 13 A - 250 V~	
		IP 55 - IK 07 to BS EN 60529 Conform to BS 1363 : Part 2	
10	0916 43		1 gang – 13 A socket
5	0916 60		2 gang – 10 A switch and 13 A socket
5	0916 61		2 gang – two 13 A sockets
10	0917 43		Panel mounting 1 gang – 13 A socket Requires bezel Cat. No. 0917 97 below

Pack	Cat. Nos.	Modular support frame IP 55 - IK 05	
		To receive Mosaic modules (max. 2 modules)	
10	0917 30		Panel mounting 1 gang Requires bezel Cat. No. 0917 97 below

Pack	Cat. Nos.	Modular back box IP 55 - IK 07	
10	0917 51		Back box with membrane gland and 2 entries for Cat. Nos. 0917 30 and 0917 43 above

Pack	Cat. Nos.	Panel mounting bezel	
		For the panel mounting of socket Cat. No. 0917 43 and the Plexo 55 modular support frame Clips into 63·5 mm circular aperture Suitable for panel thickness 1·5 to 5 mm Socket rotatable to desired position Maintains IP 55 rating Supplied with fixing screws	
10	0917 97		Standard pack
100	0917 38		Bulk pack



(1) Use lamps Cat. Nos. 0899 01/02/07 for locator usage
Use lamp Cat. No. 0899 06 for indicator usage

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

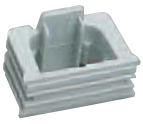
Plexo 55
weatherproof wiring accessories (continued)


0916 16


0916 22


0916 74 + 0898 40 + 0916 75


0916 86


0916 91


0916 93


0916 94


0916 76 0916 77 0916 78 0916 79


0899 02


0899 06


0899 07


0898 40

IP 55 - IK 07
Grey RAL 7035 / 7016
Polycarbonate/polypropylene housing
Temp. rating : –20 to +40 °C (+50 °C for short periods)
Supplied with 1 flat + 1 stepped gland
Captive terminal screws supplied in backed-off position

Pack	Cat. Nos.	
		Mushroom head push buttons 10 A - 250 V∿
		Supplied with "emergency stop" label in 6 languages
1	0916 16	Emergency stop N/C contact Yellow cover – red button
1	0916 17	Emergency stop N/C + N/O contact Yellow cover – red button Supplied with RONIS key No. 455
1	0916 18	Emergency stop N/C + N/O contact Yellow cover – red button Stay put 1/4 turn release
		Key operated switches 10 A - 250 V∿
		Supplied with label and RONIS key No. 455
1	0916 21	2 positions "0 - I" 2 N/O contacts Key removable in both positions
1	0916 22	3 positions "I - 0 - II" 2 N/O contacts Key removable in all 3 positions
		Empty box
10	0916 90	Supplied with cord grip
		Pilot light
10	0916 74	Accepts E10 lamps - 5 W max. Supplied without lamps (see opposite) Supplied without diffusers (see below)
		Diffusers for pilot light
10	0916 75	Colourless
10	0916 76	Green
10	0916 77	Orange
10	0916 78	Red
10	0916 79	Blue

Pack	Cat. Nos.	
		Photo-electric dawn/dusk switch
1	0916 86	Switches light on at dusk and off again at dawn Adjustable switching threshold between 0·5 and 2 000 lux 1 400 W incandescent - 400 VA fluorescent Supplied with cable gland and fixing bracket
		Auxiliary photo-electric cell
1	0916 87	For use with modular light sensitive switch Cat. No. 0037 21 (see p. 374) Supplied in Plexo 55 IP 55 - IK 07 housing
		Conduit and entry glands
10	0916 91	Coupling gland
10	0916 93	20 mm smooth conduit gland
10	0916 94	Stepped gland
10	0916 95	Gland for flat twin and earth cable
10	0916 96	Gland for 20 mm threaded conduit
		Lamps
		For switches and push buttons
		For indicator and locator usage Supplied with rapid connection device for neutral wire
10	0899 01	12 V
10	0899 02	24 V
		For indicator usage 230 V∿ **Bright orange neon**
10	0899 06	Supplied with rapid connection device for neutral wire
		For locator usage 230 V∿ **Low consumption green fluorescent**
10	0899 07	For time lag switch, push buttons, etc.
	E10	**E10 for pilot light**
10	0898 36	12 V | 5 W
10	0898 37	24 V | 5 W
10	0898 38	48 V | 5 W
10	0898 40	230 V | 5 W

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

bathroom lighting
zoning



Pack	Cat. Nos.	
		Energy-saving shaver light IP 44 Conforms to BS EN 60598 Electronic ballast (IEC EN 61347) offers a further 25-30% energy saving over standard control gear Light source : 4 pin energy saving 18/24 W 2G lamp Projected 50% longer life span with immediate start-up, silent operation and flicker-free illumination Automatic switch off at end of the lamp's life Shuttered 2 pin shaver socket for use with European, British and American 2 pin plugs Double wound 20 VA isolating transformer Plexo grommet Suitable for Zone 2 bathroom installation Screwless terminal cabling supplied with 24W 2G 11
1	6915 09	Energy-saving shaver light Polycarbonate base with opal polycarbonate diffuser
		Shaver light IP 24 - IK 04 Conforms to BS EN 60598 Diffuser removal disconnects power supply to lamp Pull cord switch 2P shuttered socket 230 V - 20 VA isolating transformer Single voltage output 230 V Class II double isolated CE and marked Suitable for Zone 2 bathroom installation
1	6915 06	Shaver light supplied with 60 W - 230 V~ 284 mm double ended striplight S15 cap Ø 25 Polypropylene base with polycarbonate opal diffuser
		Mirror light IP 24 - IK 04 Matches shaver light above (Cat. No. 6915 06) Conforms to BS EN 60598 Diffuser removal disconnects power supply to lamp Pull cord switch Class II double isolated CE and marked Suitable for Zone 2 bathroom installation
1	6915 08	Mirror light supplied with 60 W - 230 V~ 284 mm double ended striplight S15 cap Ø 25 Polypropylene base with polycarbonate opal diffuser

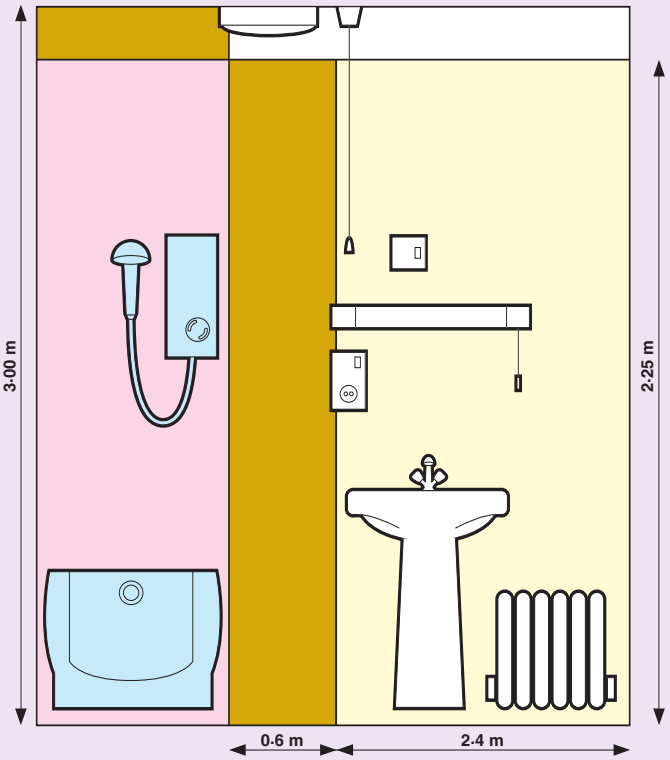


IP X4 Zone 2 bathroom bulkhead

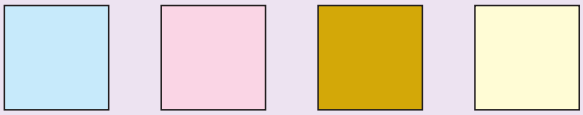
see p. 120

■ Understanding the regulations

To conform with IEE regulations, BS 7671 : 2001, all installations should use an IP X4 rated product in zone 2 of a standard bathroom or a room containing a shower



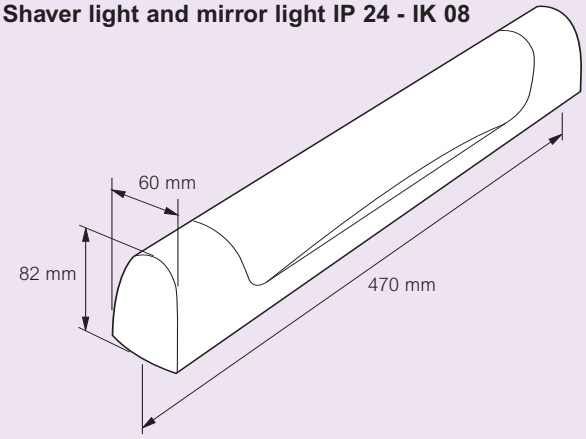
Typical bathroom showing BS 7671:2001 zones and dimensions



■ Energy-saving shaver light IP 44



■ Shaver light and mirror light IP 24 - IK 08



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

decorative bulkhead lighting
all polycarbonate


0621 58


0620 86


0620 93


0620 85


0620 68


0620 89

Dimensions (p. 120)

IP 55
Polycarbonate base self-extinguishing at 850 °C
Impact resistance opal polycarbonate diffuser
Class I fittings
Cover fixed with 3 posidrive screws
Diffuser held securely in place by base clips
Supplied complete with grommet
Multiple fixing points

Pack	Cat. Nos.	**Round bulkhead lights**
		Conform to BS EN 60598
		Fluorescent versions : • 230/240 V – 50 Hz • PLS or 2D fittings
		Lamps not supplied
		16 W 2D 2 pin GR8
1	0620 93	Vision – white
1	0620 83	Vision – black
1	0620 95	Phantom – white with visor
1	0620 85	Phantom – black with visor
		28 W 2D 4 pin GR10
1	0621 56	Vision – white
1	0621 58	Vision – black
		38 W 2D 4 pin GR10
1	0621 57	Vision – white

Pack	Cat. Nos.	**Oval bulkhead lights**
		Conform to BS EN 60598
		Fluorescent versions : • 230/240 V – 50 Hz • PLS or 2D fittings
		Lamps not supplied
		2 x 9 W PLS 2 pin G23
1	0620 86	Vision – white
1	0620 66	Vision – black
1	0620 88	Phantom – white with horizontal visor
1	0620 68	Phantom – black with horizontal visor
1	0620 89	Phantom – white with vertical visor

		Accessories for all decorative bulkhead lights (except Cat. Nos. 0621 75/76)
30	0621 53	Vandal resistant screws – black
1	0919 45	Special tool for vandal resistant screws


0919 45
tool for vandal resistant screws

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

decorative and weatherproof bulkhead lighting

decorative and weatherproof bulkhead lighting



0621 76



6604 20



6604 17



6604 18

Dimensions (opposite)

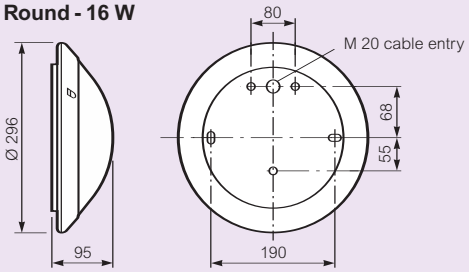
Pack	Cat. Nos.	**Decorative round bulkhead lights**
		IP 44 - IK 07 Conform to BS EN 60598-2-1 White polypropylene body Glass diffuser Continuous use in all positions 230 V∿ - 50 Hz Lamp not supplied
1	0621 76	E27 100 W – Class II 0
1	0621 75	G23 cap – 2 x 9 W PLS 2 pin – Class I

Pack	With clear diffuser	With red diffuser	**Plexo bulkhead lights**
			IP 54 - IK 08 Hinged polycarbonate diffuser Top/bottom reversible opening Lamp not supplied
1/5	6604 17	6604 18	75 W incandescent B22 lampholder

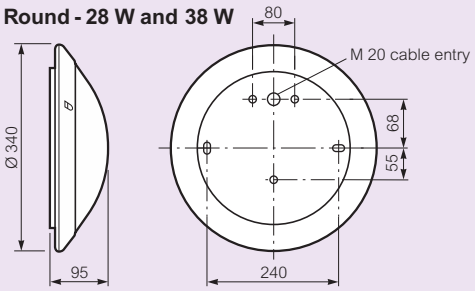
Pack	With charcoal body	With white body	**Surface mounting bulkhead lights**
			IP 54 - IK 08 Conform to BS EN 60598-1 Class II ⧈ (double insulated) Polycarbonate base with a pre-formed BESA cable entry box Lampholders mounted on a removable hinged geartray Left/right reversible opening Supplied with Plexo cable gland Through wiring or terminal connection (at side or rear) Self-extinguishing at 850 °C Polycarbonate diffuser, hinge mounted Lamp not supplied
1/5	6604 20	6604 21	100 W incandescent B22 lampholder

■ Decorative bulkhead lights

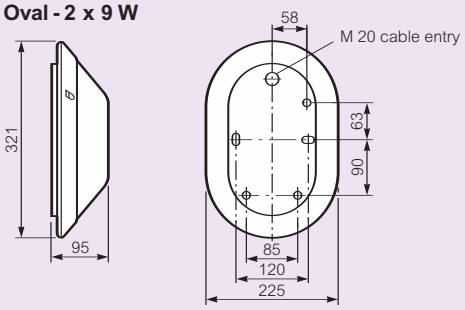
Round - 16 W



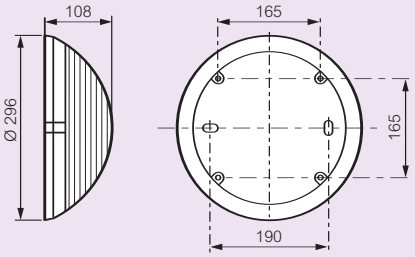
Round - 28 W and 38 W



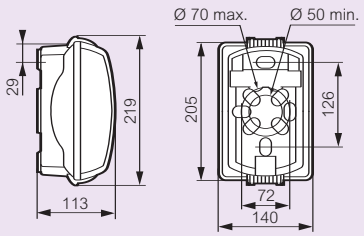
Oval - 2 x 9 W



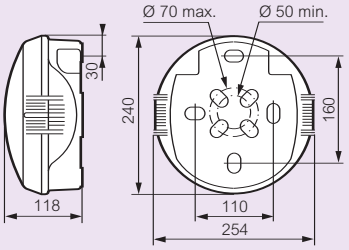
Round (Cat. Nos. 0621 75/76)



■ Plexo bulkhead lights (Cat. Nos. 6604 17/18)



■ Surface mounting bulkhead lights (Cat. Nos. 6604 20/21)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

ceiling accessories
lampholders, pendant sets and ceiling rose


0600 65


0600 55


0600 61


0600 77


0600 56


0600 58


0600 64


0601 94

Pack	Cat. Nos.	Standard lampholders
		T2 rated to BS EN 61184
	White	Heat resistant glass fibre reinforced PET(1) one-piece lampholder body
20	0600 65	B22 lampholder – short skirt
		Standard batten lampholders
		T2 rated to BS EN 61184
	White	Incorporate lampholders above, plus : Angled terminal block with clear polycarbonate shroud Heat resistant tails to IEC 60227
10	0600 55	B22 lampholder – straight/short skirt 8 in-line terminals with captive screws plus earth
10	0600 56	B22 lampholder – straight/H.O. skirt 8 in-line terminals with captive screws plus earth
10	0600 58	B22 lampholder – angled/H.O. skirt
10	8617	B22 lampholder – straight/H.O. skirt 3 terminals
		Standard lampholder and tails
		T2 rated to BS EN 61184
	White	As pendant sets, minus ceiling rose
20	0600 61	6 inch drop – short skirt lampholder
20	0600 62	6 inch drop – H.O. skirt lampholder
20	0600 64	9 inch drop – H.O. skirt lampholder

Pack	Cat. Nos.	Standard pendant sets
		T2 rated to BS EN 61184
		Combination of ceiling rose (see below) and previous lampholder with length of two core 0·75 mm² PVC circular flexible cable plus : Angled terminal block with clear polycarbonate shroud 8 in-line terminals with captive screws plus earth
	White	Heat resistant tails to IEC 60227
10	0600 75	6 inch drop – short skirt lampholder
10	0600 77	9 inch drop – short skirt lampholder
10	0600 78	9 inch drop – H.O. skirt lampholder
10	8662	12 inch drop – short skirt lampholder
		Ceiling rose and halo
		Conforms to BS 67
		Angled terminal block with clear polycarbonate shroud 8 in-line terminals with captive screws and earth terminal
	White	
20	0601 94	Ceiling rose
30	7601	Halo 110 mm dia.
		Accessories
	White	
10	1000	Lampholder short skirt
10	1001	Lampholder H.O. skirt

(1) PET – Polyethylene Terephthalate

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

ceiling accessories
safety lampholders and pendant sets


6603 07


0600 81


0600 85


0600 86


0600 84


8204 90


0600 90

Pack	Cat. Nos.	Energy-saving pendant set
		Conforms to EN 61000-3-2, EN 50082-1, EN 55015, EN 60929, EN 61547, EN 60928 and BS 67
		Supply voltage 230 - 240 V Mains frequency 50 Hz To be used with 13/18 W 4 pin plug-in lamps only Dimming is not possible Ceiling rose has angled terminal block with clear polycarbonate shroud 8 in-line terminals with captive screws and earth terminal
	White	
10	6603 07	3 inch drop – energy-saving 13/18 W pendant set Lamp not supplied

Pack	Cat. Nos.	Safety lampholders
		T2 rated to BS 7895
		Heat resistant glass fibre reinforced PET(1) one-piece lampholder body Safety lampholders feature automatic isolation of brass plungers following lamp removal Plungers cannot be made live again unless lamp is in place
	White	
20	0600 81	B22 lampholder – short skirt
20	0600 84	B22 lampholder – H.O. protective skirt

Pack	Cat. Nos.	Safety lampholder + tails
	White	T2 rated to BS 7895
20	8204 90	Safety lampholder + 6 inch tails

Pack	Cat. Nos.	Safety batten lampholders
		T2 rated to BS 7895
		Incorporate previous safety lampholders, plus : Angled terminal block with clear polycarbonate shroud Heat resistant tails to IEC 60227
	White	
10	0600 85	B22 lampholder – straight/short skirt 8 in-line terminals with captive screws plus earth
10	0600 86	B22 lampholder – straight/H.O. skirt 8 in-line terminals with captive screws plus earth
10	0600 87	B22 lampholder – angled/short skirt 8 in-line terminals with captive screws plus earth
10	7617	B22 lampholder – straight/H.O. skirt 3 terminals
10	7619	B22 lampholder – angled/H.O. skirt 8 in-line terminals with captive screws plus earth

Pack	Cat. Nos.	Safety pendant sets
		T2 rated to BS 7895
		Combination of ceiling rose (p. 121) and previous safety lampholder with length of two core 0·75 mm² PVC circular flexible cable, plus : Angled terminal block with clear polycarbonate shroud 8 in-line terminals with captive screws and Heat resistant tails to IEC 60227
	White	
10	0600 89	6 inch drop – short skirt lampholder
10	0600 90	6 inch drop – H.O. skirt lampholder
10	0600 94	9 inch drop – short skirt lampholder
10	0600 96	9 inch drop – H.O. skirt lampholder
10	7662	12 inch drop – short skirt lampholder

(1) PET – Polyethylene Terephthalate

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salsa® chimes



0416 05



0416 25

Pack	Cat. Nos.	Salsa 2 note electromechanical chimes
		Solo
		Class III[1] Tone level : 77 dB at 1 m
	White	Dimensions : 120 x 104 x 42 mm
1	0416 04	9 V **alkaline** battery operated (not supplied)
1	0416 05	8 V∿, transformer only[2]
		Concerto
		Tone level : 80 dB at 1 m
	White	Dimensions : 177 x 104 x 45 mm
1	0416 25	8 V∿[2] or 9 V **alkaline** battery (not supplied) Class III[1]

(1) Very low safety voltage
(2) Use with transformer Cat. No. 0420 25

bell pushes, bells and transformer



0408 01



0416 46



0412 19



0420 25

Pack	Cat. Nos.	Surface mounting bell pushes
		Installation using two 3 mm dia. screws (supplied captive in base) Screw heads are concealed under clip-on cover Dimensions : 51 x 25 x 15 mm
20	0408 01	White
		IP 30 - Class III[1] Horizontal or vertical installation Fixing screws not supplied Dimensions : 50 x 25 x 20 mm
5	0416 46	White

		Bells with cover
		Surface mounting with levelling facility Tone level : 79 dB at 1 m
	White	Dimensions : 95 x 61 x 33 mm
1	0412 19	8 V∿ 50/60 Hz[2] - Class III[1]
1	0412 43	230 V∿ 50/60 Hz - Class II with built-in transformer

		Safety isolating transformer
		Conforms to BS 3535-1 and BS EN 60742
		Surface mounting, double insulated ⧈
	White	Dimensions : 92 x 56 x 42 mm
1	0420 25	230 V∿ primary 8, 12 V∿ secondary at 1 A

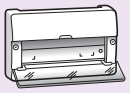
(1) Very low safety voltage

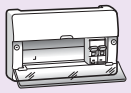
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

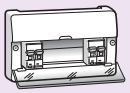


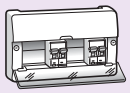
Home circuit protection

Consumer units

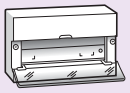

P. 128 Insulated custom build surface mounting

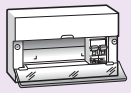

P. 128 Insulated with incomer surface mounting

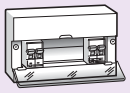

P. 128 Insulated split load surface mounting

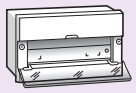

P. 128 Insulated split load dual tariff surface mounting


P. 131 Insulated dimensions


P. 129 Metal custom build surface mounting

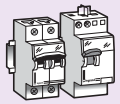

P. 129 Metal with incomer surface mounting

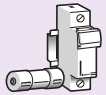

P. 129 Metal split load surface mounting

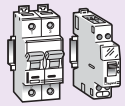

P. 129 Metal custom build flush mounting


P. 132 Metal dimensions


P. 129 Accessories


P. 130 MCBs, RCDs and RCBOs


P. 130 Fuse carriers and fuses


P. 130 Isolating switches and contactors


P. 130 Transformers

Supply units IP 55


P. 133 Garage/outbuilding supply units


P. 133 Electric shower supply units

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Simplifying the 17th Edition

Understanding new regulations is never easy... that's why we've tried to make it as simple as possible.

To comply with the 17th Edition, we've launched a new dual RCD split load unit which is available in insulated or metal versions with 10 or 16 outgoing ways.



Existing units can be easily upgraded for a 17th Edition installation by replacing MCBs with RCBOs on unprotected ways.

RCD* protection for increased safety, especially for the end-user in domestic installations... plus reduced likelihood of unwanted tripping by sensibly dividing the installation.

(*with a rated residual current not exceeding 30 mA – Reg. 415.1.1)

Summary of changes

Regulation : 411.3.3

Summary : Socket outlets for general use in domestic installations require additional protection by an RCD*

Regulation : 522.6.6
522.6.7

Summary : Cables buried in a wall or partition at a depth of less than 50 mm and not mechanically protected by appropriate earthed metal require additional protection by an RCD*

Regulation : 701.411.3.3

Summary : All circuits in locations containing a bath or shower shall be protected by one or more RCDs*

Regulation : 314.1

Summary : All circuits of an installation should not be connected to a single upstream RCD* in order to avoid unwanted tripping, hazards and minimise inconvenience in the event of a fault

* not exceeding 30 mA



Dual RCD split load



Select MCBs to complete installation



Split load



Select MCBs and RCBOs to complete installation



Main switch incomer



Select RCBOs to complete installation



RCD incomer (ideal for immersion heating)



Select MCBs to complete installation

Note : Smoke alarm circuits should be protected by a different RCD to socket outlet circuits. Ideally, this should be the RCD protecting lighting circuits to provide the advantage of unlikely disconnection for any prolonged period (Building Regulations Part B)

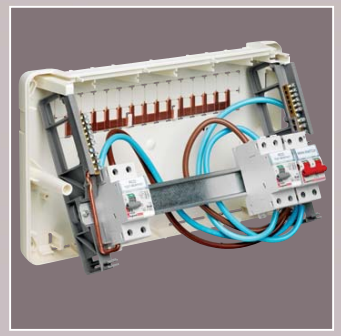
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

A flexible approach to safety

With an array of design innovations and practical features making them easy to install, Legrand's consumer units save valuable time and money during installation... allowing you to reflect on the generous wiring space and the all-round extra protection.



Combining elegance with efficiency
Designed to match today's modern decor, the units offer a streamlined appearance allied with magnolia cases, allowing them to blend perfectly into their surroundings.



Features include a removable pan assembly, earth terminal holder that simply clips into place, and multiple cut-outs on the unit's back, bottom, top and sides.



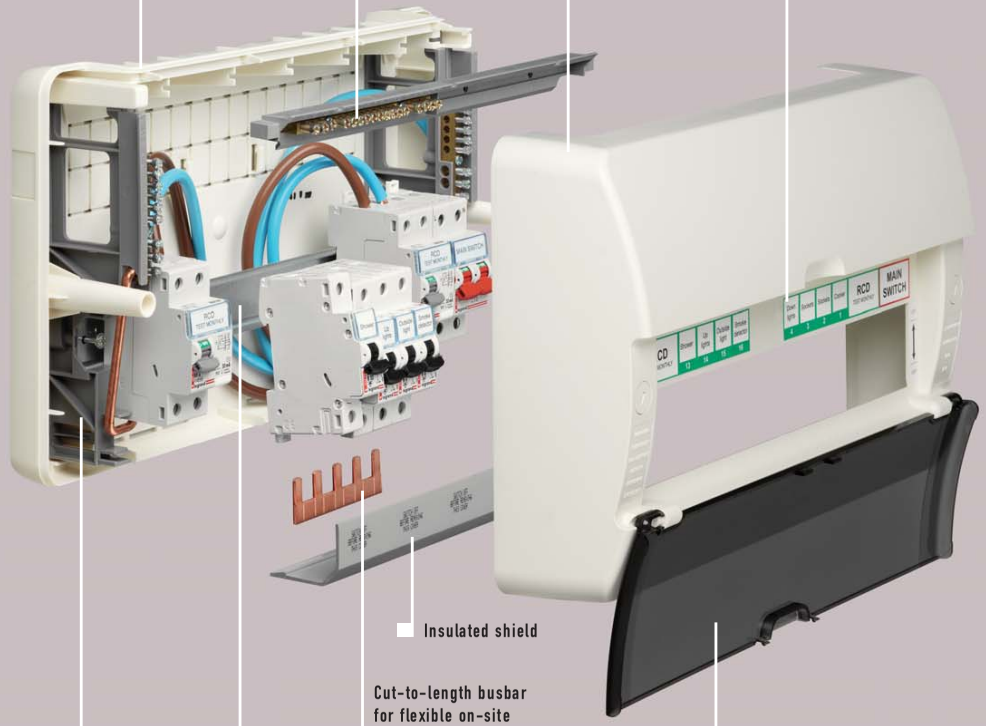




The units are supported by a selection of residential DX-E MCBs, offering faster installation with a single fixing clip and simple labelling using the pre-scored, pre-printed labels supplied with each consumer unit.

Design innovations

Simplifying installation and improving end user safety



Complete safety and peace of mind for installer and end user alike

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

consumer units
insulated and metal

Insulated consumer units

Conform to BS EN 60439-3. Magnolia colour. Smoked transparent door opens downwards
Supplied with neutral and earth terminals completely assembled. Supplied with 5 module spare blank plate
Factory fitted link leads for both neutral and live connections. Configurable outgoing ways
Self-extinguishing at 750 °C. UL 94 V2 material for improved flame retardancy. Robust thermoplastic construction. 4 fixing holes

Dimensions (p. 9-10)

	Total outgoing ways							
	6	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Dual RCD split load 100 A main switch and 2 x 80 A 30 mA RCD	–	–	6075 54	–	–	6075 56	–	–
Split load 100 A main switch and 80 A 30 mA RCD	–	6075 32	6075 33	6075 34	–	6075 35	6075 36	–
Main switch incomer 100 A main switch	6075 11	–	6075 12	–	6075 14	–	–	6075 16
RCD incomer 80 A 30 mA RCD	6075 21	–	6075 22	–	–	–	–	–

Metal consumer units

Conform to BS EN 60439-3. Magnolia colour. Smoked transparent door opens downwards
Supplied with neutral and earth terminals completely assembled. Supplied with 5 module spare blank plate
Factory fitted link leads for both neutral and live connections. Configurable outgoing ways
Pre-galvanised steel for strength and rigidity. Epoxy/polyester powder coated base and lid

Dimensions (p. 10-11)

	Total outgoing ways							
	6	**8**	**10**	**12**	**14**	**16**	**18**	**20**
Dual RCD split load 100 A main switch and 2 x 80 A 30 mA RCD	–	–	6065 54 6065 64(1)	–	–	6065 56	–	–
Split load 100 A main switch and 80 A 30 mA RCD	–	6065 32	–	6065 34	–	–	6065 36	–
Main switch incomer 100 A main switch	6065 11	–	6065 12	–	6065 14	–	–	6065 16
RCD incomer 80 A 30 mA RCD	6065 21	–	6065 22	–	–	–	–	–

(1) Flush mounting

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

protection devices
MCBs and RCBOs

DX-E residential MCBs - 6 kA
Breaking capacity :
6 kA to BS EN 60898-1

RCBOs (combined MCB/RCD)
Breaking capacity :
10 kA to BS EN 61009-1

RCD type AC conform to
BS EN 61009-1

Terminal capacity :
rigid conductor 35 mm^2
flexible conductor 25 mm^2

DX-E residential MCBs - 6 kA
Single pole - 230/400 V ∿



0032 70

RCBOs (combined MCB/RCD)
Single pole and neutral - 230/400 V ∿



0077 31

Nominal rating (In)	Number of 17.5 mm modules	B curve	C curve	Number of 17.5 mm modules	30 mA B curve	30 mA C curve
6 A	1	0032 66	0033 82	2	0077 31	0077 38
10 A	1	0032 68	0033 84	2	0077 32	0077 39
16 A	1	0032 70	0033 86	2	0077 33	0077 40
20 A	1	0032 71	0033 87	2	0077 34	0077 41
32 A	1	0032 73	0033 89	2	0077 36	0077 43
40 A	1	0032 74	0033 90	2	0077 37	0077 44
50 A	1	0032 75	0033 91	–	–	–
63 A	1	0032 76	0033 92	–	–	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

consumer units
insulated, metal and accessories


6075 54


6075 21



6065 54

Dimensions (p. 9-11)

Conform to BS EN 60439-3. Magnolia colour. Smoked transparent door opens downwards
Supplied with neutral and earth terminals completely assembled. Supplied with 5 module spare blank plate
Factory fitted link leads for both neutral and live connections. Configurable outgoing ways
Insulated units : Self-extinguishing at 750 °C. UL 94 V2 material for improved flame retardancy. Robust thermoplastic construction. 4 fixing holes
Metal units : Pre-galvanised steel for strength and rigidity. Epoxy/polyester powder coated base and lid

Pack	Cat. Nos.	Insulated dual RCD split load - surface mounting
		16 module unit (10 ways available)
1	6075 54	With 100 A main switch and 2 x 80 A 30 mA RCD
		22 module unit (16 ways available)
1	6075 56	With 100 A main switch and 2 x 80 A 30 mA RCD

Pack	Cat. Nos.	Insulated split load - surface mounting
		12 module unit (8 ways available)
1	6075 32	With 100 A main switch and 80 A 30 mA RCD
		14 module unit (10 ways available)
1	6075 33	With 100 A main switch and 80 A 30 mA RCD
		16 module unit (12 ways available)
1	6075 34	With 100 A main switch and 80 A 30 mA RCD
		20 module unit (16 ways available)
1	6075 35	With 100 A main switch and 80 A 30 mA RCD
		22 module unit (18 ways available)
1	6075 36	With 100 A main switch and 80 A 30 mA RCD

Pack	Cat. Nos.	Insulated with main switch incomer - surface mounting
		8 module unit (6 ways available)
1	6075 11	With 100 A main switch
		12 module unit (10 ways available)
1	6075 12	With 100 A main switch
		16 module unit (14 ways available)
1	6075 14	With 100 A main switch
		22 module unit (20 ways available)
1	6075 16	With 100 A main switch

Pack	Cat. Nos.	Insulated with RCD incomer - surface mounting
		8 module unit (6 ways available)
1	6075 21	With 80 A 30 mA RCD
		12 module unit (10 ways available)
1	6075 22	With 80 A 30 mA RCD

Pack	Cat. Nos.	Metal dual RCD split load - surface mounting
		16 module unit (10 ways available)
1	6065 54	With 100 A main switch and 2 x 80 A 30 mA RCD
		22 module unit (16 ways available)
1	6065 56	With 100 A main switch and 2 x 80 A 30 mA RCD

Pack	Cat. Nos.	Metal dual RCD split load - flush mounting
		16 module unit (10 ways available)
1	6065 64	With 100 A main switch and 2 x 80 A 30 mA RCD

Pack	Cat. Nos.	Metal split load - surface mounting
		12 module unit (8 ways available)
1	6065 32	With 100 A main switch and 80 A 30 mA RCD
		16 module unit (12 ways available)
1	6065 34	With 100 A main switch and 80 A 30 mA RCD
		22 module unit (18 ways available)
1	6065 36	With 100 A main switch and 80 A 30 mA RCD

Pack	Cat. Nos.	Metal with main switch incomer - surface mounting
		8 module unit (6 ways available)
1	6065 11	With 100 A main switch
		12 module unit (10 ways available)
1	6065 12	With 100 A main switch
		16 module unit (14 ways available)
1	6065 14	With 100 A main switch
		22 module unit (20 ways available)
1	6065 16	With 100 A main switch

Pack	Cat. Nos.	Metal with RCD incomer - surface mounting
		8 module unit (6 ways available)
1	6065 21	With 80 A 30 mA RCD
		12 module unit (10 ways available)
1	6065 22	With 80 A 30 mA RCD

Pack	Cat. Nos.	Accessories
		Spare blank plate
20	6075 89	5 modules - magnolia colour
		Spare busbar
5	6075 99	21 prongs

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

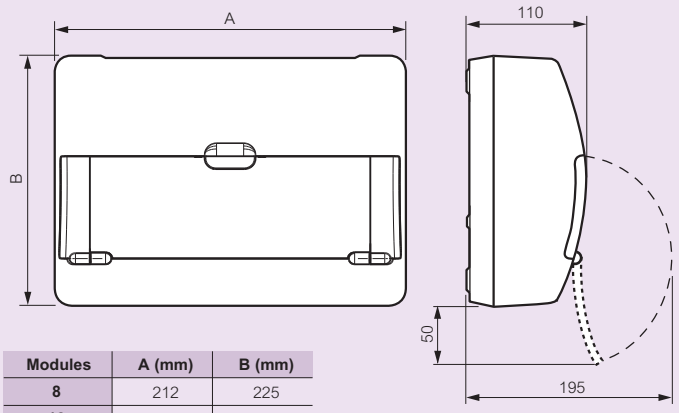
protection devices
MCBs and RCBOs


0032 73


0077 31

insulated consumer units
surface mounting

■ Insulated - surface mounting dimensions (mm)



Modules	A (mm)	B (mm)
8	212	225
12	298	225
14/16	370	225
20/22	478	225

DX-E residential MCBs - 6 kA

Breaking capacity : 6 kA to BS EN 60898-1

Single pole - 230/400 V ∿

Pack	Cat. Nos. B curve	Cat. Nos. C curve	Nominal rating (In)	Number of 17·5 mm modules
10	0032 66	0033 82	6 A	1
10	0032 68	0033 84	10 A	1
10	0032 70	0033 86	16 A	1
10	0032 71	0033 87	20 A	1
10	0032 73	0033 89	32 A	1
10	0032 74	0033 90	40 A	1
10	0032 75	0033 91	50 A	1
10	0032 76	0033 92	63 A	1

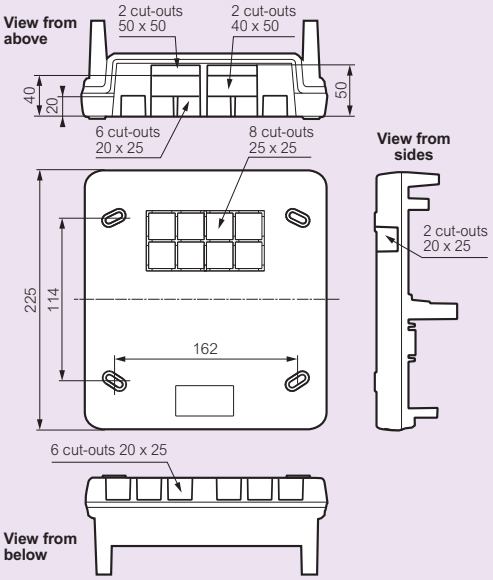
RCBOs (combined MCB/RCD)

Breaking capacity : 10 kA to BS EN 61009-1
RCD type AC conform to BS EN 61009-1
Terminal capacity : rigid conductor 35 mm²
flexible conductor 25 mm²

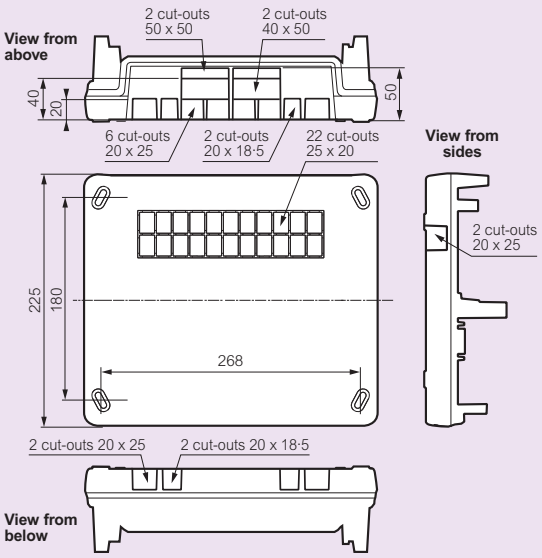
Single pole and neutral - 230/400 V ∿

Pack	Cat. Nos. B curve	Cat. Nos. C curve	Nominal rating (In)	Number of 17·5 mm modules
			30 mA	
1	0077 31	0077 38	6 A	2
1	0077 32	0077 39	10 A	2
1	0077 33	0077 40	16 A	2
1	0077 34	0077 41	20 A	2
1	0077 36	0077 43	32 A	2
1	0077 37	0077 44	40 A	2

■ 8 module unit
Back box fixing centres and cable entries (mm)

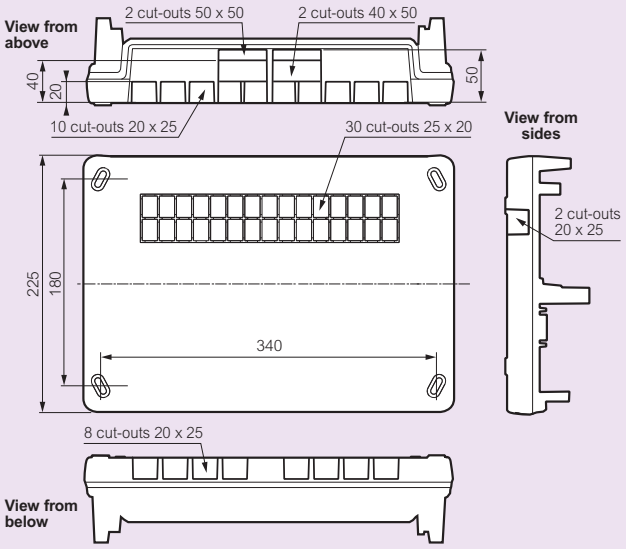


■ 12 module unit
Back box fixing centres and cable entries (mm)

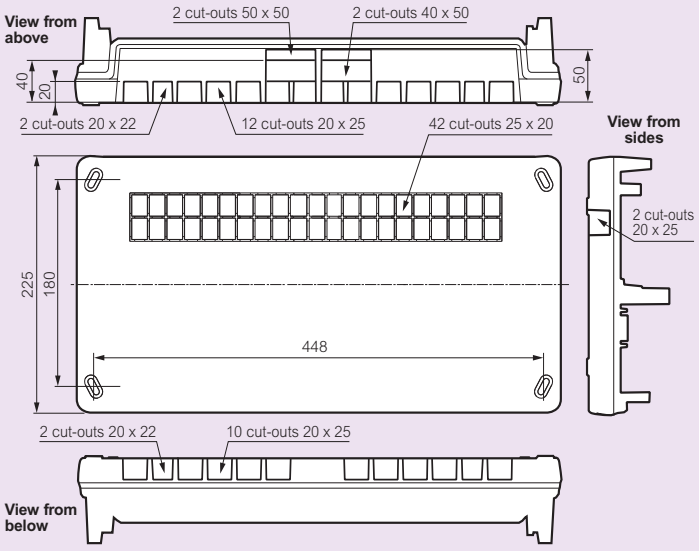


insulated consumer units
surface mounting (continued)

■ 14/16 module unit
Back box fixing centres and cable entries (mm)

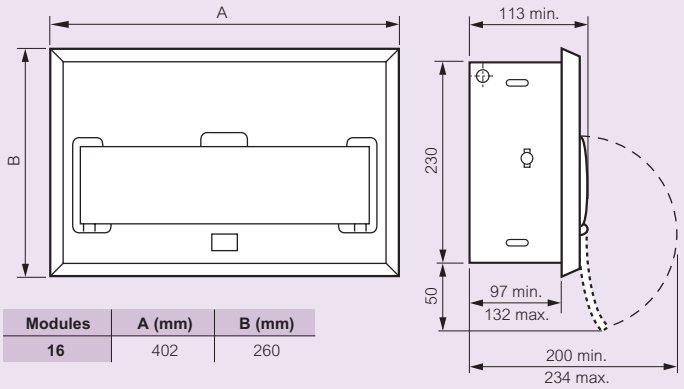


■ 20/22 module unit
Back box fixing centres and cable entries (mm)



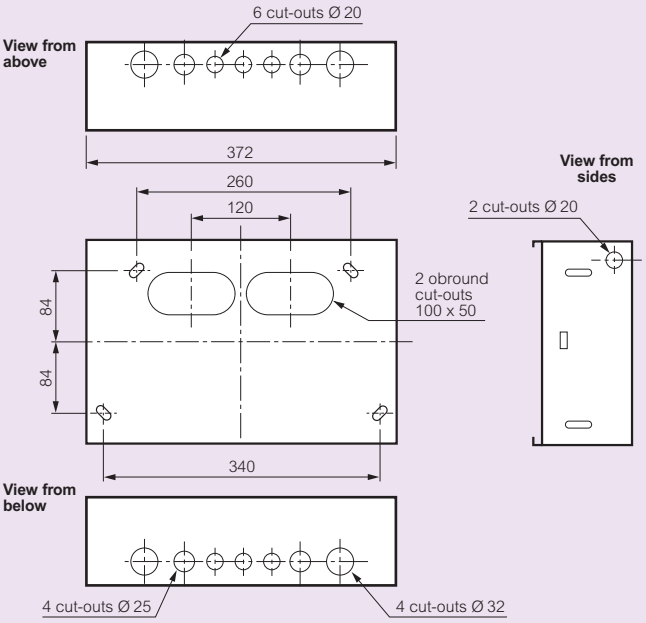
metal consumer units
flush mounting

■ Metal - flush mounting dimensions (mm)



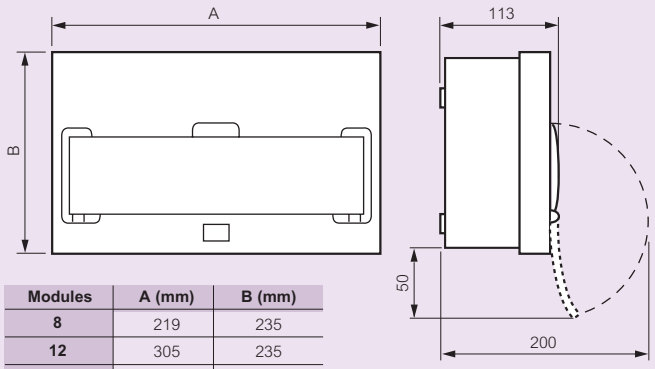
Modules	A (mm)	B (mm)
16	402	260

■ 16 module unit
Back box fixing centres and cable entries (mm)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

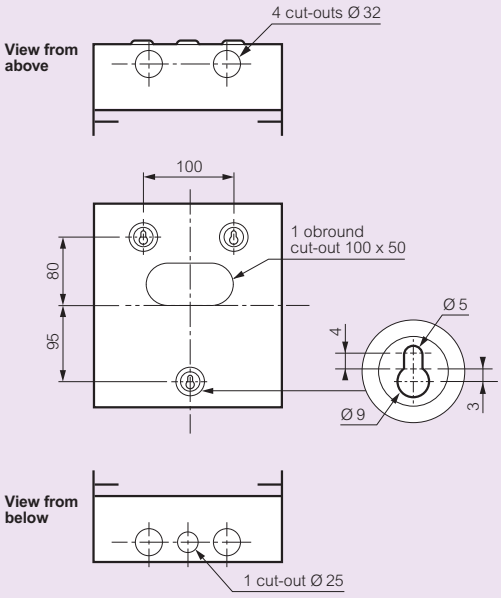
■ Metal - surface mounting dimensions (mm)



Modules	A (mm)	B (mm)
8	219	235
12	305	235
16	377	235
22	485	235

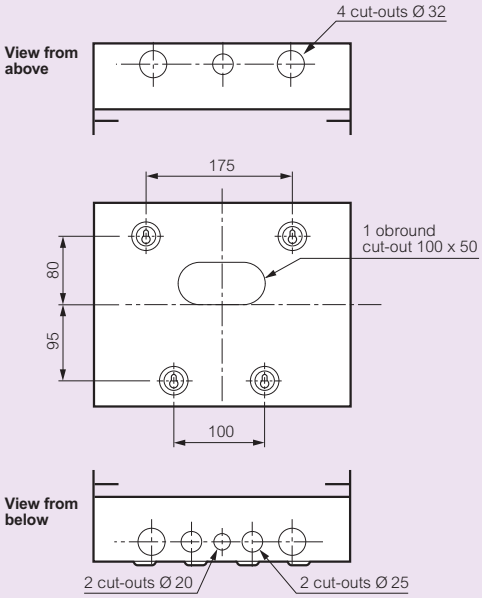
■ 8 module unit

Back box fixing centres and cable entries (mm)



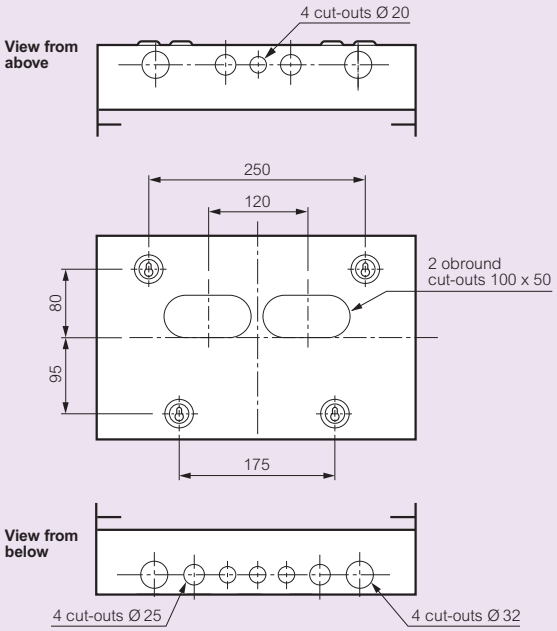
■ 12 module unit

Back box fixing centres and cable entries (mm)



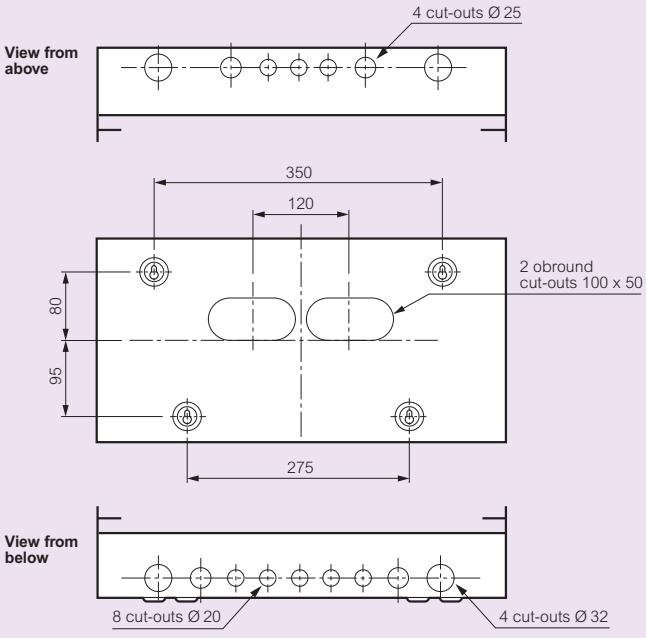
■ 16 module unit

Back box fixing centres and cable entries (mm)



■ 22 module unit

Back box fixing centres and cable entries (mm)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

supply units
IP 55



6059 19



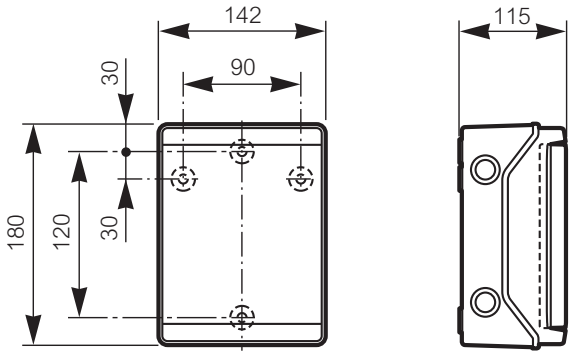
6059 12

IP 55
Box and cover in moulded material
Transparent, hinged, clip in to place cover
Sealable with screw Cat. No. 0017 68 (accepts anti-tamper seal)
Lockable with keylock Cat. No. 0017 66

Pack	Cat. Nos.	Garage/outbuilding supply units
1	6059 18	16 A and 6 A Type C MCB with 40 A 30 mA DP RCD incomer
1	6059 19	32 A and 6 A Type C MCB with 40 A 30 mA DP RCD incomer
		Electric shower supply units
1	6059 12	40 A 30 mA DP RCBO
1	6059 13	50 A 30 mA DP RCBO
		Accessories
1	0017 66	Lock and key
1	0017 69	Wall brackets (set of 4)
1	0017 68	Set of 2 sealing screws

Dimensions

Cat. Nos. 6059 12/13/18/19



zakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Cable management perimeter systems

DLP PVC-U trunking


P. 142 Dado 195 x 50 3 compartment


P. 143 Skirting 150 x 50 2 compartment


P. 144 Skirting 195 x 50 3 compartment


P. 145 Skirting 240 x 50 3 compartment


P. 146 Universal 105 x 35 1 compartment


P. 147 Universal 105 x 50 1 and 2 compartment


P. 149 Universal 195 x 50 2 and 3 compartment


P. 151 Universal 195 x 65 2 compartment


P. 152 Universal 240 x 50 3 compartment


P. 153 Universal 240 x 65 3 compartment

Rolfe King® aluminium trunking


P. 158 System 205 105 x 50 mm


P. 159 System 255 150 x 60 mm


P. 160 System 280 180 x 60 mm


P. 161 System 206 115 x 95 mm


P. 161 Rolfe King accessories


P. 164 System 155 150 x 58 mm


P. 165 System 180 175 x 69·5 mm


P. 166 System 155 and 180 service outlet plates and accessories

Steel perimeter trunking


P. 170 Skirting chamfer 2 and 3 compartment 150 x 50 mm


P. 171 Skirting chamfer 2 and 3 compartment 200 x 50 mm


P. 172 Dado chamfer 3 compartment 175 x 50 mm


P. 173 Dado square 2 and 3 compartment 150 x 50 mm


P. 174 Dado chamfer 3 compartment 200 x 50 mm


P. 175 Dado square 3 compartment 200 x 50 mm


P. 176 Bench trunking 2 compartment


P. 176 Pedestal units

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

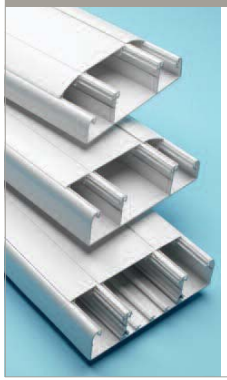
Cable management perimeter systems

Legrand offers the complete choice for power and data requirements around the perimeter of any commercial buildings. Fully integrated products to meet the most demanding requirements.






DLP PVC-U TRUNKING



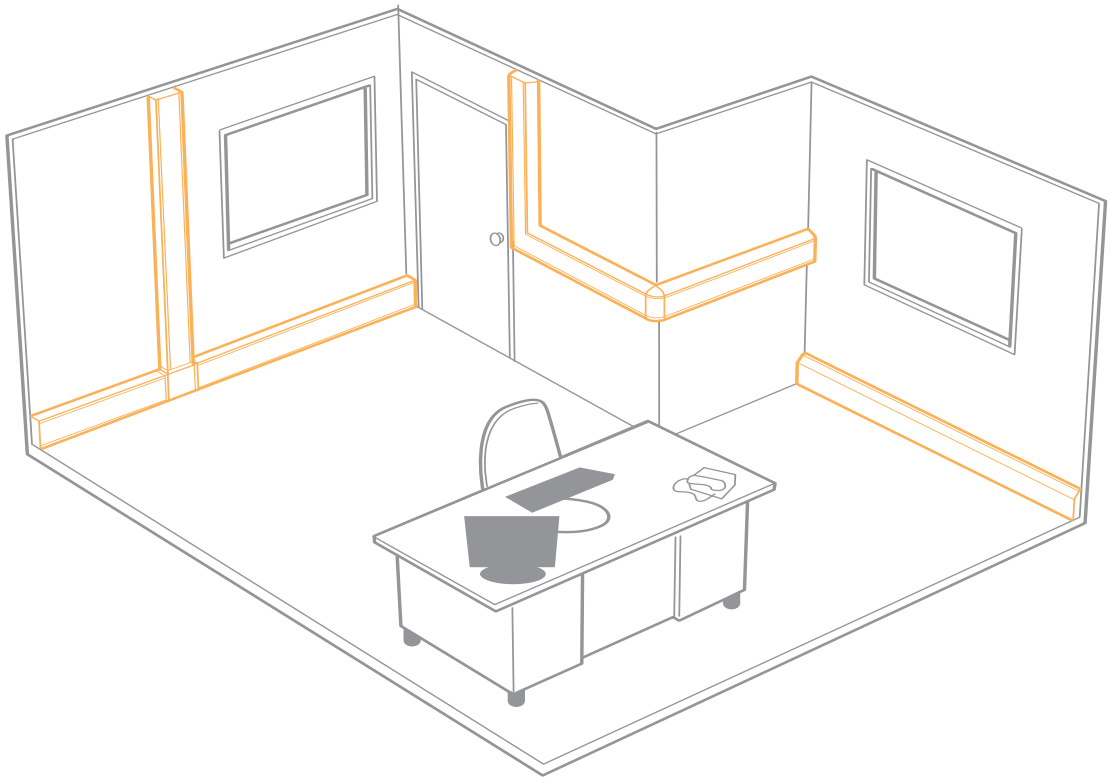
With its new concept flexible lid, DLP sets a new benchmark for commercial trunking... a more professional finish, installed in less time.

3 different profiles... dado, skirting and universal, each ensure the right configuration with the right look.

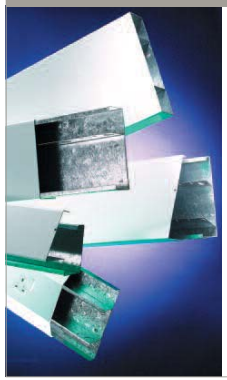
ROLFE KING ALUMINIUM TRUNKING



All aluminium construction with excellent screening properties. Rolfe King trunking is available in multiple sizes, colours and configurations... the obvious choice for prestigious developments where image is key.



STEEL PERIMETER TRUNKING



A selection of dado and skirting trunking with numerous styles and finishes... a durable system ideal for schools and laboratories where strength is a priority.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The flexible choice

DLP's crisp white colour and sleek design make it an obvious choice for any modern commercial installation. Every single component part has been specially designed to be as flexible and installer-friendly as possible.



New concept flexible lid creates a more professional finish in less time

A RANGE OF STYLES TO SUIT YOUR NEEDS

DLP is available in a choice of three different profiles... dado, skirting and universal. Each of which offers a selection of sizes to ensure the right configuration as well as the right look.



Dado



Skirting



Universal

DESIGN INNOVATION TO MAKE INSTALLATION EASIER

Versatility is the key to DLP... the perfect solution for any commercial environment. Its flexibility is admired by designers, installers and end users alike.



Clip-in/out back boxes for easy installation and maintenance



Adjustable corners compensate for non 90° walls



Unique flexible lid bends seamlessly around corners without needing to be cut

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

DLP trunking profiles and accessories

Section (mm)		Number of compartments		Page No.	Lid width (mm)	TRUNKING	FITTINGS			FITTINGS							
						Trunking	Couplers	End caps		Internal angles	External angles	Flat angles up	Flat angles down	Flat tees	Cable retainer	VDI accessories	Wall plates
DADO	195 x 50	3		p. 142	2 x 42 curved + 1 x 85	6204 55	6208 48	6207 13		6206 10	6206 30	6206 67	6206 67	6207 59(2)	6206 82	–	6206 99
SKIRTING	150 x 50	2		p. 143	1 x 42 curved + 1 x 85	6204 58	6208 46	6207 14		6206 18	6206 29	6206 43	6206 44	See below	6206 82	–	6206 98
	195 x 50	3		p. 144	1 x 42 curved + 1 x 85 + 1 x 40	6204 54	6208 47	6207 10		6206 18	6206 29	6206 65	6206 66	See below	6206 82	–	6206 99
	240 x 50	3		p. 145	1 x 42 curved + 2 x 85	6204 57	6208 55	6207 11		6206 18	6206 29	6206 68	6206 69	6207 58(2)	6206 82	–	–
UNIVERSAL	105 x 35	1		p. 146	1 x 85	6204 27	6208 37	6207 01		6206 01	6206 21	6206 51	6206 51	6207 31	6206 82	–	6206 98
	105 x 50	1		p. 147	1 x 85	6204 28	6208 38	6207 02		6206 02	6206 22	6206 52	6206 52	6207 32	6206 82	See below	6206 98
	150 x 50	2		p. 148	1 x 40 + 1 x 85	6204 44	6208 39	6207 16		6206 17	6206 28	6206 45	6206 46	See below	6206 82	See below	6206 98
	195 x 50	2		p. 149	2 x 85	6204 45	6208 43	6207 17		6206 17	6206 28	6206 47	6206 47	6207 47(2)	6206 82	See below	6206 99
	195 x 50	3		p. 150	2 x 40 + 1 x 85	6204 46	6208 44	6207 17		6206 17	6206 28	6206 48	6206 48	6207 48(2)	6206 82	See below	6206 99
	195 x 65	2		p. 151	2 x 85	6204 47	6208 45	6207 18		6206 20	6206 25	6206 94	6206 94	6207 49(2)	6206 82	See below	6206 99
	240 x 50	3		p. 152	1 x 40 + 2 x 85	6204 48(1)	6208 56	6207 21		6206 17	6206 28	6206 70	6206 77	–	6206 82	See below	–
	240 x 65	3		p. 153	1 x 40 + 2 x 85	6204 49(1)	6208 57	6207 19		6206 20	6206 25	6206 75	6206 76	–	6206 82	See below	–

(1) Composite range (see product information p. 152-153).
(2) See product information pages for use of bridge Cat. No. 6207 60

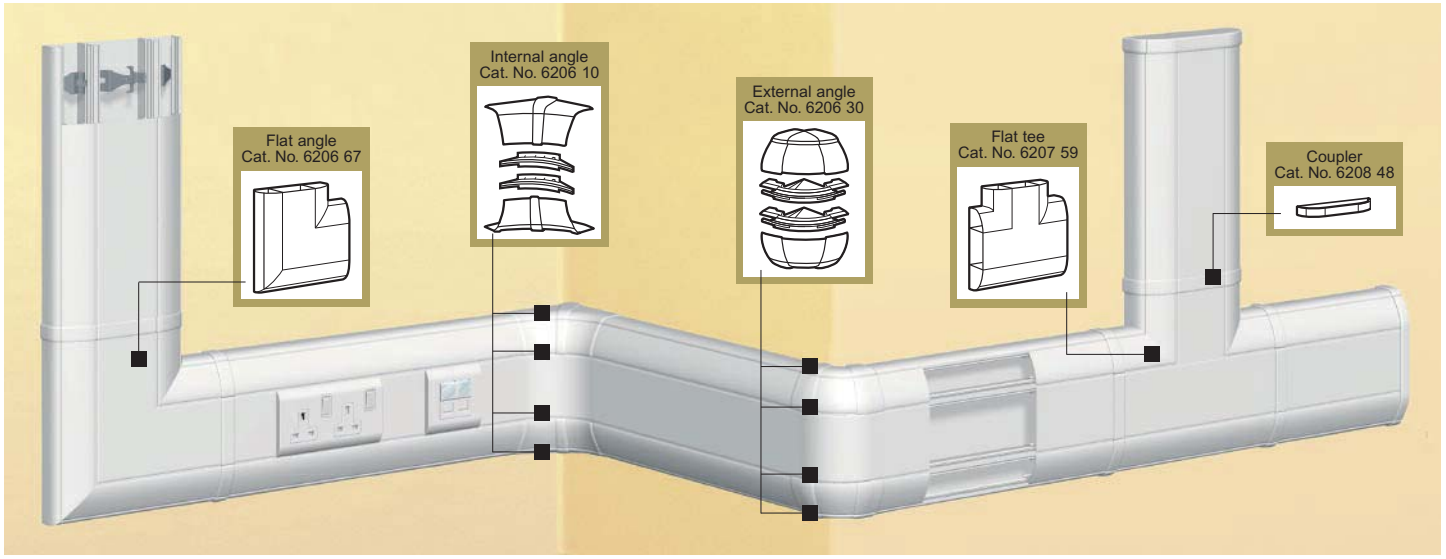
BACK BOXES		
Depth	Gang	Cat. Nos.
25 mm deep	1 gang	6208 16
	2 gang	6208 17
	3 gang	6208 18
35 mm deep	1 gang	6208 26
	2 gang	6208 27
	3 gang	6208 28

FLAT TEES			Vertical branch			
			150 x 50	150 x 50	195 x 50	195 x 50
Horizontal trunking	150 x 50		6207 54(2)	6207 56(2)	-	-
	195 x 50		-	-	6207 55(2)	6207 57(2)
	150 x 50		6207 45(2)	6207 46(2)	-	-

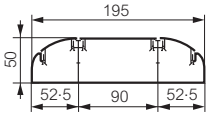
VDI ACCESSORIES (FOR DATA CABLING)	
Accessory	Cat. Nos.
For internal angle	0107 80
For external angle	0107 81
For flat bend	0107 82
For flat tee	0107 83

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - dado 195 x 50
3 compartment

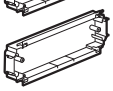


Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

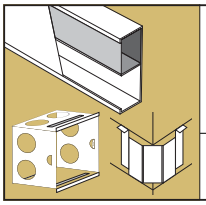
Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 2 x 42 curved + 1 x 85 mm
2 x 3 m	6204 55	**Trunking assembly 195 x 50 mm** Body, lids and dividers included, 3 m lengths 

Pack	Cat. Nos.	Fittings
		End cap
5	6207 13	 Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 10	 Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 30	 Variable 90° ± 5° Consists of top and bottom parts and dividers
		Flat angle
1	6206 67	
		Flat tee
1	6207 59	
		Bridge for flat tee
5	6207 60	 Allows complete separation of cables within the tee if cables need to crossover
		Coupler
5	6208 48	 Consists of body coupler and lid joint strip

Pack	Cat. Nos.	Fittings (continued)
		Cable retainer
50	6206 82	 To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 99	 Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Pack	Cat. Nos.	Back boxes
5	6208 16	 1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	 2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	 3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

Pack	Cat. Nos.	Accessories
8 x 3 m	6205 22	 Spare flat lid – 85 mm
2 x 3 m	6205 09	 Spare curved lid – 42 mm
5	6208 29	 Back box cable grip

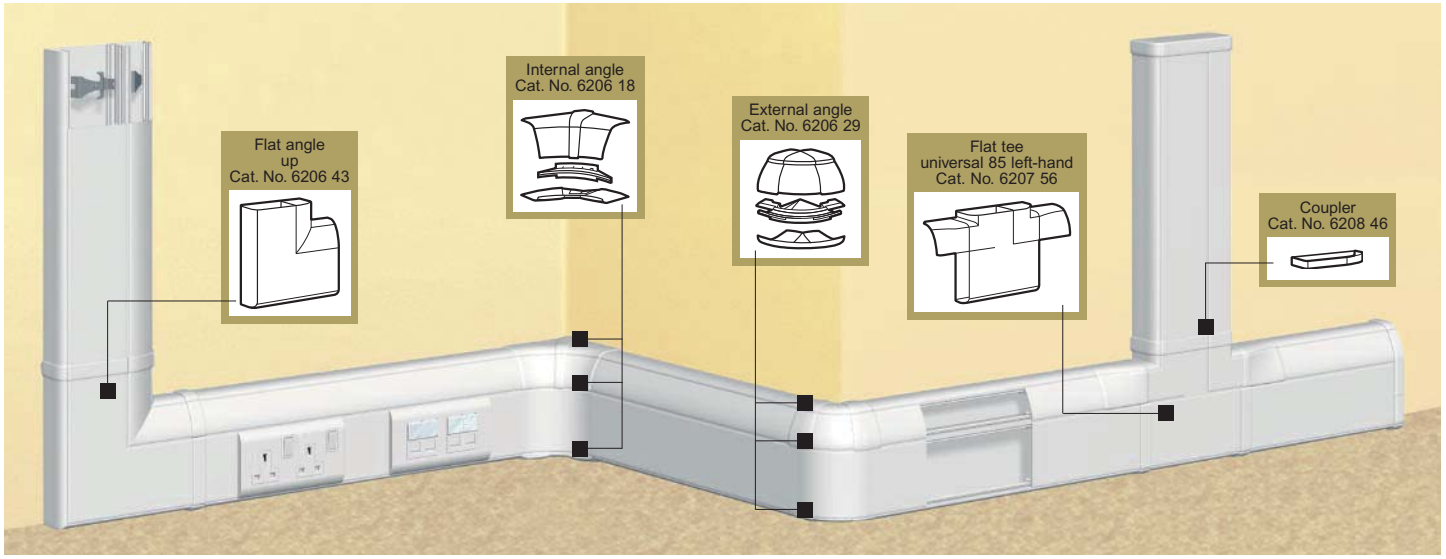


Steel back boxes, screening dividers and other accessories are available to suit data cabling requirements, see p. 155

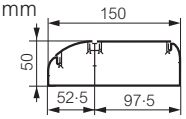
Contact us on 0845 605 4333

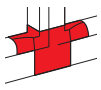
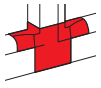
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - skirting 150 x 50
2 compartment

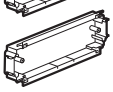


Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 42 curved + 1 x 85 mm
2 x 3 m	6204 58	**Trunking assembly 150 x 50 mm** Body, lids and divider included, 3 m lengths 

Pack	Cat. Nos.	Fittings
		End cap
5	6207 14	 Pack of 2 containing a left and a right hand cap
		Internal angle
5	6206 18	 Variable 90° ± 5° Consists of top and bottom parts and divider
		External angle
5	6206 29	 Variable 90° ± 5° Consists of top and bottom parts and divider
		Flat angles
1	6206 43	 Flat angle up
1	6206 44	 Flat angle down
		Flat Tees
1	6207 54	 Flat tee universal right hand Up with a 150 x 50 mm universal branch, with 85 mm compartment on right hand side
1	6207 56	 Flat tee universal left hand Up with a 150 x 50 mm universal branch, with 85 mm compartment on left hand side
		Bridge for flat tee
5	6207 60	 Allows complete separation of cables within the tee if cables need to crossover

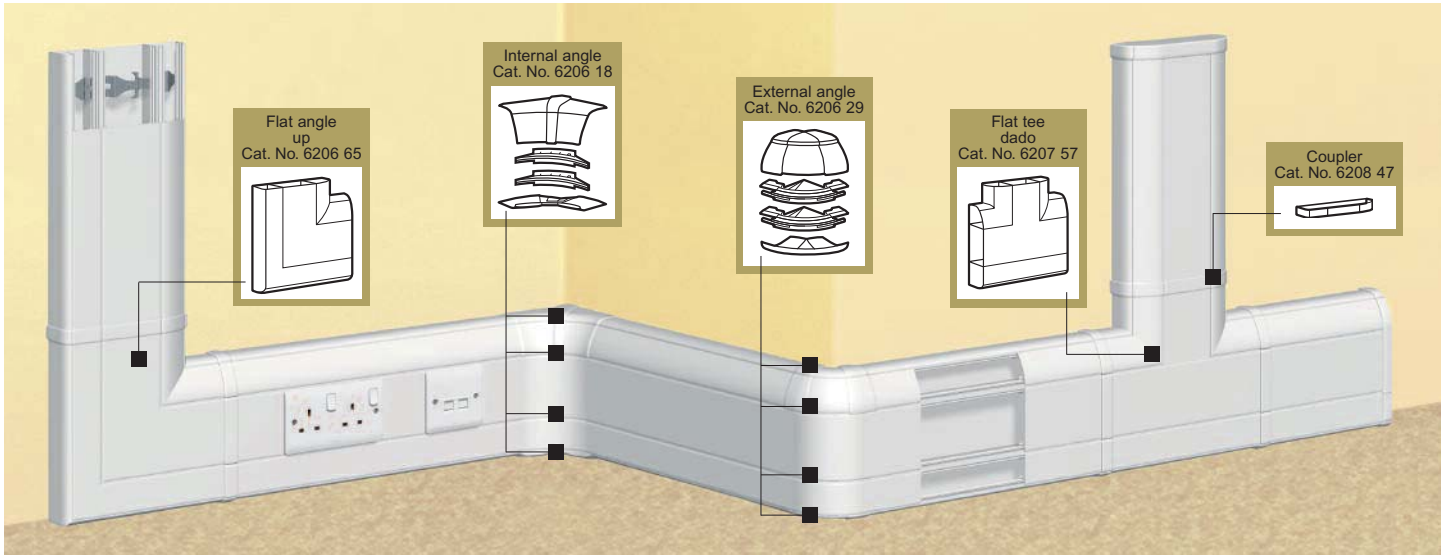
Pack	Cat. Nos.	Fittings (continued)
		Coupler
5	6208 46	 Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	 To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 98	 Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Pack	Cat. Nos.	Back boxes
5	6208 16	 1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	 2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	 3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

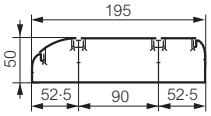
Pack	Cat. Nos.	Accessories
8 x 3 m	6205 22	 Spare flat lid – 85 mm
2 x 3 m	6205 09	 Spare curved lid – 42 mm
5	6208 29	 Back box cable grip

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - skirting 195 x 50
3 compartment

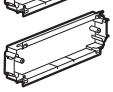


Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

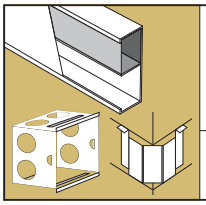
Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 42 curved + 1 x 85 + 1 x 40 mm
2 x 3 m	6204 54	**Trunking assembly 195 x 50 mm** Body, lids and dividers included, 3 m lengths 

Pack	Cat. Nos.	Fittings
		End cap
5	6207 10	 Pack of 2 containing a left and a right hand cap
		Internal angle
5	6206 18	 Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 29	 Variable 90° ± 5° Consists of top and bottom parts and dividers
		Flat angles
1	6206 65	 Flat angle up
1	6206 66	 Flat angle down
		Flat tees
1	6207 55	 Flat tee universal Up with a 3 compartment 195 x 50 universal branch
1	6207 57	 Flat tee dado Up with a 3 compartment 195 x 50 dado branch
		Bridge for flat tee
5	6207 60	 Allows complete separation of cables within the tee if cables need to crossover

Pack	Cat. Nos.	Fittings (continued)
		Coupler
5	6208 47	 Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	 To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 99	 Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Pack	Cat. Nos.	Back boxes
5	6208 16	 1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	 2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	 3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

Pack	Cat. Nos.	Accessories
12 x 3 m	6205 20	 Spare flat lid – 40 mm
8 x 3 m	6205 22	Spare flat lid – 85 mm
2 x 3 m	6205 09	 Spare curved lid – 42 mm
5	6208 29	 Back box cable grip

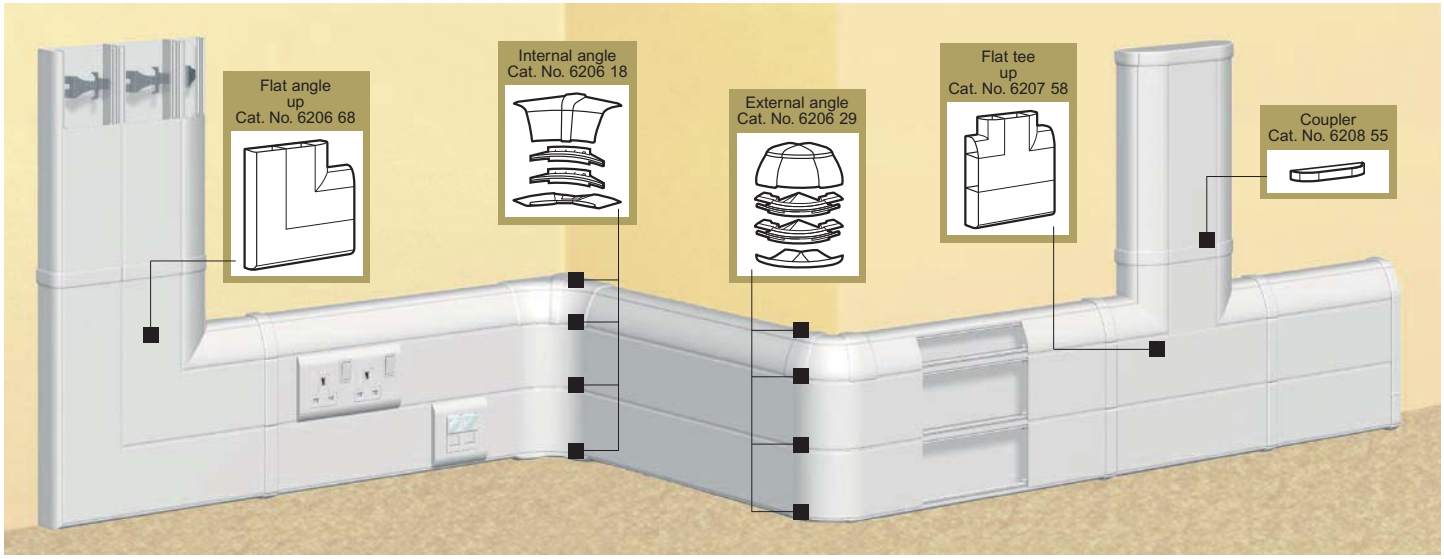


Steel back boxes, screening dividers and other accessories are available to suit data cabling requirements, see p. 155

Contact us on 0845 605 4333

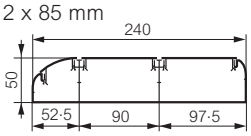
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - skirting 240 x 50
3 compartment



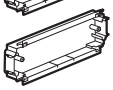
Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 42 curved + 2 x 85 mm
1 x 3 m	6204 57	**Trunking assembly 240 x 50 mm** Body, lids and dividers included, 3 m lengths



Pack	Cat. Nos.	Fittings
		End cap
5	6207 11	 Pack of 2 containing a left and a right hand cap
		Internal angle
5	6206 18	 Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 29	 Variable from 90° ± 5° Consists of top and bottom parts and dividers
		Flat angles
1	6206 68	 Flat angle up
1	6206 69	 Flat angle down
		Flat tee
1	6207 58	 Up with a 195 x 50 dado branch
		Bridge for flat tee
5	6207 60	 Allows complete separation of cables within the tee if cables need to crossover

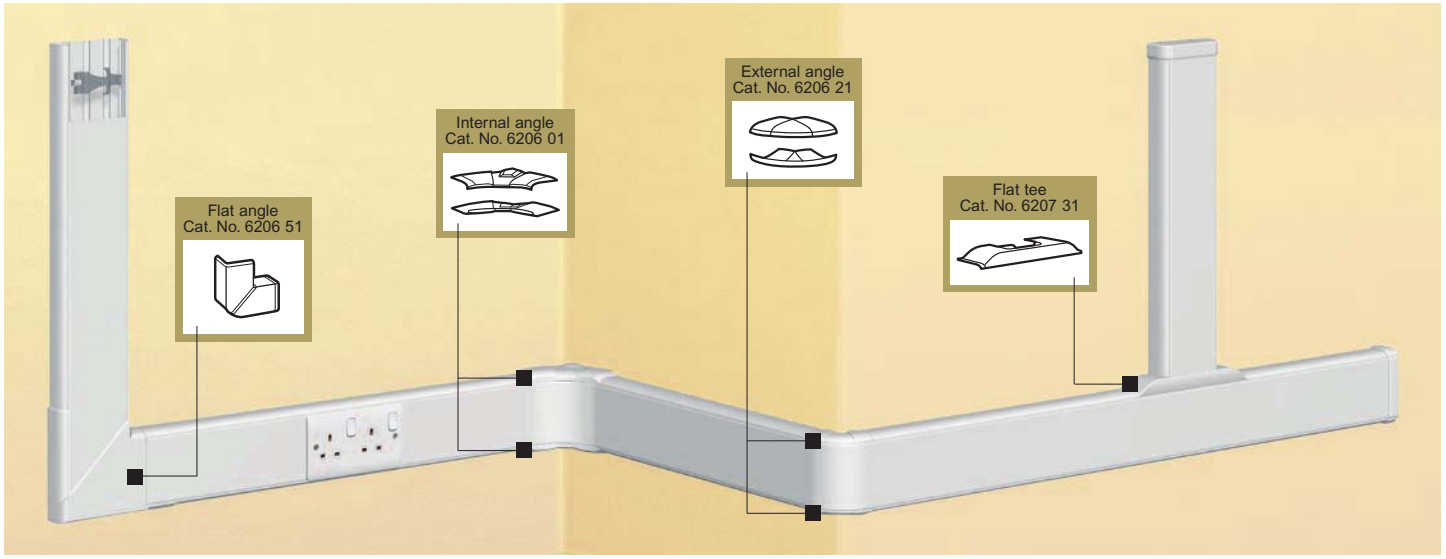
Pack	Cat. Nos.	Fittings (continued)
		Coupler
5	6208 55	 Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	 To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment

		Back boxes
5 5	6208 16 6208 26	 1 gang – 25 mm deep 1 gang – 35 mm deep
5 5	6208 17 6208 27	 2 gang – 25 mm deep 2 gang – 35 mm deep
2 2	6208 18 6208 28	 3 gang – 25 mm deep 3 gang – 35 mm deep

		Accessories
8 x 3 m	6205 22	 Spare flat lid – 85 mm
2 x 3 m	6205 09	 Spare curved lid – 42 mm
5	6208 29	 Back box cable grip

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

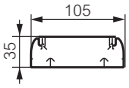
DLP trunking - universal 105 x 35
1 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Trunking

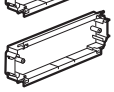
Pack	Cat. Nos.	
2 x 3 m	6204 27	Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 85 mm **Trunking assembly 105 x 35 mm** Body and lid included, 3 m lengths



Fittings

Pack	Cat. Nos.		
		End cap	
5	6207 01		Supplied singly – for use as a right or left end cap
		Internal angle	
5	6206 01		Variable 90° ± 5° Consists of top and bottom parts
		External angle	
5	6206 21		Variable 90° ± 5° Consists of top and bottom parts
		Flat angle	
2	6206 51		Variable 90° ± 2·5°
		Flat tee	
2	6207 31		
		Coupler	
5	6208 37		Consists of body coupler and lid joint strip
		Cable retainer	
50	6206 82		To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate	
5	6206 98		Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Back boxes

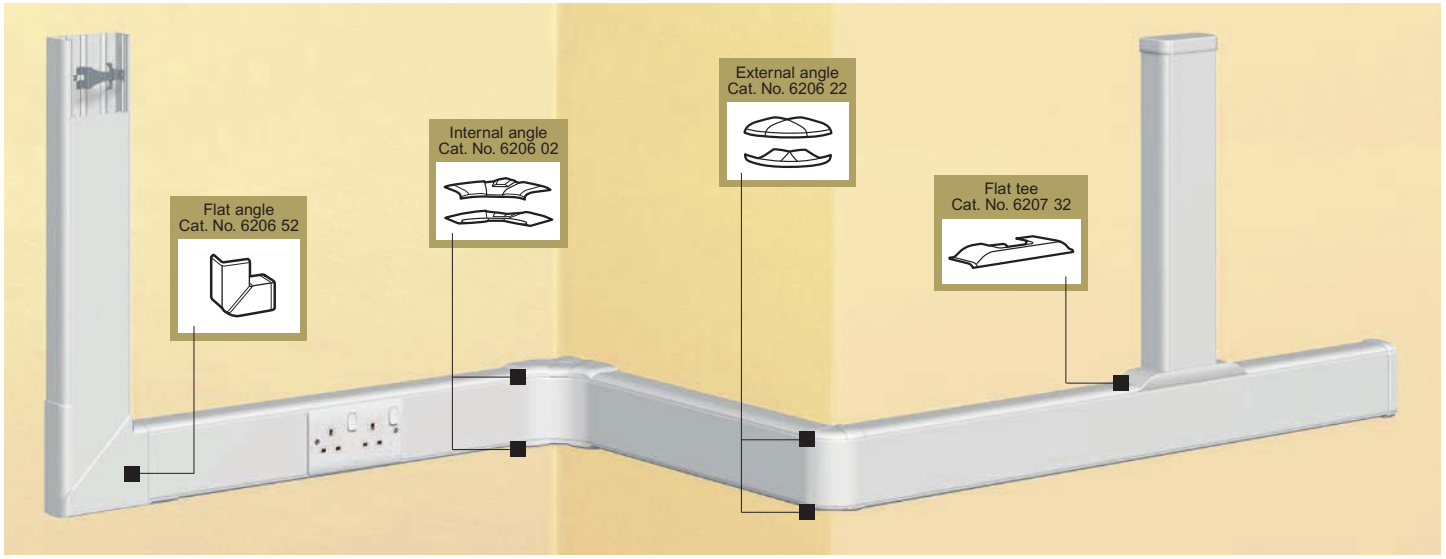
Pack	Cat. Nos.		
5	6208 16		1 gang – 25 mm deep
5	6208 17		2 gang – 25 mm deep
2	6208 18		3 gang – 25 mm deep

Accessories

Pack	Cat. Nos.		
8 x 3 m	6205 22		Spare flat lid – 85 mm
5	6208 29		Back box cable grip

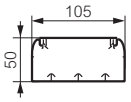
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - universal 105 x 50
1 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 85 mm
2 x 3 m	6204 28	**Trunking assembly 105 x 50 mm** Body and lid included, 3 m lengths



Pack	Cat. Nos.	Fittings
		End cap
5	6207 02	Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 02	Variable 90° ± 5° Consists of top and bottom parts
		External angle
5	6206 22	Variable 90° ± 5° Consists of top and bottom parts
		Flat angle
2	6206 52	Variable 90° ± 2·5°
		Flat tee
2	6207 32	
		Coupler
5	6208 38	Consists of body coupler and lid joint strips
		Cable retainer
50	6206 82	To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 98	Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

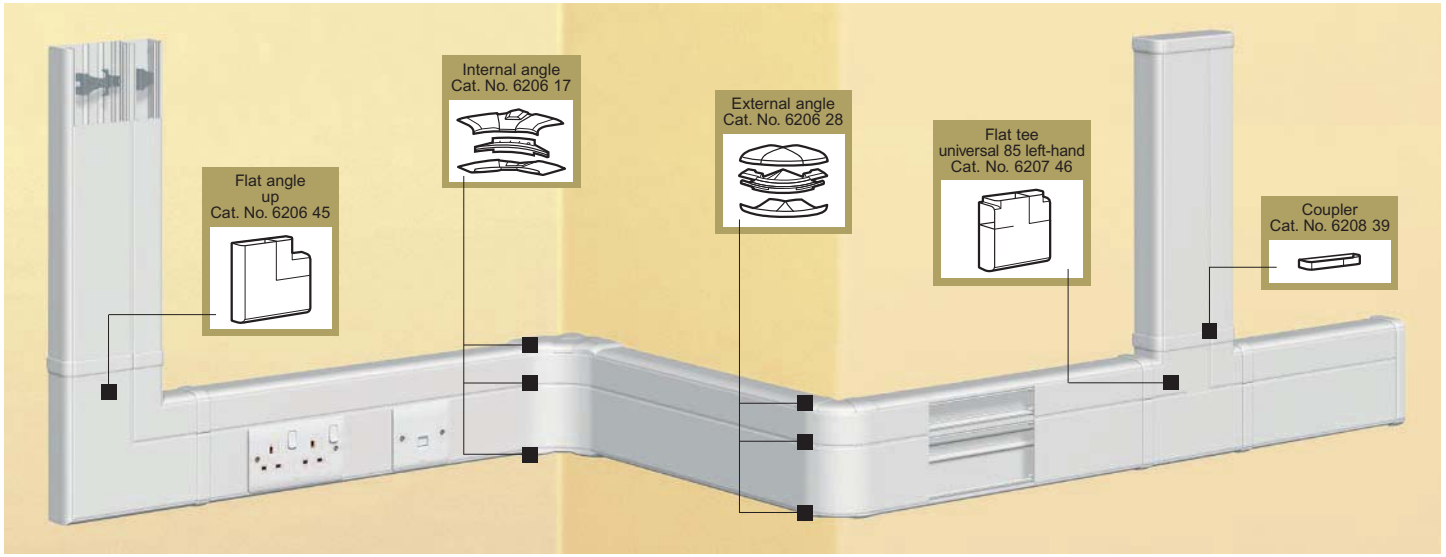
Pack	Cat. Nos.	Back boxes
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

		Accessories
8 x 3 m	6205 22	Spare flat lid – 85 mm
12 x 2 m	0105 82	Spare clip-in divider Enables internal segregation of cables within the compartment
5	6208 29	Back box cable grip

		Accessories for data cabling (VDI)
		To be used on internal, external, flat angles and flat tees Respect bend radius for cables according to the EIA/TIA standards
5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle
5	0107 83	Accessory for flat tee

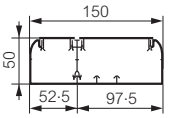
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - universal 150 x 50
2 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 40 + 1 x 85 mm
2 x 3 m	6204 44	**Trunking assembly 150 x 50 mm** Body, lids and divider included, 3 m lengths



Pack	Cat. Nos.	Fittings
		End cap
5	6207 16	Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 17	Variable 90° ± 5° Consists of top and bottom parts and divider
		External angle
5	6206 28	Variable 90° ± 5° Consists of top and bottom parts and divider
		Flat angles
1	6206 45	Flat angle up
1	6206 46	Flat angle down
		Flat Tees
1	6207 45	Flat tee universal 85 right hand Up with a 150 x 50 mm universal branch, with 85 mm compartment on right hand side
1	6207 46	Flat tee universal 85 left hand Up with a 150 x 50 mm universal branch, with 85 mm compartment on left hand side
		Bridge for flat tee
5	6207 60	Allows complete separation of cables within the tee if cables need to crossover
		Coupler
5	6208 39	Consists of body coupler and lid joint strip

Pack	Cat. Nos.	Fittings (continued)
		Cable retainer
50	6206 82	To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 98	Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

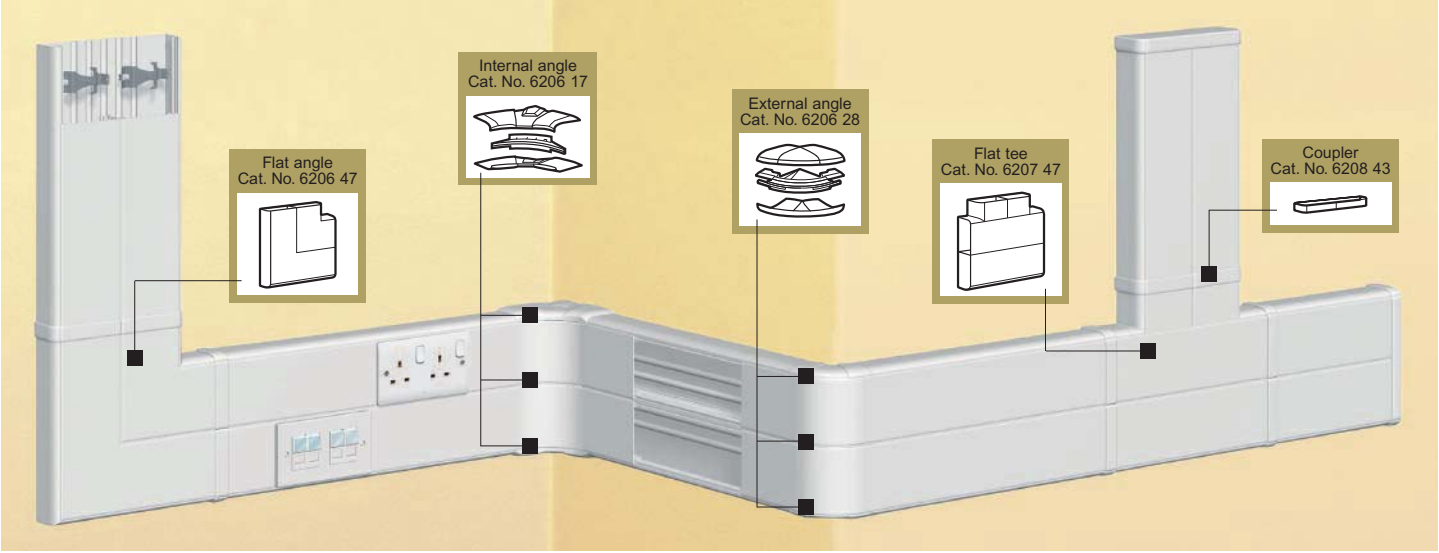
Pack	Cat. Nos.	Back boxes
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

Pack	Cat. Nos.	Accessories
12 x 3 m	6205 20	Spare flat lid – 40 mm
8 x 3 m	6205 22	Spare flat lid – 85 mm
12 x 2 m	0105 82	Spare clip-in divider Enables internal segregation of cables within the large compartment
5	6208 29	Back box cable grip

		Accessories for data cabling (VDI)
		To be used on internal, external, flat angles and flat tees Respect bend radius for cables according to the EIA/TIA standards
5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle
5	0107 83	Accessory for flat tee

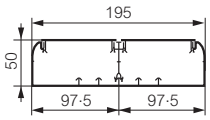
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - universal 195 x 50
2 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 2 x 85 mm
2 x 3 m	6204 45	**Trunking assembly 195 x 50 mm** Body, lids and divider included, 3 m lengths

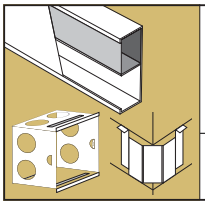


Pack	Cat. Nos.	Fittings
5	6207 17	**End cap** Supplied singly – for use as a right or left end cap
5	6206 17	**Internal angle** Variable 90° ± 5° Consists of top and bottom parts and divider
5	6206 28	**External angle** Variable 90° ± 5° Consists of top and bottom parts and divider
1	6206 47	**Flat angle**
1	6207 47	**Flat tee**
5	6207 60	**Bridge for flat tee** Allows complete separation of cables within the tee if cables need to crossover
5	6208 43	**Coupler** Consists of body coupler and lid joint strip
50	6206 82	**Cable retainer** To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
5	6206 99	**Wall plate** Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Pack	Cat. Nos.	Back boxes
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

		Accessories
8 x 3 m	6205 22	Spare flat lid – 85 mm
12 x 2 m	0105 82	Spare clip-in divider Enables internal segregation of cables within the two compartments
5	6208 29	Back box cable grip

		Accessories for data cabling (VDI)
		To be used on internal, external, flat angles and flat tees Respect bend radius for cables according to the EIA/TIA standards
5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle
5	0107 83	Accessory for flat tee

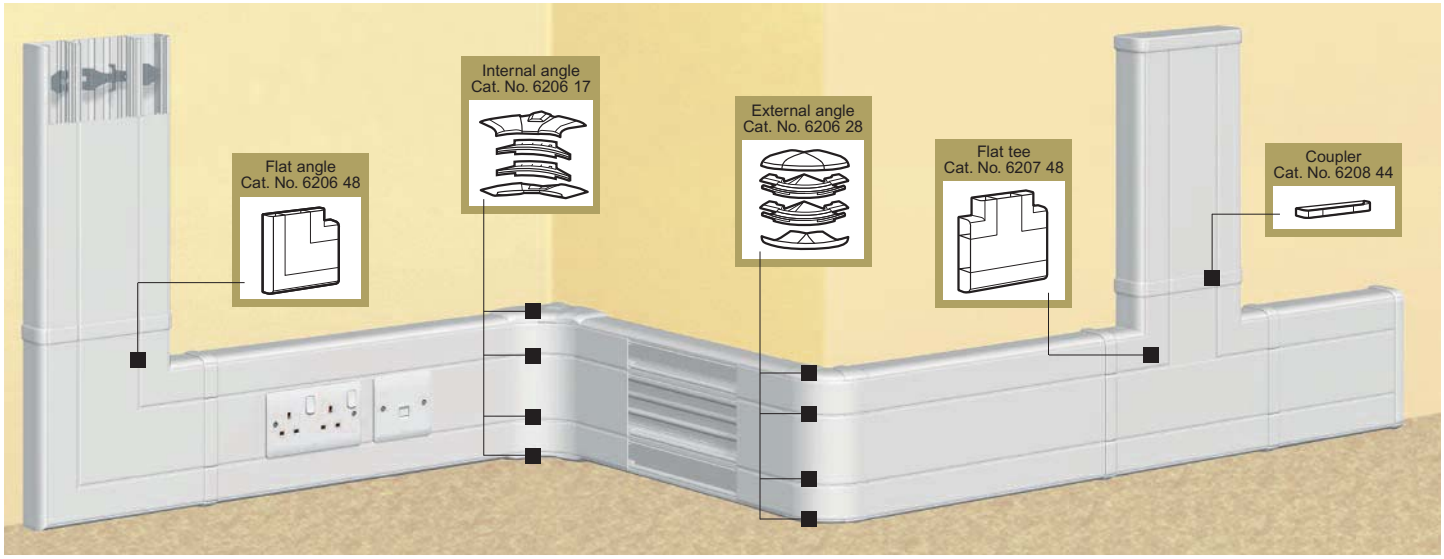


Steel back boxes, screening dividers and other accessories are available to suit data cabling requirements, see p. 155

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

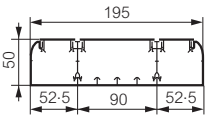
DLP trunking - universal 195 x 50
3 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Trunking

Pack	Cat. Nos.	
2 x 3 m	6204 46	Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 2 x 40 + 1 x 85 mm **Trunking assembly 195 x 50 mm** Body, lids and dividers included, 3 m lengths



Fittings

Pack	Cat. Nos.	
		End cap
5	6207 17	Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 17	Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 28	Variable 90° ± 5° Consists of top and bottom parts and dividers
		Flat angle
1	6206 48	
		Flat tee
1	6207 48	
		Bridge for flat tee
5	6207 60	Allows complete separation of cables within the tee if cables need to crossover
		Coupler
5	6208 44	Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate
5	6206 99	Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Back boxes

Pack	Cat. Nos.	
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

Accessories

12 x 3 m	6205 20	Spare flat lid – 40 mm
8 x 3 m	6205 22	Spare flat lid – 85 mm
12 x 2 m	0105 82	Spare clip-in divider Enables internal segregation of cables within the large compartment
5	6208 29	Back box cable grip

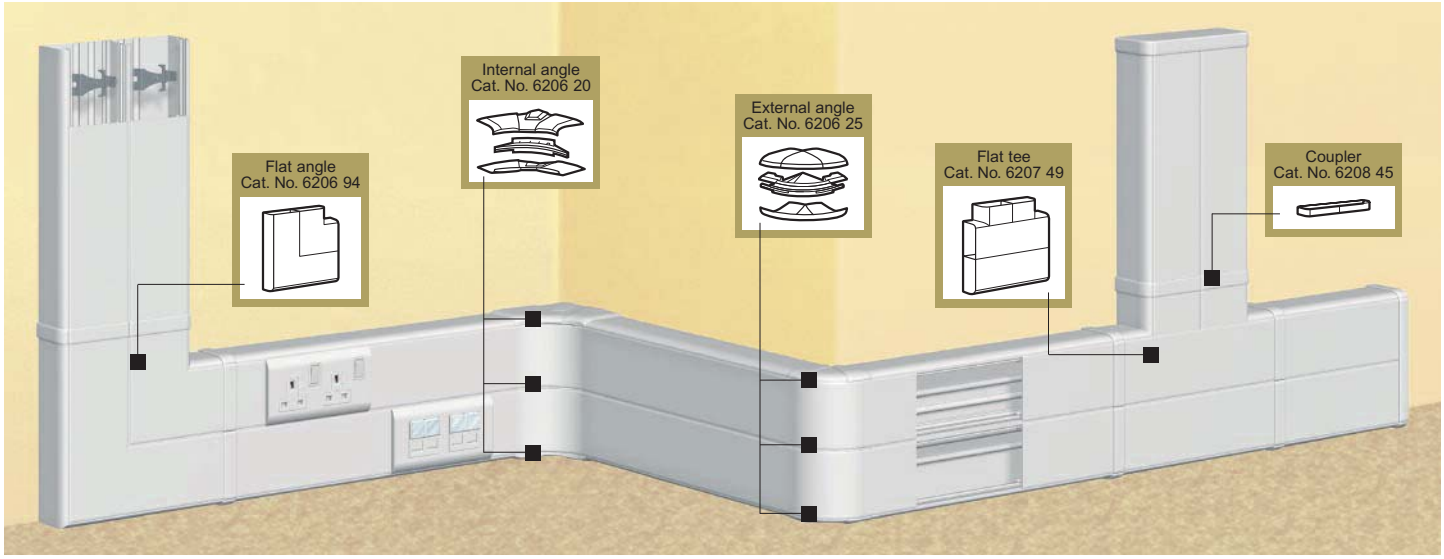
Accessories for data cabling (VDI)

To be used on internal, external, flat angles and flat tees
Respect bend radius for cables according to the EIA/TIA standards

5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle
5	0107 83	Accessory for flat tee

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

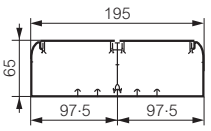
DLP trunking - universal 195 x 65
2 compartment



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Trunking

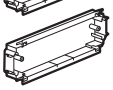
Pack	Cat. Nos.	
2 x 3 m	6204 47	Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 2 x 85 mm **Trunking assembly 195 x 65 mm** Body, lids and divider included, 3 m lengths



Fittings

Pack	Cat. Nos.		
		End cap	
5	6207 18		Supplied singly – for use as a right or left end cap
		Internal angle	
5	6206 20		Variable 90° ± 5° Consists of top and bottom parts and divider
		External angle	
5	6206 25		Variable 90° ± 5° Consists of top and bottom parts and divider
		Flat angle	
1	6206 94		
		Flat tee	
1	6207 49		
		Bridge for flat tee	
5	6207 60		Allows complete separation of cables within the tee if cables need to crossover
		Coupler	
5	6208 45		Consists of body coupler and lid joint strip
		Cable retainer	
50	6206 82		To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment
		Wall plate	
5	6206 99		Provides a neat cover detail to the aperture edges, where trunking is passed through a wall

Back boxes

Pack	Cat. Nos.		
5	6208 16		1 gang – 25 mm deep
5	6208 26		1 gang – 35 mm deep
5	6208 17		2 gang – 25 mm deep
5	6208 27		2 gang – 35 mm deep
2	6208 18		3 gang – 25 mm deep
2	6208 28		3 gang – 35 mm deep

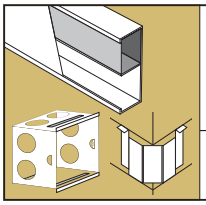
Accessories

Pack	Cat. Nos.		
8 x 3 m	6205 22		Spare flat lid – 85 mm
24 x 2 m	0105 83		Spare clip-in divider Enables internal segregation of cables within the two compartments
5	6208 29		Back box cable grip

Accessories for data cabling (VDI)

To be used on internal, external, flat angles and flat tees
Respect bend radius for cables according to the EIA/TIA standards

Pack	Cat. Nos.		
5	0107 80		Accessory for internal angle
5	0107 81		Accessory for external angle
5	0107 82		Accessory for flat angle
5	0107 83		Accessory for flat tee

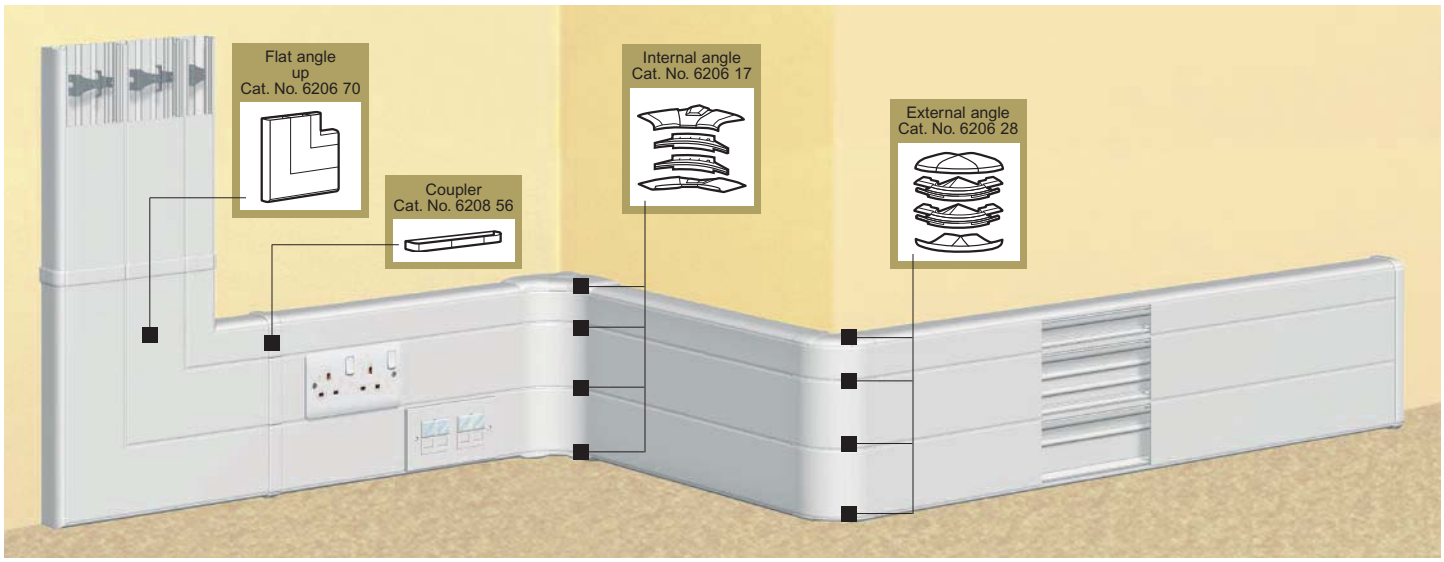


Steel back boxes, screening dividers and other accessories are available to suit data cabling requirements, see p. 155

Contact us on 0845 605 4333

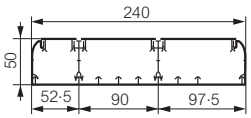
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DLP trunking - universal 240 x 50
3 compartment - composite



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 40 + 2 x 85 mm Composite range comprises pre-assembled clip-in dividers, top and bottom sections, lids and base
1 x 3 m	6204 48	**Trunking assembly 240 x 50 mm** Body, lids and dividers included, 3 m lengths



Pack	Cat. Nos.	Fittings
		End cap
5	6207 21	Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 17	Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 28	Variable 90° ± 5° Consists of top and bottom parts and dividers
		Flat angles
1	6206 70	Flat angle up
1	6206 77	Flat angle down
		Coupler
5	6208 56	Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment

Pack	Cat. Nos.	Back boxes
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

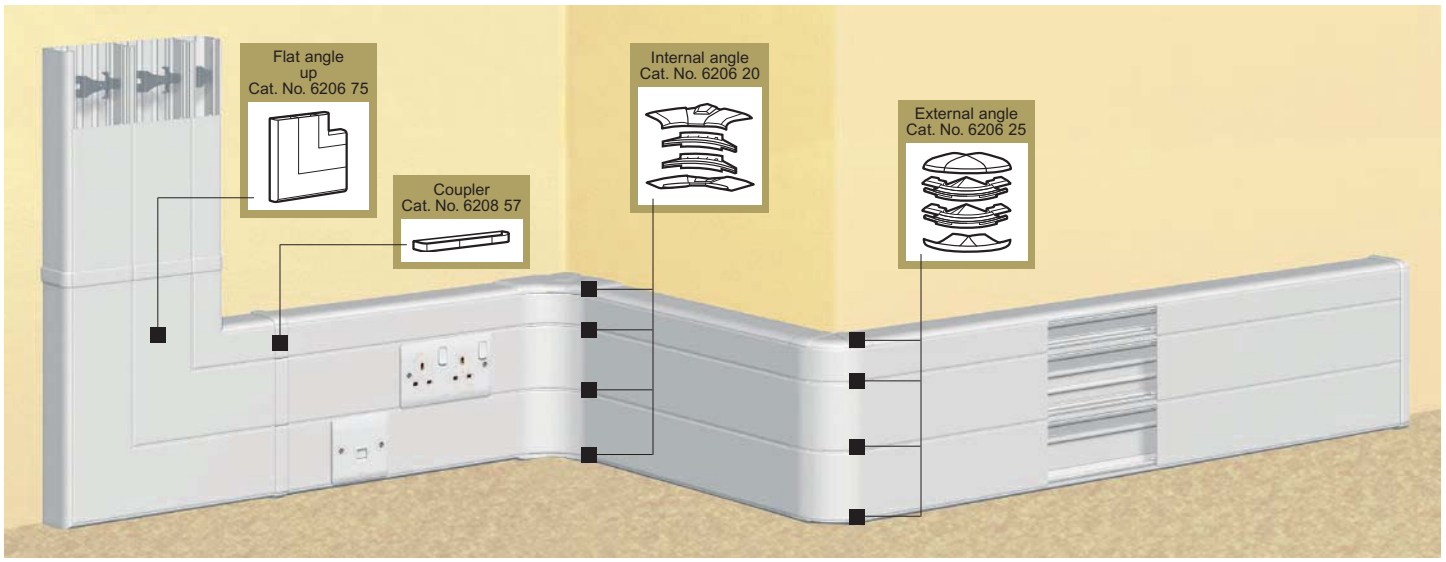
		Accessories
12 x 3 m	6205 20	Spare flat lid – 40 mm
8 x 3 m	6205 22	Spare flat lid – 85 mm
12 x 2 m	0105 82	Spare clip-in divider Enables internal segregation of cables within the two large compartments
5	6208 29	Back box cable grip

		Accessories for data cabling (VDI)
		To be used on internal, external, flat angles and flat tees Respect bend radius for cables according to the EIA/TIA standards
5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle
5	0107 83	Accessory for flat tee

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

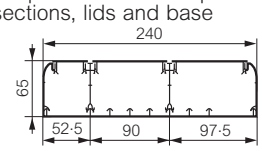
DLP trunking - universal 240 x 65

3 compartment - composite



Dimensions and technical information (p. 154-155)
Selection chart (p. 140-141)

Pack	Cat. Nos.	Trunking
		Material : high impact self-extinguishing PVC-U Colour : white RAL 9002 Length : 3 metres Lid width : 1 x 40 + 2 x 85 mm Composite range comprises pre-assembled clip-in dividers, top and bottom sections, lids and base
1 x 3 m	6204 49	**Trunking assembly 240 x 65 mm** Body, lids and dividers included, 3 m lengths

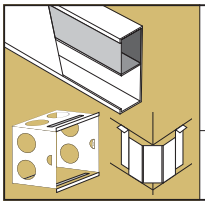


Pack	Cat. Nos.	Fittings
		End cap
5	6207 19	Supplied singly – for use as a right or left end cap
		Internal angle
5	6206 20	Variable 90° ± 5° Consists of top and bottom parts and dividers
		External angle
5	6206 25	Variable 90° ± 5° Consists of top and bottom parts and dividers
		Flat angles
1	6206 75	Flat angle up
1	6206 76	Flat angle down
		Coupler
5	6208 57	Consists of body coupler and lid joint strip
		Cable retainer
50	6206 82	To be used on 40, 42 and 85 mm wide compartments 1 cable retainer for each compartment

Pack	Cat. Nos.	Back boxes
5	6208 16	1 gang – 25 mm deep
5	6208 26	1 gang – 35 mm deep
5	6208 17	2 gang – 25 mm deep
5	6208 27	2 gang – 35 mm deep
2	6208 18	3 gang – 25 mm deep
2	6208 28	3 gang – 35 mm deep

		Accessories
12 x 3 m	6205 20	Spare flat lid – 40 mm
8 x 3 m	6205 22	Spare flat lid – 85 mm
24 x 2 m	0105 83	Spare clip-in divider Enables internal segregation of cables within the two large compartments
5	6208 29	Back box cable grip

		Accessories for data cabling (VDI)
		To be used on internal, external, flat angles and flat tees Respect bend radius for cables according to the EIA/TIA standards
5	0107 80	Accessory for internal angle
5	0107 81	Accessory for external angle
5	0107 82	Accessory for flat angle



Steel back boxes, screening dividers and other accessories are available to suit data cabling requirements, see p. 155

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ PVC-U White RAL 9002 : technical data

Physical

Properties	Unit of measure	Typical value
Density	g/cm^3	$1{\cdot}5^{+/-0{\cdot}02}$
Water absorption	%	0·05

Mechanical

Properties	Unit of measure	Typical value
Tensile strength	N/mm^2	$36^{+/-4}$
Charpy notched impact strength	KJ/m^2	8

Electrical

Properties	Unit of measure	Typical value
Surface resistivity	Ohm cm	$>1 \times 10^{15}$
Dielectric strength	kV/mm	30

Thermal

Properties	Unit of measure	Typical value
Vicat softening point	°C	$81^{+/-2}$
Operating temperatures	°C	–5°C to +60°C
Coefficient of linear expansion	$°K^{-1}$	$<6 \times 10^{-5}$

Flammability

Properties	Unit of measure	Typical value
Oxygen index	%	$50^{+/-5}$
Premixed test flame – 1kW (application 60s/extinction 30s)		PASS
Glow wire test	°C	960

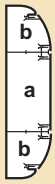
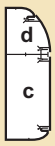
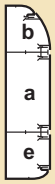
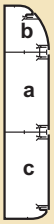
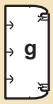
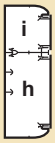
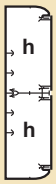
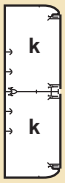
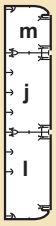
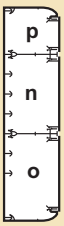
Chemical resistance

Mineral acids, alkalines and detergents : excellent
Alcohols : good, but liable to attack from solvents such as keytones, aromatics and hydrocarbons

■ Standards

Conforms to BS 4678 : Part 4 (where applicable)

■ Cable capacity

195 x 50	150 x 50	195 x 50	240 x 50	105 x 35	105 x 50	150 x 50	195 x 50	195 x 50	195 x 65	240 x 50	240 x 65
											
6204 55	6204 58	6204 54	6204 57	6204 27	6204 28	6204 44	6204 45	6204 46	6204 47	6204 48	6204 49
DADO	SKIRTING			UNIVERSAL							

Full capacity (mm^2)

	Empty compartment	With 25 mm back box	With 35 mm back box
a	3900	2130	1510
b	1690	–	–
c	4190	2420	1800
d	1690	–	–
e	2050	–	–
f	2850	1080	–
g	4300	2530	1910
h	3940	2170	1550
i	1920	–	–
j	3460	1690	1070
k	5310	3540	2920
l	3830	2060	1440
m	1810	–	–
n	4780	3010	2390
o	5200	3430	2810
p	2500	–	–

Cable factor

	Type of conductor	Size	Cable factor
Data cables	Cat. 5e UTP	Ø 5·5 mm*	30·2
	Cat. 5e STP	Ø 6·0 mm*	36·0
	Cat. 6 UTP	Ø 6·5 mm*	42·2
	Cat. 6 STP	Ø 7·0 mm*	49·0

*typical values, check with manufacturer

For each size of cable multiply the number to be installed by its own factor. Add together the results for all cable sizes. The resulting sum should be equal or less than the trunking capacity. It is recommended that each compartment should not be filled over 45% of its full capacity

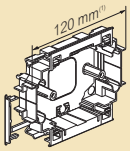
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Cable capacity (continued)

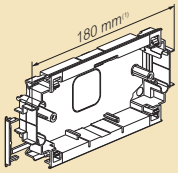
Cable capacities are shown in the tables below (number of cables at 45% full)

	Empty compartment				Compartment with 25 mm back box				Compartment with 35 mm back box			
	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP
a	58	48	41	35	31	26	22	19	22	18	16	13
b	25	21	18	15	–	–	–	–	–	–	–	–
c	62	52	44	38	36	30	25	22	26	22	19	16
d	25	21	18	15	–	–	–	–	–	–	–	–
e	30	25	21	18	–	–	–	–	–	–	–	–
f	42	35	30	26	16	13	11	9	–	–	–	–
g	64	53	45	39	37	31	26	23	28	23	20	17
h	58	49	42	36	32	27	23	19	23	19	16	14
i	28	24	20	17	–	–	–	–	–	–	–	–
j	51	43	36	31	25	21	18	15	15	13	11	9
k	79	66	56	48	52	44	37	32	43	36	31	26
l	57	47	40	35	30	25	21	18	21	18	15	13
m	26	22	19	16	–	–	–	–	–	–	–	–
n	71	59	50	43	44	37	32	27	35	29	25	21
o	77	65	55	47	51	42	36	31	41	35	29	25
p	37	31	26	22	–	–	–	–	–	–	–	–

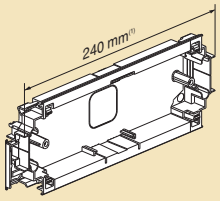
■ Back boxes



6208 16/6208 26
Fixing centres : 60·3 mm



6208 17/6208 27
Fixing centres : 120·6 mm



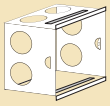
6208 18/6208 28
Fixing centres : 180·9 mm

(1) includes removable cable separators (2 x 7 mm)

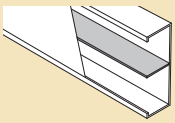
■ Data cabling compliancy

Providing that the installation is carried out correctly and data cables are installed to TIA/EIA-568-B standards, the range of DLP trunking is compliant with current data cabling requirements, including Cat 6 cabling. The 35 mm deep back boxes will accept most manufacturers' data sockets

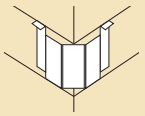
A range of steel accessories is available to cater for the special requirements of data cabling, please contact us on : 0845 605 4333



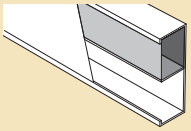
50 mm steel back box
Ensures that enough space is available for cabling all types of data sockets
Plain box : holes are knock-outs



Clip-in steel divider
Provides extra screening. Supplied complete with earth couplers and screws



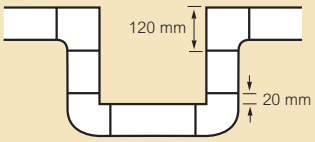
External angle data accessory
Ensures minimum bend radius whilst preserving maximum cable capacity inside the compartment



Screening inserts

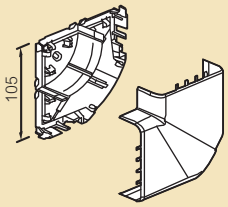
■ Around pillar installation

When fitting trunking around a pillar it is best to allow sufficient space between internal and external angles to ensure that the flexible lid stays firmly in place

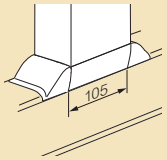


■ Flat tees and flat angles dimensions

Moulded flat tees and flat angles

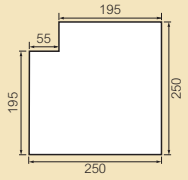


6206 51/6206 52

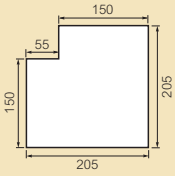


6207 31/6207 32

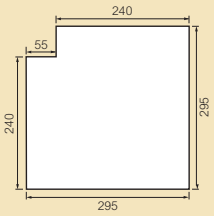
Fabricated flat angles



6206 47/48/
65/66/67/94

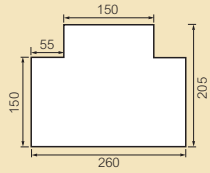


6206 43/
44/45/46

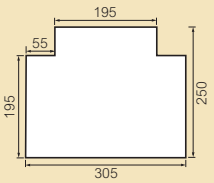


6206 68/69/
70/75/76/77

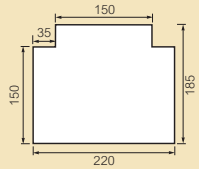
Fabricated flat tees



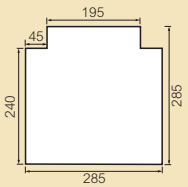
6207 45/46



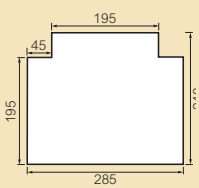
6207 47/48/
49/57/59



6207 54/56



6207 58

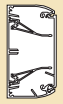
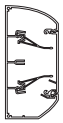
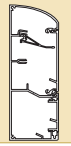


6207 55

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

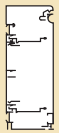
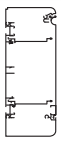
Rolfe King® system 205, 255, 280 and 206

Type	Page No.	Number of compartments	Section (mm)		TRUNKING LENGTHS(1) Body	Lid	Optional divider	FITTINGS(1) Internal cast radius corner	External cast radius corner	Internal corner	External corner	FITTINGS(1) Flat bend up	Flat bend down	Flat tee up	Flat tee down	End cap	BACK BOXES 1 gang	2 gang	ACCESSORIES Earth coupler	Earth lead	Cable retainer
SYSTEM 205	158	1, 2 and 3		105 x 50	6495 10	6496 71	6496 90	–	–	6495 11	6495 12	6495 13	6495 14	6495 15	6495 16	6495 17	6496 91	6496 92	6495 08	6496 94	6496 93
SYSTEM 255	159	1, 2 and 3		150 x 60	6495 50	6496 71	6496 90	6495 51	6495 52	6495 53	6495 54	6495 55	6495 56	6495 57	6495 58	6495 59 (LH) 6495 60 (RH)	6496 91	6496 92	6495 08	6496 94	6496 93
SYSTEM 280	160	2 and 3		180 x 60	6496 40	6496 71 + 6496 81	6496 90	–	–	6496 41	6496 42	6496 43	6496 44	6496 45	6496 46	6496 47 (LH) 6496 48 (RH)	6496 91	6496 92	6495 08	6496 94	6496 93
SYSTEM 206	161	1, 2 and 3		115 x 95	6496 10	6496 71	6496 90	–	–	6496 11	6496 12	–	–	–	–	6496 17 (LH) 6496 18 (RH)	6496 91	6496 92	6495 08	6496 94	6496 93

(1) All Cat. Nos. refer to goose wing grey trunking and fittings

(1) All Cat. Nos. refer to goose wing grey trunking and fittings

Rolfe King® system 155 and 180

Type	Page No.	Number of compartments	Section (mm)		TRUNKING LENGTHS(1) Body	Lid	Optional divider	FITTINGS(1) Internal corner	External corner	Internal cut-out	FITTINGS(1) Flat bend up	Flat bend down	Flat tee up	Flat tee down	End cap	BACK BOXES 1 gang	2 gang
SYSTEM 155	164	1 to 4		150 x 58	91501 09	91502 09	90102 XX	91513 09	91514 09	91517 09 (LH) 91818 09 (RH)	91531 09	91532 09	91533 09	91534 09	91525 09 (LH) 91826 09 (RH)	91510 XX	91511 XX
SYSTEM 180	165	1 to 4		175 x 69·5	91801 09	91502 09	90108 XX	91813 09	91814 09	–	91831 09	91832 09	91833 09	91834 09	91805 09 (LH) 91806 09 (RH)	91808 XX	91809 XX

(1) All Cat. Nos. refer to goose wing grey trunking and fittings

(1) All Cat. Nos. refer to goose wing grey trunking and fittings

ACCESSORIES		
Divider screw		90103 XX
Cable retainer		91507 XX
Coupler/ earth link		90110 XX
Single flex earth lead		90118 XX
Double flex earth lead		90119 XX
Lid retainer		90144 XX or 90145 XX



Service outlet plates

see p. 166

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 205
105 x 50 mm aluminium trunking



6495 20 + 6496 70

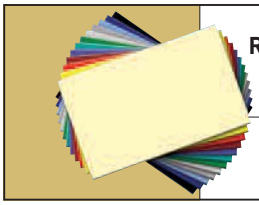
6495 10 + 6496 71

Accessories (p. 161)
Dimensions and technical information (p. 162-163)

Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	White	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6495 20	Trunking body – 2·4 m
	White	**Fittings**
		Supplied complete with lid, mitred dividers and coupler set
1	6495 21	**Internal corners**
1	6495 22	**External corners**
		Flat 90° bends
1	6495 23	Flat bend up
1	6495 24	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch. Through trunking horizontal lid not supplied
1	6495 25	Flat tee up
1	6495 26	Flat tee down
		End caps
		Supplied complete with fixing screws Can be rotated to suit left or right hand applications
1	6495 27	Universal end cap

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	Goose wing grey	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6495 10	Trunking body – 2·4 m
	Goose wing grey	**Fittings**
		Supplied complete with lid, mitred dividers and coupler set
1	6495 11	**Internal corners**
1	6495 12	**External corners**
		Flat 90° bends
1	6495 13	Flat bend up
1	6495 14	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch. Through trunking horizontal lid not supplied
1	6495 15	Flat tee up
1	6495 16	Flat tee down
		End caps
		Supplied complete with fixing screws Can be rotated to suit left or right hand applications
1	6495 17	Universal end cap



Rolfe King trunking is available in a wide range of RAL colours(1)

Contact us on 0845 605 4333

(1) A Syntha Pulvin finish can be applied on request

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 255
150 x 60 mm aluminium trunking



6495 70 + 6496 70

6495 50 + 6496 71

Accessories (p. 161)
Dimensions and technical information (p. 162-163)

Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	White	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6495 70	Trunking body – 2·4 m

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	Goose wing grey	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6495 50	Trunking body – 2·4 m

Pack	Cat. Nos.	Fittings
	White	Supplied complete with lid, mitred dividers and coupler set
1	6495 71	**Internal cast radius corners**
1	6495 72	**External cast radius corners**
1	6495 73	**Internal corners**
1	6495 74	**External corners**
		Flat 90° bends
lid,		Bends are supplied complete with mitred dividers and coupler set
1	6495 75	Flat bend up
1	6495 76	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch Through trunking horizontal lid not supplied
1	6495 77	Flat tee up
1	6495 78	Flat tee down
		End caps
		Supplied complete with fixing screws
1	6495 79	Left hand end cap
1	6495 80	Right hand end cap

Pack	Cat. Nos.	Fittings
	Goose wing grey	Supplied complete with lid, mitred dividers and coupler set
1	6495 51	**Internal cast radius corners**
1	6495 52	**External cast radius corners**
1	6495 53	**Internal corners**
1	6495 54	**External corners**
		Flat 90° bends
		Bends are supplied complete with lid, mitred dividers and coupler set
1	6495 55	Flat bend up
1	6495 56	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch Through trunking horizontal lid not supplied
1	6495 57	Flat tee up
1	6495 58	Flat tee down
		End caps
		Supplied complete with fixing screws
1	6495 59	Left hand end cap
1	6495 60	Right hand end cap

(1) A Syntha Pulvin finish can be applied on request

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 280
180 x 60 mm aluminium trunking



6496 50 + 6496 70 + 6496 80

6496 40 + 6496 71 + 6496 81

Accessories (p. 161)
Dimensions and technical information (p. 162-163)

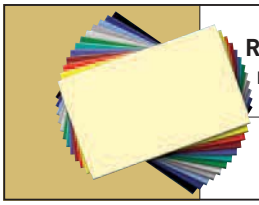
Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties
Lower compartment accepts Mosaic modular accessories, (see p. 86–92)
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	White	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6496 50	Trunking body – 2·4 m

	White	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	6496 51	**Internal corners**
1	6496 52	**External corners**
		Flat 90° bends
1	6496 53	Flat bend up
1	6496 54	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch. Through trunking horizontal lid not supplied
1	6496 55	Flat tee up
1	6496 56	Flat tee down
		End caps
		Supplied complete with fixing screws
1	6496 57	Left hand end cap
1	6496 58	Right hand end cap

Pack	Cat. Nos.	Trunking lengths – 2·4 m
	Goose wing grey	A coupler pack is provided with each length Lids, dividers and earth leads are supplied separately, see accessories page 161
1	6496 40	Trunking body – 2·4 m

	Goose wing grey	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	6496 41	**Internal corners**
1	6496 42	**External corners**
		Flat 90° bends
1	6496 43	Flat bend up
1	6496 44	Flat bend down
		Flat tees
		Supplied complete with crossover, two coupler sets and flat lid for branch. Through trunking horizontal lid not supplied
1	6496 45	Flat tee up
1	6496 46	Flat tee down
		End caps
		Supplied complete with fixing screws
1	6496 47	Left hand end cap
1	6496 48	Right hand end cap



Rolfe King trunking is available in a wide range of RAL colours(1)

Contact us on 0845 605 4333

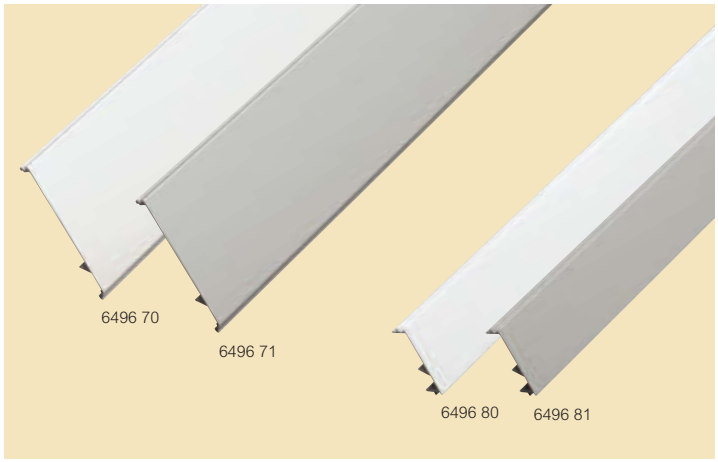
(1) A Syntha Pulvin finish can be applied on request

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 206
115 x 95 mm aluminium trunking



Rolfe King® trunking accessories
systems 205, 206, 255 and 280



Accessories (opposite)
Dimensions and technical information (p. 162-163)

Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties

Colour : white (RAL 9010) or goose wing grey (BS 00A05)

For other colours, please specify RAL number(1)

Trunking lengths – 2·4 m

Pack	Cat. Nos. White	Cat. Nos. Goose wing grey	
1	6496 20	6496 10	Trunking body – 2·4 m

A coupler pack is provided with each length
Lids, dividers and earth leads are supplied separately (see accessories opposite)

Fittings

Supplied complete with lid, mitred dividers and coupler set

Pack	White	Goose wing grey	
1	6496 21	6496 11	**Internal corners**
1	6496 22	6496 12	**External corners**





End caps

Supplied complete with fixing screws

Pack	White	Goose wing grey	
1	6496 27	6496 17	Left hand end cap
1	6496 28	6496 18	Right hand end cap





Dimensions and technical information (p. 162-163)

Universal 85 mm flat lid

Pack	Cat. Nos. White	Cat. Nos. Goose wing grey	
1	6496 70	6496 71	Universal 85 mm lid – 2·4 m



45 mm lid

For use with system 280 trunking only

Pack	White	Goose wing grey	
1	6496 80	6496 81	System 280 45 mm lid – 2·4 m



Universal clip-in divider

Pack	Cat. Nos.	
20	6496 90	Universal clip-in divider – 2·4 m



Cable retainer

Material : flame retardant PVC

Pack	Cat. Nos.	
10	6496 93	Cable retainer (red)



Copper earth coupler

Material : electro-plated copper
Provides earthing between trunking lengths and fittings
Supplied complete with four dowel pins and 2 fixing screws

Pack	Cat. Nos.	
10	6495 08	Coupler pack



Flexible earth lead

Provides earthing between trunking lengths and lids
Supplied complete with two earth clips

Pack	Cat. Nos.	
10	6496 94	Flexible earth lead



Clip-in back boxes

Material : flame retardant moulded polypropylene

Pack	Cat. Nos.	
1	6496 91	1 gang – 35 mm deep
1	6496 92	2 gang – 35 mm deep

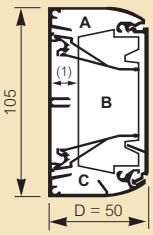


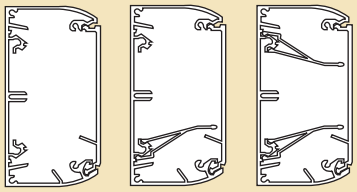
(1) A Syntha Pulvin finish can be applied on request

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions (mm) and capacities (mm²)

System 205

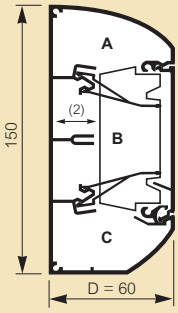


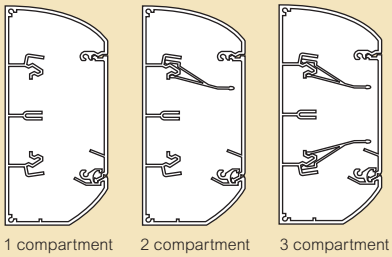


Compartment size (mm²)	With back box	Without back box
A	425	880
B	465	1 900
C	405	840

(1) Space available behind back box : 11·5 mm

System 255

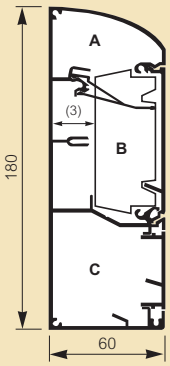


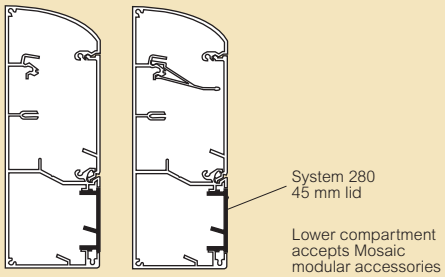


Compartment size (mm²)	With back box	Without back box
A	1 570	2 020
B	1 170	2 600
C	1 620	2 040

(2) Space available behind back box : 21·3 mm

System 280

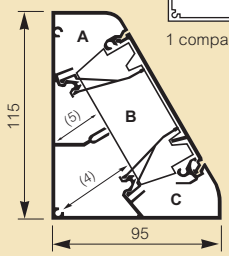


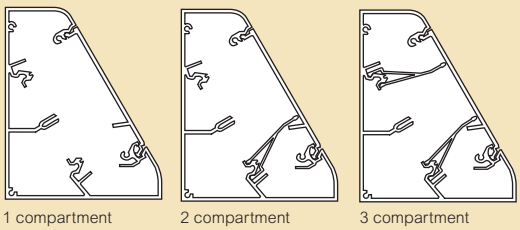


Compartment size (mm²)	With back box	Without back box
A	1 570	2 020
B	1 280	3 440
C	3 100	3 100

(3) Space available behind back box : 20·8 mm

System 206

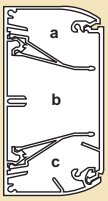
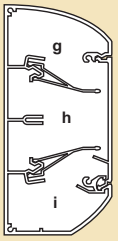
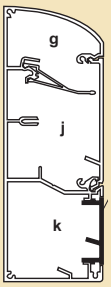
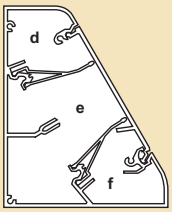




Compartment size (mm²)	With back box	Without back box
A	890	1 340
B	2 140	3 580
C	900	1 320

(4) Space available behind back box : 48·0 mm
(5) Space available behind back box : 29·9 mm

■ Cable capacity

105 x 50	150 x 60	180 x 60	115 x 95
			
6495 10	6495 50	6496 40	6496 10
SYSTEM 205	SYSTEM 255	SYSTEM 280	SYSTEM 206

Cable capacity (number of cables at 45% full)

	Compartment with back box			
	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP
a	6	5	5	4
b	7	6	5	4
c	6	5	4	4
d	13	11	9	8
e	32	27	23	20
f	13	11	10	8
g	23	20	17	14
h	17	15	12	11
i	24	20	17	15
j	19	16	14	12
k	46	39	33	28

	Compartment without back box			
	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP
a	13	11	9	8
b	28	24	20	17
c	12	11	9	8
d	20	17	14	12
e	53	45	38	33
f	20	17	14	12
g	30	25	22	19
h	39	33	28	24
i	30	25	22	19
j	51	43	37	32
k	46	39	33	28

Cable factor

	Type of conductor	Size	Cable factor
Data cables	Cat. 5e UTP	Ø 5·5 mm(1)	30·2
	Cat. 5e STP	Ø 6·0 mm(1)	36·0
	Cat. 6 UTP	Ø 6·5 mm(1)	42·2
	Cat. 6 STP	Ø 7·0 mm(1)	49·0

(1) typical values, check with manufacturer

For each size of cable multiply the number to be installed by its own factor. Add together the results for all cable sizes. The resulting sum should be equal to or less than the trunking capacity. It is recommended that each compartment should not be filled over 45% of its full capacity

■ Data cabling compliancy

Providing that the installation is carried out correctly and data cables are installed to TIA / EIA-568-B standards, the range of Rolfe King trunking is compliant with current data cabling requirements, including Cat 6 cabling

The 35 mm deep back boxes will accept most manufacturers' data sockets

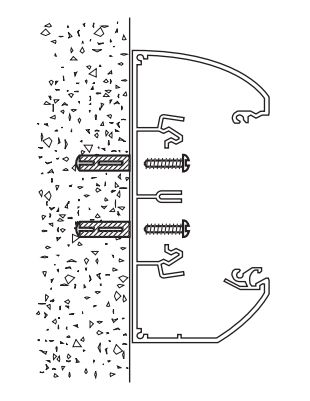
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Extrusion cutting

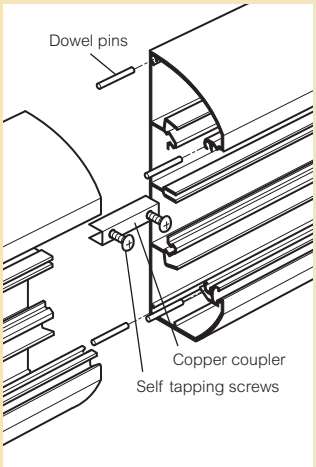
To achieve a high standard of installation, all aluminium trunking sections are to be cut squarely and accurately to length. In order to achieve this it is recommended that lengths are cut only with a power rotary saw with a non-ferrous metal cutting blade of at least 300 mm diameter.

■ Installation

The recommended fixing should be as shown in the diagram below, and no more than 600 mm apart. It is advisable not to over-tighten the fixings as this may cause distortion of the trunking base



The use of “Hilti” type hammer nails or similar “gun” type fixings is not recommended

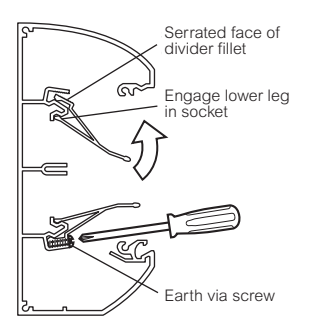


When joining adjacent base sections use the four supplied 3 mm diameter dowel pins as shown in diagram. The plated copper coupler and the self tapping screws provide a good earth connection between the trunking sections

■ Dividers

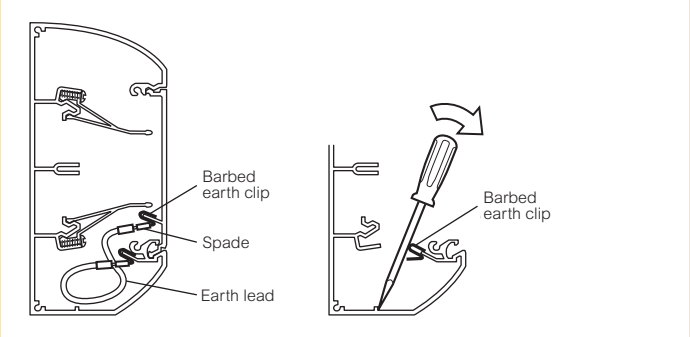
It is recommended that one screw per fillet is used to lock and earth the fillet

To insert a back box, divider fillets must be cut. They must butt up against the box



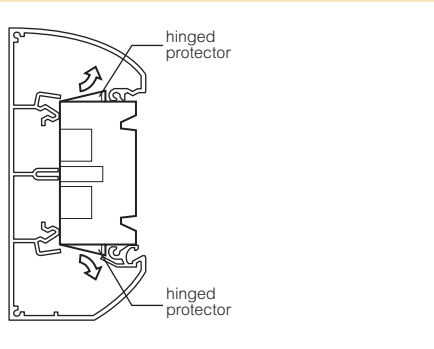
■ Earthing

The trunking lid must be earthed to the trunking base using the flexible earth lead

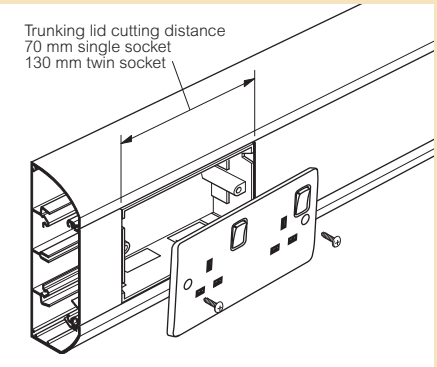


■ Back box installation

The plastic socket boxes do not need to be screwed to the base, do not require earthing and do not need grommets for wiring, which speeds up installation



■ Flush accessory fitting to plastic socket boxes



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 155
150 x 58 mm aluminium trunking



91501 01 + 91502 01

91501 09 + 91502 09

Dimensions and technical information (p. 167)
Accessories and plates (p. 166)

Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties
Wiring accessories must be fitted using plates
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)

Pack	Cat. Nos.	Trunking lengths
	White	
1	91501 01	Trunking body 2·4 m
1	91502 01	Cover 2·4 m
1	90102 XX	Divider 2·4 m
10	90110 XX	Universal coupler/earth link

Pack	Cat. Nos.	Trunking lengths
	Goose wing grey	
1	91501 09	Trunking body 2·4 m
1	91502 09	Cover 2·4 m
1	90102 XX	Divider 2·4 m
10	90110 XX	Universal coupler/earth link

	White	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	91513 01	**Internal corner**
1	91514 01	**External cast corner**
		Flat 90° bends
1	91531 01	Flat bend up
1	91532 01	Flat bend down
		Flat tees
		Supplied complete with crossover and two coupler sets
1	91533 01	Flat tee up
1	91534 01	Flat tee down
		End caps
1	91525 01	Left hand end cap
1	91526 01	Right hand end cap
		Internal cut-outs
1	91517 01	Left hand cut-out
1	91518 01	Right hand cut-out

Internal External





	Goose wing grey	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	91513 09	**Internal corner**
1	91514 09	**External cast corner**
		Flat 90° bends
1	91531 09	Flat bend up
1	91532 09	Flat bend down
		Flat tees
		Supplied complete with crossover and two coupler sets
1	91533 09	Flat tee up
1	91534 09	Flat tee down
		End caps
1	91525 09	Left hand end cap
1	91526 09	Right hand end cap
		Internal cut-outs
1	91517 09	Left hand cut-out
1	91518 09	Right hand cut-out



Internal External









		Clip-in back boxes
		Material : galvanised steel. Conform to BS 4662. Top, side and back knockout entries
1	91510 XX	1 gang – 35 mm deep
1	91511 XX	2 gang – 35 mm deep



		Clip-in back boxes
		Material : galvanised steel. Conform to BS 4662. Top, side and back knockout entries
1	91510 XX	1 gang – 35 mm deep
1	91511 XX	2 gang – 35 mm deep



(1) A Syntha Pulvin finish can be applied on request

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® system 180
175 x 69·5 mm aluminium trunking



91801 01 + 91502 01

91801 09 + 91502 09

Dimensions and technical information (p. 167)
Accessories and plates (p. 166)

Trunking lengths and fittings are manufactured from extruded aluminium and offer excellent screening and earthing properties
Wiring accessories must be fitted using plates
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)

Pack	Cat. Nos.	Trunking lengths
	White	
1	91801 01	Trunking body 2·4 m
1	91502 01	Cover 2·4 m
1	90108 XX	Divider 2·4 m
10	90110 XX	Universal coupler/earth link

	White	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	91813 01	**Internal corner**
1	91814 01	**External cast corner**
		Flat 90° bends
1	91831 01	Flat bend up
1	91832 01	Flat bend down
		Flat tees
		Supplied complete with crossover and two coupler sets
1	91833 01	Flat tee up
1	91834 01	Flat tee down
		End caps
1	91805 01	Left hand end cap
1	91806 01	Right hand end cap







		Clip-in back boxes
		Material : galvanised steel. Conform to BS 4662. Top, side and back knockout entries
		47mm deep back boxes are available to special order
1	91808 XX	1 gang – 35 mm deep
1	91809 XX	2 gang – 35 mm deep



Pack	Cat. Nos.	Trunking lengths
	Goose wing grey	
1	91801 09	Trunking body 2·4 m
1	91502 09	Cover 2·4 m
1	90108 XX	Divider 2·4 m
10	90110 XX	Universal coupler/earth link

	Goose wing grey	Fittings
		Supplied complete with lid, mitred dividers and coupler set
1	91813 09	**Internal corner**
1	91814 09	**External cast corner**
		Flat 90° bends
1	91831 09	Flat bend up
1	91832 09	Flat bend down
		Flat tees
		Supplied complete with crossover and two coupler sets
1	91833 09	Flat tee up
1	91834 09	Flat tee down
		End caps
1	91805 09	Left hand end cap
1	91806 09	Right hand end cap









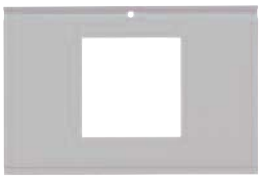
		Clip-in back boxes
		Material : galvanised steel. Conform to BS 4662. Top, side and back knockout entries
		47mm deep back boxes are available to special order
1	91808 XX	1 gang – 35 mm deep
1	91809 XX	2 gang – 35 mm deep



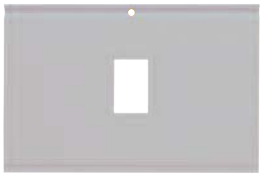
(1) A Syntha Pulvin finish can be applied on request

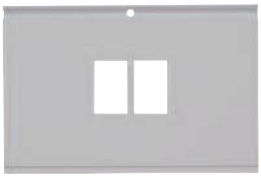
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

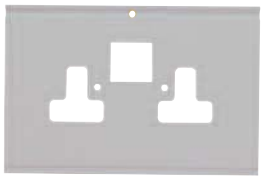
Rolfe King® systems 155 and 180
service outlet plates and accessories

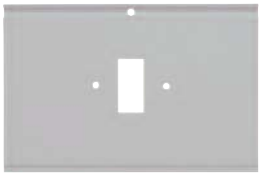

91651 09


91657 09


91658 09


91659 09


91662 09


91663 09


91690 09

Dimensions and technical information (p. 167)
For details on piercing please refer to technical section (p. 167)

All socket plates can be supplied complete with socket
Colour : white (RAL 9010) or goose wing grey (BS 00A05)
For other colours, please specify RAL number(1)
All service outlet plates must be fitted using lid retainers (supplied separately, see opposite)

Service outlet plates

Pack	Cat. Nos. White	Cat. Nos. Goose wing grey		
			1 gang outlet	
1	91651 01	91651 09	For flush socket	
			2 gang outlet	
1	91652 01	91652 09	For flush socket	
			BT master socket	
1	91657 01	91657 09	Panel mounted	
1	91658 01	91658 09	**Standard LJ6C outlet**	
1	91659 01	91659 09	**Twin LJ6C outlet**	
			1 gang switched socket	
1	91661 01	91661 09	Panel mounted	
			2 gang switched socket	
1	91662 01	91662 09	Panel mounted	
			1 x fuse switch unit	
1	91663 01	91663 09	Panel mounted	
			2 x fuse switch unit	
1	91664 01	91664 09	Panel mounted	
1	91690 01	91690 09	**Blank lid**	

(1) A Syntha Pulvin finish can be applied on request

Accessories

Pack	Cat. Nos.		
		Divider screw	
50	90103 XX	Secures divider in required position, and provides earth continuity between divider and trunking body	
		Lid retainer – black	
25	90144 XX	Secures socket outlet lid to trunking body	 90144 XX
		Lid retainer – white	
25	90145 XX	Secures socket outlet lid to trunking body	 90145 XX
		Cable retainer	
1	91507 XX	Material : PVC	 91507 XX
		Straight earth link	
10	90110 XX	Connects body to body and fitting to body. Provides earth continuity	 90110 XX
		Single flex earth lead	
10	90118 XX	Provides earth connection between back box and trunking body	 90118 XX
		Double flex earth lead	
10	90119 XX	Provides earth connection between lid and trunking body	 90119 XX



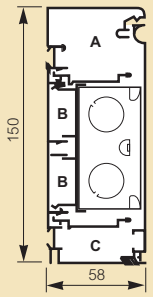
Rolfe King trunking is available in a wide range of RAL colours(1)

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Rolfe King® trunking
system 155 and system 180

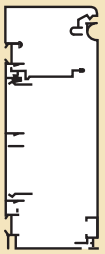
■ System 155

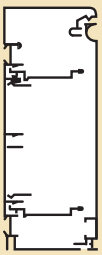


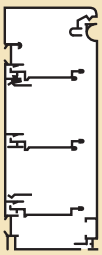
Compartment size (mm²)	With back box	Without back box
A	1 820	1 820
B	700	4 000
C	760	760

Space available behind back box : 15 mm

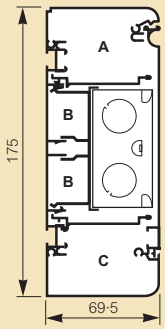

1 compartment


2 compartment


3 compartment


4 compartment

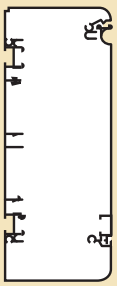
■ System 180

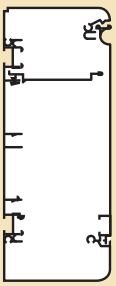


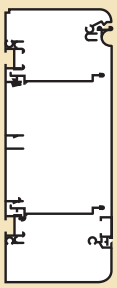
All dimensions (mm)

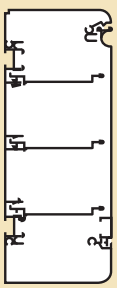
Compartment size (mm²)	With back box	Without back box
A	2 300	2 300
B	1 200	5 100
C	2 325	2 325

Space available behind back box : 29 mm


1 compartment


2 compartment


3 compartment


4 compartment

■ Data cabling compliancy

Providing that the installation is carried out correctly and data cables are installed to TIA / EIA-568-B standards, the range of Rolfe King trunking is compliant with current data cabling requirements, including Cat 6 cabling

The 35 mm deep back boxes will accept most manufacturers' data sockets

System 180 will accept 47 mm deep back boxes, which will allow maximum cabling, please contact us on : 0845 605 4333

■ Installation guidelines

Extrusion cutting

To achieve a high standard of installation, all aluminium trunking sections are to be cut squarely and accurately to length. In order to achieve this it is recommended that lengths are cut only with a power rotary saw with a non-ferrous metal cutting blade of at least 300 mm diameter

Installation

When joining adjacent base sections, the straight earth link should be used. One should be inserted into each of the two earthing slots of the base. The use fo alignment pins at the front edges is recommended

Dividers

Divider fillets may be slotted into the trunking base as required, being fixed and earthed by the screw supplied. If the middle divider is used, the divider fillet must be cut to abutt the ends of the back box assembly

Back box installation

The back box is fitted by snapping into the trunking base. The back box assembly is earthed using the singe ended flexible earth link provided. This is fitted into the outside of the earth terminal of the box, and using the screw supplied into a suitable screw channel in the base

Accessory fitting

The widest possible range of power, data and telephone outlets can be supplied in the following way :

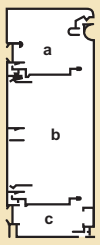
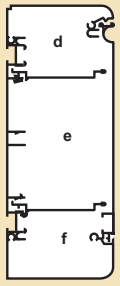
- Factory fitted, flush in accessory plates
- Pierced plates, with loose wiring accessory as a kit
- Pierced plates only, to accept accessories to be fitted on site

Panel mounted accessories are fitted to the trunking lid

Fascia type accessories are fitted through the pierced accessory plate into the fixing lugs of the back box assembly

All accessory lids are pierced for lid fixing, and must be fixed with a lid retainer and fixing screw

■ Cable capacity

150 x 58	175 x 69·5
	
91501 01/09	91801 01/09
SYSTEM 155	SYSTEM 180

Cable capacity (number of cables at 45% fill)

	Empty compartment				Compartment with 35 mm back box			
	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP	Cat 5e UTP	Cat 5e STP	Cat 6 UTP	Cat 6 STP
a	27	23	19	17	-	-	-	-
b	60	50	43	37	10	9	7	6
c	11	10	8	7	-	-	-	-
d	34	29	25	21	-	-	-	-
e	76	64	54	47	18	15	13	11
f	35	29	25	21	-	-	-	-

Cable factor

	Type of conductor	Size	Cable factor
Data cables	Cat. 5e UTP	Ø 5·5 mm(1)	30·2
	Cat. 5e STP	Ø 6·0 mm(1)	36·0
	Cat. 6 UTP	Ø 6·5 mm(1)	42·2
	Cat. 6 STP	Ø 7·0 mm(1)	49·0

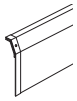
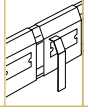
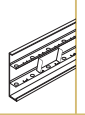
(1) typical values, check with manufacturer

For each size of cable multiply the number to be installed by its own factor. Add together the results for all cable sizes. The resulting sum should be equal or less than the trunking capacity. It is recommended that each compartment should not be filled over 45% of its full capacity

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

steel perimeter trunking profiles and accessories

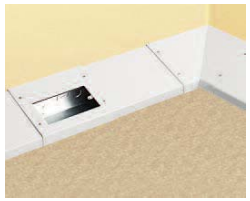
Section (mm)			Number of compartments	Page No.	TRUNKING		90° BENDS						TEES		TEES					END CAP	SOCKET PLATES		SOCKET OUTLET PLATES				BACK BOX	FIXINGS
					Body	Lid	Internal bend	External bend	Flat rising bend		Flat descending bend		Internal tee		Back entry tee		Flat tee				Single switched socket fitted	Twin switched socket fitted	Single socket piercing	Twin socket piercing	Telecom/data socket plate	Socket plate spacer	Back box	Bridge and strap
																										
SKIRTING	150 X 50	Chamfer	2	170	SK622TKBY	SK620TKLP	SK622IN	SK622EX	SK622LRB	SK622RRB	–	–	SK622LIT	SK622RIT	SK622LBT	SK622RBT	SK622FRT	–	SK620EP	SK622SPP	SK622TPP	SK622SSP	SK622TSP	SK622TDP	SK620PAP	SK622BB	SK620LFP
			3	170	SK623TKBY	SK620TKLP	SK623IN	SK623EX	SK623LRB	SK623RRB	–	–	SK623LIT	SK623RIT	SK623LBT	SK623RBT	SK623FRT	–	SK620EP	SK623SPP	SK623TPP	SK623SSP	SK623TSP	SK623TDP	SK620PAP	SK623BB	SK620LFP
	200 X 50	Chamfer	2	171	SK822TKBY	SK820TKLP	SK822IN	SK822EX	SK822LRB	SK822RRB	–	–	SK822LIT	SK822RIT	SK822LBT	SK822RBT	SK822FRT	–	SK820EP	SK820SPP	SK820TPP	SK820SSP	SK820TSP	SK820TDP	SK820PAP	SK822BB	SK820LFP
			3	171	SK823TKBY	SK820TKLP	SK823IN	SK823EX	SK823LRB	SK823RRB	–	–	SK823LIT	SK823RIT	SK823LBT	SK823RBT	SK823FRT	–	SK820EP	SK820SPP	SK820TPP	SK820SSP	SK820TSP	SK820TDP	SK820PAP	SK823BB	SK820LFP
DADO	175 X 50	Chamfer	3	172	PD723TKBY	PD720TKLP	PD723IN	PD723EX	PD723LRB	PD723RRB	PD723LDB	PD723RDB	PD723LIT	PD723RIT	PD723LBT	PD723RBT	PD723FRT	PD723FDT	PD720EP	PD720SPP	PD720TPP	PD720SSP	PD720TSP	PD720TDP	PD720PAP	PD720BB	PD720LFP
	150 X 50	Square	2	173	SD622TKBY	SD620TKLP	SD622IN	SD622EX	SD622LRB	SD622RRB	SD622LDB	SD622RDB	SD622LIT	SD622RIT	SD622LBT	SD622RBT	SD622FRT	SD622FDT	SD620EP	SD622SPP	SD622TPP	SD622SSP	SD622TSP	SD622TDP	SD620PAP	SD622BB	SD620LFP
			3	173	SD623TKBY	SD620TKLP	SD623IN	SD623EX	SD623LRB	SD623RRB	SD623LDB	SD623RDB	SD623LIT	SD623RIT	SD623LBT	SD623RBT	SD623FRT	SD623FDT	SD620EP	SD623SPP	SD623TPP	SD623SSP	SD623TSP	SD623TDP	SD620PAP	SD623BB	SD620LFP
	200 X 50	Chamfer	3	174	PD823TKBY	PD820TKLP	PD823IN	PD823EX	PD823LRB	PD823RRB	PD823LDB	PD823RDB	PD823LIT	PD823RIT	PD823LBT	PD823RBT	PD823FRT	PD823FDT	PD820EP	PD820SPP	PD820TPP	PD820SSP	PD820TSP	PD820TDP	PD820PAP	PD820BB	PD820LFP
		Square	3	175	SD823TKBY	SD820TKLP	SD823IN	SD823EX	SD823LRB	SD823RRB	SD823LDB	SD823RDB	SD823LIT	SD823RIT	SD823LBT	SD823RBT	SD823FRT	SD823FDT	SD820EP	SD820SPP	SD820TPP	SD820SSP	SD820TSP	SD820TDP	SD820PAP	SD823BB	SD820LFP
BENCH	140 X 75	-	2	176	BT2TKBY	BT2TKLP	BT2IN	BT2EX	–	–	–	–	–	–	–	–	–	–	BT2EP	–	–	BT2SSP	BT2TSP	–	BT2PAP	BT2BB	BT2LFP



Skirting chamfer 150 x 50



Dado chamfer 175 x 50

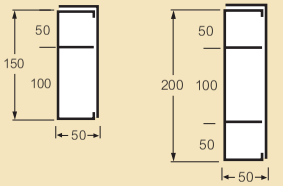


Bench trunking 140 x 75

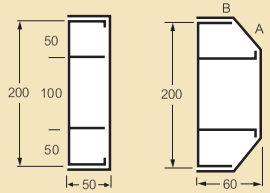
All skirting and dado trunking, bench trunking and pedestal units are available in other dimensions and compartment configurations to special order.

Examples are shown below (all dimensions in mm)

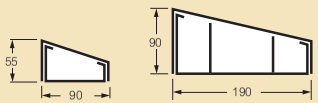
skirting

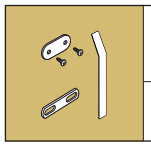


dado



bench



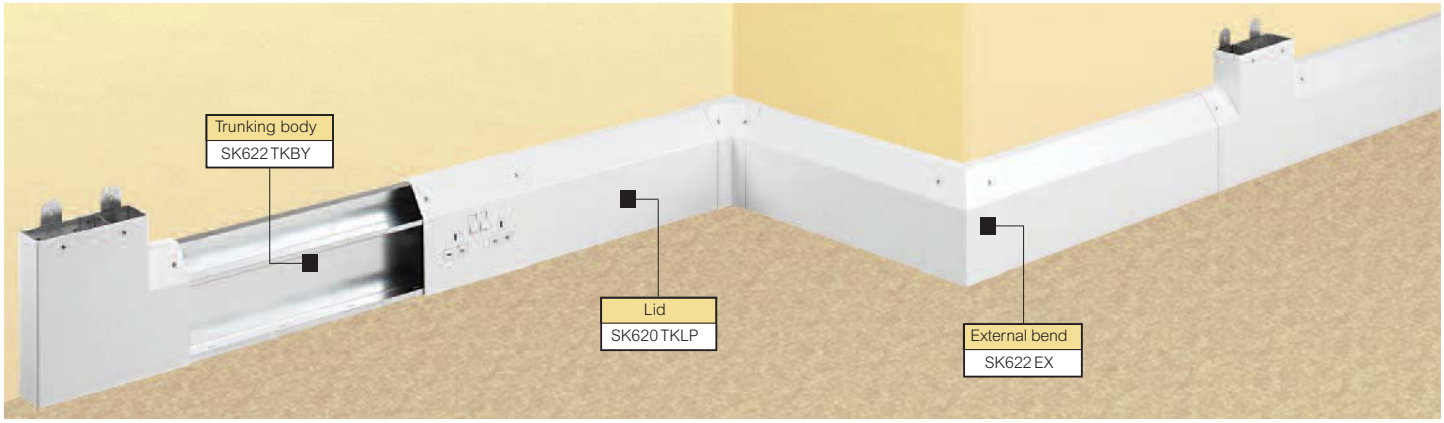


For other accessories

see p. 177-181

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 150 x 50
skirting trunking - chamfer – 2 and 3 compartment



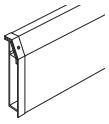
Dimensions and technical information (p. 178-181)

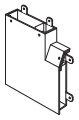
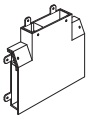
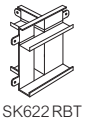
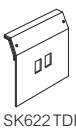
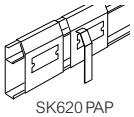
Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

Chamfer - 2 compartment

Pack	Cat. Nos.	
		Trunking length – 2 m
1	SK622 TKBY	Trunking body
1	SK620 TKLP	Lid
		End caps
1	SK620 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SK622 IN	Internal bend
1	SK622 EX	External bend
		Bends rise to a square dado trunking Cat. No. SD 622 (see p. 175)
1	SK622 LRB	Left hand flat rising bend
1	SK622 RRB	Right hand flat rising bend
		Tees
1	SK622 LIT	Left hand internal tee
1	SK622 RIT	Right hand internal tee
		Tees rise to a square dado trunking Cat. No. SD 622 (see p. 175)
1	SK622 FRT	Flat rising tee
		No lid supplied with back entry tees
1	SK622 LBT	Left hand back entry tee
1	SK622 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SK622 SPP	13 A single switched socket fitted
1	SK622 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SK622 SSP	Single socket piercing
1	SK622 TSP	Twin socket piercing
1	SK622 TDP	Telecom/data socket plate
		Fittings
1	SK622 BB	Back box
1	SK620 PAP	Socket plate spacer-P. coated
		Accessories
1	SK620 CR	Cable retainer
1	SK620 LFP	Bridge and strap
1	SK620 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5

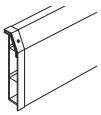
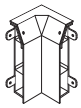
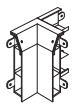
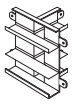


SK620 EP

SK622 LRB

SK622 FRT

SK622 RBT

SK622 TDP

SK620 PAP

SKBC EL

Chamfer - 3 compartment

Pack	Cat. Nos.	
		Trunking length – 2 m
1	SK623 TKBY	Trunking body
1	SK620 TKLP	Lid
		End caps
1	SK620 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SK623 IN	Internal bend
1	SK623 EX	External bend
		Bends rise to a square dado trunking Cat. No. SD 623 (see p. 175)
1	SK623 LRB	Left hand flat rising bend
1	SK623 RRB	Right hand flat rising bend
		Tees
1	SK623 LIT	Left hand internal tee
1	SK623 RIT	Right hand internal tee
		Tees rise to a square dado trunking Cat. No. SD 623 (see p. 175)
1	SK623 FRT	Flat rising tee
		No lid supplied with back entry tees
1	SK623 LBT	Left hand back entry tee
1	SK623 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SK623 SPP	13 A single switched socket fitted
1	SK623 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SK623 SSP	Single socket piercing
1	SK623 TSP	Twin socket piercing
1	SK623 TDP	Telecom/data socket plate
		Fittings
1	SK623 BB	Back box
1	SK620 PAP	Socket plate spacer
		Accessories
1	SK620 CR	Cable retainer
1	SK620 LFP	Bridge and strap
1	SK620 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5



SK623 IN

SK623 RIT

SK623 LBT

SK623 TPP

SK623 TSP

SK623 BB

SK620 LFP

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 200 x 50
skirting trunking - chamfer – 2 and 3 compartment

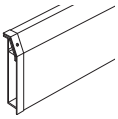


Dimensions and technical information (p. 178-181)

Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-gavanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

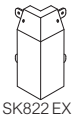
All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

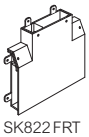
Chamfer - 2 compartment

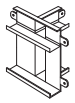


Pack	Cat. Nos.	
		Trunking length – 2 m
1	SK822 TKBY	Trunking body
1	SK820 TKLP	Lid
		End caps
1	SK820 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SK822 IN	Internal bend
1	SK822 EX	External bend
		Bends rise to a square dado trunking Cat. No. SD 822 (see p. 175)
1	SK822 LRB	Left hand flat rising bend
1	SK822 RRB	Right hand flat rising bend
		Tees
1	SK822 LIT	Left hand internal tee
1	SK822 RIT	Right hand internal tee
		Tees rise to a square dado trunking Cat. No. SD 822 (see p. 175)
1	SK822 FRT	Flat rising tee
		No lid supplied with back entry tees
1	SK822 LBT	Left hand back entry tee
1	SK822 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SK820 SPP	13 A single switched socket fitted
1	SK820 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SK820 SSP	Single socket piercing
1	SK820 TSP	Twin socket piercing
1	SK820 TDP	Telecom/data socket plate
		Fittings
1	SK822 BB	Back box
1	SK820 PAP	Socket plate spacer
		Accessories
1	SK820 CR	Cable retainer
1	SK820 LFP	Bridge and strap
1	SK820 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5


SK820 EP


SK822 EX


SK822 FRT

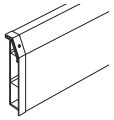

SK822 LBT


SK820 TDP

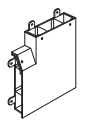

SK822 BB

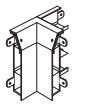

SKBC EL

Chamfer - 3 compartment

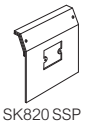


Pack	Cat. Nos.	
		Trunking length – 2 m
1	SK823 TKBY	Trunking body
1	SK820 TKLP	Lid
		End caps
1	SK820 EP	Pack of 2 containing a left and a right cap
		90° bends
1	SK823 IN	Internal bend
1	SK823 EX	External bend
		Bends rise to a square dado trunking Cat. No. SD 823 (see p. 175)
1	SK823 LRB	Left hand flat rising bend
1	SK823 RRB	Right hand flat rising bend
		Tees
1	SK823 LIT	Left hand internal tee
1	SK823 RIT	Right hand internal tee
		Tees rise to a square dado trunking Cat. No. SD 823 (see p. 175)
1	SK823 FRT	Flat rising tee
		No lid supplied with back entry tees
1	SK823 LBT	Left hand back entry tee
1	SK823 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SK820 SPP	13 A single switched socket fitted
1	SK820 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SK820 SSP	Single socket piercing
1	SK820 TSP	Twin socket piercing
1	SK820 TDP	Telecom/data socket plate
		Fittings
1	SK823 BB	Back box
1	SK820 PAP	Socket plate spacer
		Accessories
1	SK820 CR	Cable retainer
1	SK820 LFP	Bridge and strap
1	SK820 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5


SK823 RRB


SK823 RIT

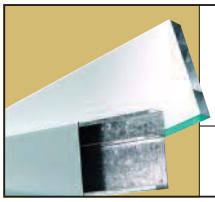

SK820 TPP


SK820 SSP


SK823 BB


SK820 CR


SK820 LFP

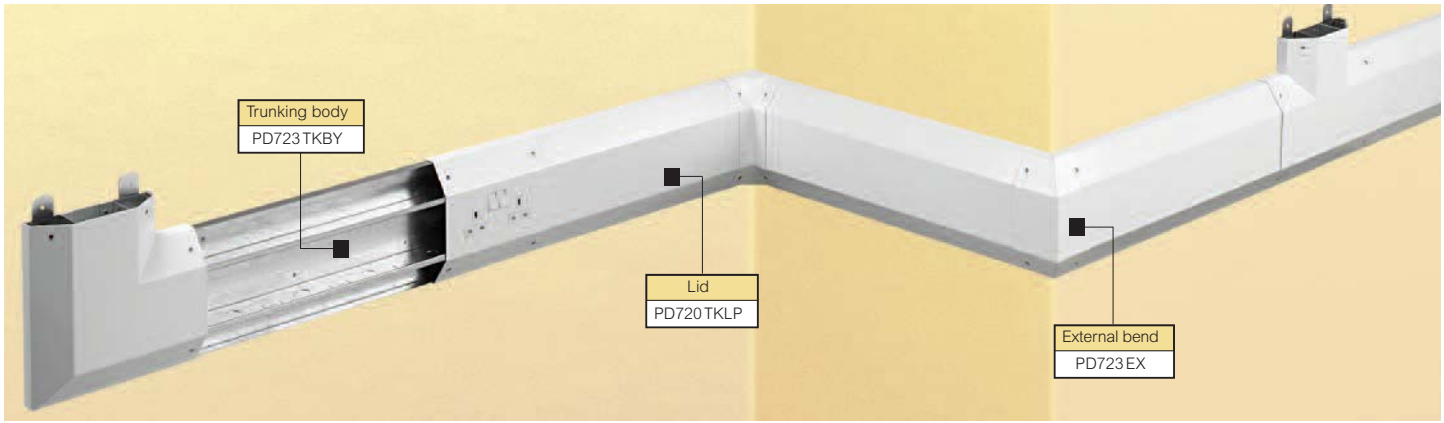


All skirting and dado trunking is available in other dimensions and compartment configurations to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 175 x 50
dado trunking - chamfer – 3 compartment

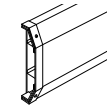


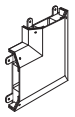
Dimensions and technical information (p. 178-181)

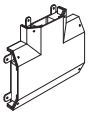
Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

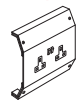
Pack	Cat. Nos.	Chamfer - 3 compartment
		Trunking length – 2 m
1	PD723TKBY	Trunking body
1	PD720TKLP	Lid
		End caps
1	PD720EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	PD723IN	Internal bend
1	PD723EX	External bend
1	PD723LRB	Left hand flat rising bend
1	PD723RRB	Right hand flat rising bend
1	PD723LDB	Left hand flat descending bend
1	PD723RDB	Right hand flat descending bend
		Tees
1	PD723LIT	Left hand internal tee
1	PD723RIT	Right hand internal tee
1	PD723FRT	Flat rising tee
1	PD723FDT	Flat descending tee
		No lid supplied with back entry tees
1	PD723LBT	Left hand back entry tee
1	PD723RBT	Right hand back entry tee

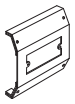

PD720EP

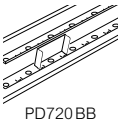

PD723RRB


PD723FRT

Pack	Cat. Nos.	Chamfer - 3 compartment (continued)
		Socket plates
		Panel mounted, complete with :
1	PD720SPP	13 A single switched socket fitted
1	PD720TPP	13 A twin switched socket fitted
		Socket outlet plates
1	PD720SSP	Single socket piercing
1	PD720TSP	Twin socket piercing
1	PD720TDP	Telecom/data socket plate
		Fittings
1	PD720BB	Back box
1	PD720PAP	Socket plate spacer
		Accessories
1	PD720CR	Cable retainer
1	PD720LFP	Bridge and strap
1	PD720BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5


PD720TPP


PD720TSP

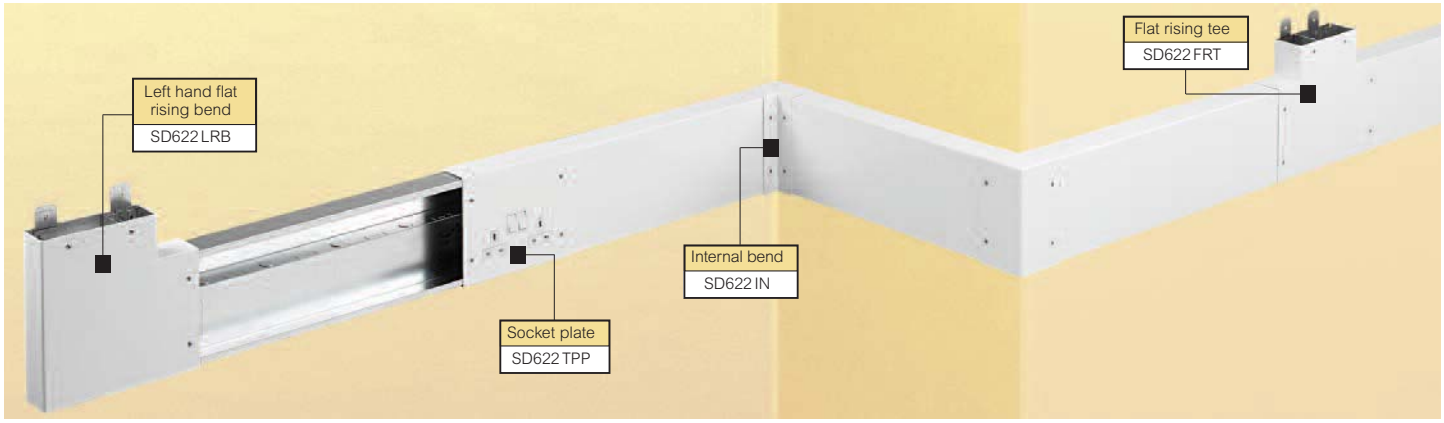

PD720BB


SKBC EL PD720LFP

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 150 x 50

dado trunking – square - 2 and 3 compartment

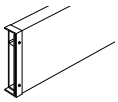


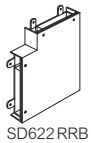
Dimensions and technical information (p. 178-181)

Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

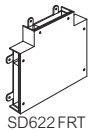
All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

Pack	Cat. Nos.	Square - 2 compartment
		Trunking length – 2 m
1	SD622 TKBY	Trunking body
1	SD620 TKLP	Lid
		End caps
1	SD620 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SD622 IN	Internal bend
1	SD622 EX	External bend
1	SD622 LRB	Left hand flat rising bend
1	SD622 RRB	Right hand flat rising bend
1	SD622 LDB	Left hand flat descending bend
1	SD622 RDB	Right hand flat descending bend
		Tees
1	SD622 LIT	Left hand internal tee
1	SD622 RIT	Right hand internal tee
1	SD622 FRT	Flat rising tee
1	SD622 FDT	Flat descending tee
		No lid supplied with back entry tees
1	SD622 LBT	Left hand back entry tee
1	SD622 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SD622 SPP	13 A single switched socket fitted
1	SD622 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SD622 SSP	Single socket piercing
1	SD622 TSP	Twin socket piercing
1	SD622 TDP	Telecom/data socket plate
		Fittings
1	SD622 BB	Back box
1	SD620 PAP	Socket plate spacer
		Accessories
1	SD620 CR	Cable retainer
1	SD620 LFP	Bridge and strap
1	SD620 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5

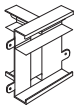




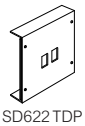
SD622 RRB



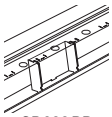
SD622 FRT



SD622 RBT



SD622 TDP

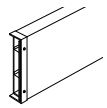


SD622 BB



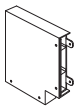
SKBC EL

Pack	Cat. Nos.	Square - 3 compartment
		Trunking length – 2 m
1	SD623 TKBY	Trunking body
1	SD620 TKLP	Lid
		End caps
1	SD620 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SD623 IN	Internal bend
1	SD623 EX	External bend
1	SD623 LRB	Left hand flat rising bend
1	SD623 RRB	Right hand flat rising bend
1	SD623 LDB	Left hand flat descending bend
1	SD623 RDB	Right hand flat descending bend
		Tees
1	SD623 LIT	Left hand internal tee
1	SD623 RIT	Right hand internal tee
1	SD623 FRT	Flat rising tee
1	SD623 FDT	Flat descending tee
		No lid supplied with back entry tees
1	SD623 LBT	Left hand back entry tee
1	SD623 RBT	Right hand back entry tee
		Socket plates
		Panel mounted, complete with :
1	SD623 SPP	13 A single switched socket fitted
1	SD623 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SD623 SSP	Single socket piercing
1	SD623 TSP	Twin socket piercing
1	SD623 TDP	Telecom/data socket plate
		Fittings
1	SD623 BB	Back box
1	SD620 PAP	Socket plate spacer
		Accessories
1	SD620 CR	Cable retainer
1	SD620 LFP	Bridge and strap
1	SD620 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5

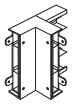




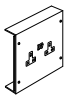
SD620 EP



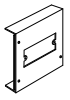
SD623 LDB



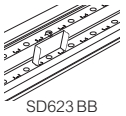
SD623 RIT



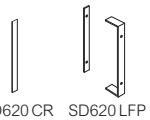
SD623 TPP



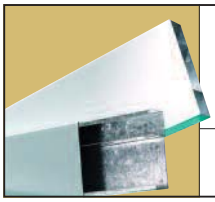
SD623 TSP



SD623 BB



SD620 CR SD620 LFP

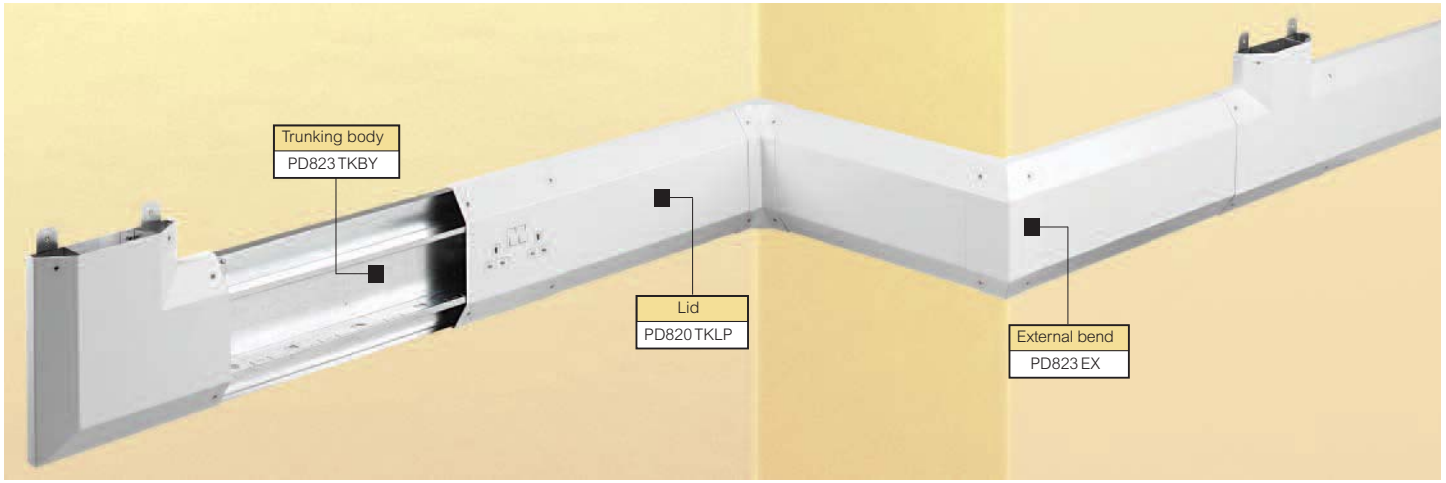


All skirting and dado trunking is available in other dimensions and compartment configurations to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 200 x 50
dado trunking – chamfer – 3 compartment

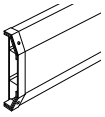


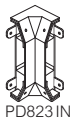
Dimensions and technical information (p. 178-181)

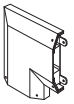
Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number

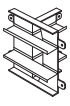
Zintec finish is available on request (Zintec lids are to be painted on site)
All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

Pack	Cat. Nos.	Chamfer - 3 compartment
		Trunking length – 2 m
1	PD823 TKBY	Trunking body
1	PD820 TKLP	Lid
		End caps
1	PD820 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	PD823 IN	Internal bend
1	PD823 EX	External bend
1	PD823 LRB	Left hand flat rising bend
1	PD823 RRB	Right hand flat rising bend
1	PD823 LDB	Left hand flat descending bend
1	PD823 RDB	Right hand flat descending bend
		Tees
1	PD823 LIT	Left hand internal tee
1	PD823 RIT	Right hand internal tee
1	PD823 FRT	Flat rising tee
1	PD823 FDT	Flat descending tee
		No lid supplied with back entry tees
1	PD823 LBT	Left hand back entry tee
1	PD823 RBT	Right hand back entry tee

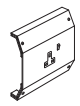


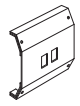

PD823 IN

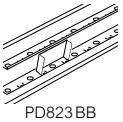

PD823 LDB


PD823 LBT

Pack	Cat. Nos.	Chamfer - 3 compartment (continued)
		Socket plates
1	PD820 SPP	Panel mounted, complete with : 13 A single switched socket fitted
1	PD820 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	PD820 SSP	Single socket piercing
1	PD820 TSP	Twin socket piercing
1	PD820 TDP	Telecom/data socket plate
		Fittings
1	PD820 BB	Back box
1	PD820 PAP	Socket plate spacer
		Accessories
1	PD820 CR	Cable retainer
1	PD820 LFP	Bridge and strap
1	PD820 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5


PD820 SPP

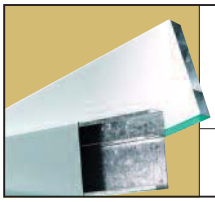

PD820 TDP


PD823 BB


SKBC


EL


PD820 LFP

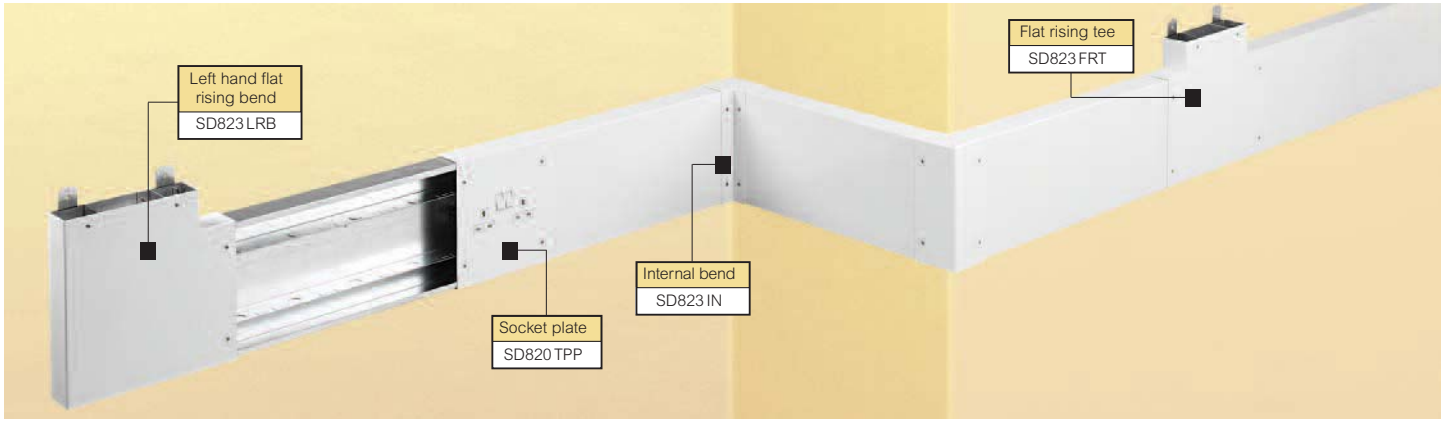


All skirting and dado trunking is available in other dimensions and compartment configurations to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems 200 x 50
dado trunking – square - 3 compartment

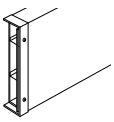


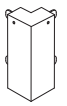
Dimensions and technical information (p. 178-181)

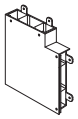
Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid (except back entry tees)
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

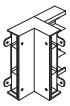
All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

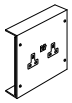
Pack	Cat. Nos.	Square - 3 compartment
		Trunking length – 2 m
1	SD823 TKBY	Trunking body
1	SD820 TKLP	Lid
		End caps
1	SD820 EP	Pack of 2 containing a left and a right hand cap
		90° bends
1	SD823 IN	Internal bend
1	SD823 EX	External bend
1	SD823 LRB	Left hand flat rising bend
1	SD823 RRB	Right hand flat rising bend
1	SD823 LDB	Left hand flat descending bend
1	SD823 RDB	Right hand flat descending bend
		Tees
1	SD823 LIT	Left hand internal tee
1	SD823 RIT	Right hand internal tee
1	SD823 FRT	Flat rising tee
1	SD823 FDT	Flat descending tee
		No lid supplied with back entry tees
1	SD823 LBT	Left hand back entry tee
1	SD823 RBT	Right hand back entry tee
		Socket plates
1	SD820 SPP	Panel mounted, complete with : 13 A single switched socket fitted
1	SD820 TPP	13 A twin switched socket fitted
		Socket outlet plates
1	SD820 SSP	Single socket piercing
1	SD820 TSP	Twin socket piercing
1	SD820 TDP	Telecom/data socket plate

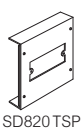



SD823 EX


SD823 LDB

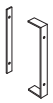

SD823 RIT

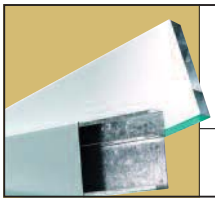

SD820 TPP


SD820 TSP

Pack	Cat. Nos.	Square - 3 compartment (continued)
		Fittings
1	SD823 BB	Back box
1	SD820 PAP	Socket plate spacer
		Accessories
1	SD820 CR	Cable retainer
1	SD820 LFP	Bridge and strap
1	SD820 BO	Bridge only
5	SKBC	Body coupler
10	EL	Earth link
50	WM3·5	Lid screw, M 3·5


SD823 BB


SD820 LFP

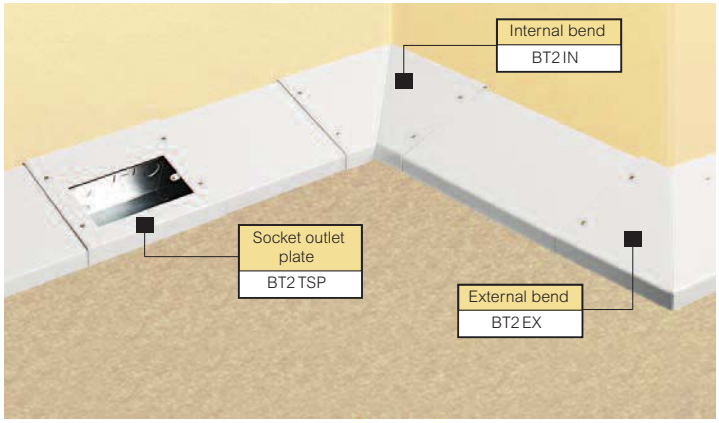


All skirting and dado trunking is available in other dimensions and compartment configurations to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

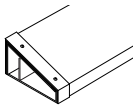
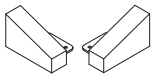
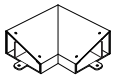
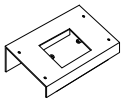
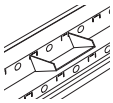
steel perimeter trunking systems
bench trunking



Dimensions and technical information (p. 177)

Body and lid for trunking lengths to be purchased separately
Fittings supplied complete with body and lid
Body : pre-galvanised steel to BS EN 10142 and 3
Lid : zinc coated mild steel to BS EN 10152
Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number
Zintec finish is available on request (Zintec lids are to be painted on site)

All bodies, lids and fittings supplied complete with couplers and fixing screws. Earth links to be purchased separately

Pack	Cat. Nos.	**Bench trunking - 140 x 75 2 compartment**	
		Trunking length – 2 m	
1	BT2 TKBY	Trunking body	
1	BT2 TKLP	Lid	
		End caps	
1	BT2 EP	Pack of 2 containing a left and a right hand cap	 BT2 EP
		90° bends	
1	BT2 IN	Internal bend	 BT2 IN
1	BT2 EX	External bend	
		Socket outlet plates	
1	BT2 SSP	Single socket piercing	 BT2 SSP
1	BT2 TSP	Twin socket piercing	
		Fittings	 BT2 BB
1	BT2 BB	Back box	
1	BT2 PAP	Socket plate spacer	
		Accessories	
1	BT2 LFP	Bridge and strap	 SKBC
5	SKBC	Body coupler	
10	EL	Earth link	 EL
50	WM3·5	Lid screw, M 3·5	

steel perimeter trunking systems
pedestal units

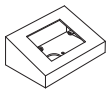
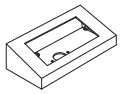
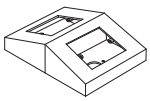
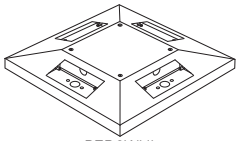


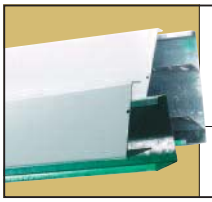
Dimensions and technical information (p. 177)

Material : zinc coated mild steel to BS EN 10152

Colour : white epoxy powder coated, RAL 9003. For other colours, please specify RAL number

Zintec finish is available on request (Zintec pedestal units are to be painted on site)

Pack	Cat. Nos.	**Pedestal units**	
1	PED1WHI	**Single socket**	 PED1WHI
1	PED2WHI	**Twin socket**	 PED2WHI
1	PED3WHI	**Back-to-back single sockets**	 PED3WHI
1	PED4WHI	**Back-to-back twin sockets**	 PED4WHI
1	PED8WHI	**Pyramid box**	 PED8WHI



Bench trunking and pedestal units are available in other dimensions and compartment configurations to special order

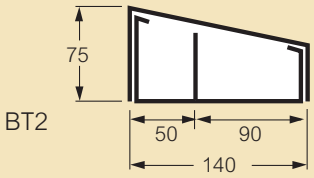
Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

steel perimeter trunking systems
bench trunking and pedestal units

■ Bench trunking dimensions

All dimensions (mm) are nominal

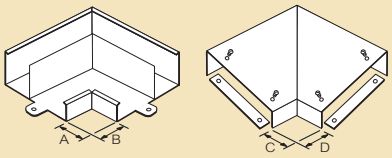


Internal and external 90° bends

Internal bend

Body	
A	50
B	50

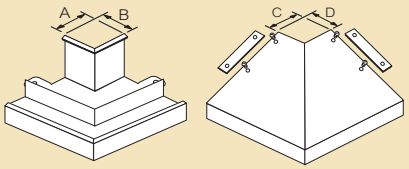
Lid	
C	45
D	45



External bend

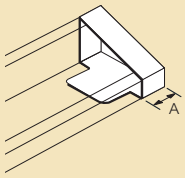
Body	
A	50
B	50

Lid	
C	45
D	45



End stop

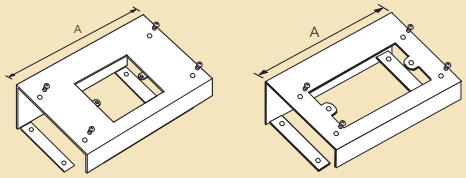
A	30



Socket outlet plates

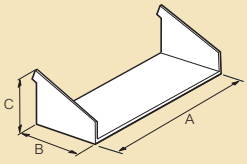
Single and twin socket piercing

A	190



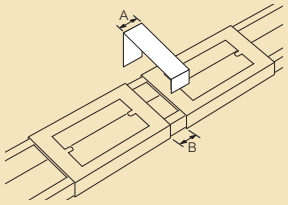
Back box

Body	
A	139
B	90
C	40



Socket plate spacer

A	40
B	24

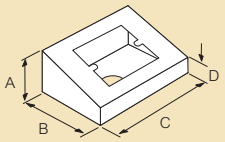


■ Pedestal units dimensions

All dimensions (mm) are nominal

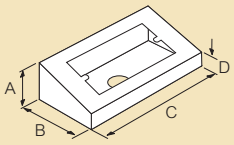
Single socket

A	54
B	89
C	102
D	24



Twin socket

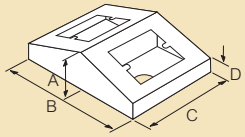
A	54
B	89
C	162
D	24



Back-to-back sockets

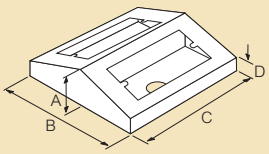
single socket

A	54
B	178
C	102
D	24



twin socket

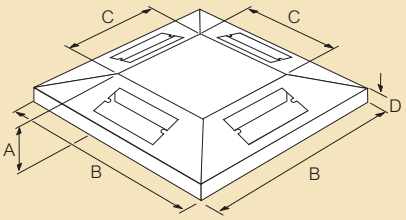
A	54
B	178
C	162
D	24



For all pedestal units above, hole diameter in base is 20 mm

Pyramid box

A	55
B	368
C	184
D	24

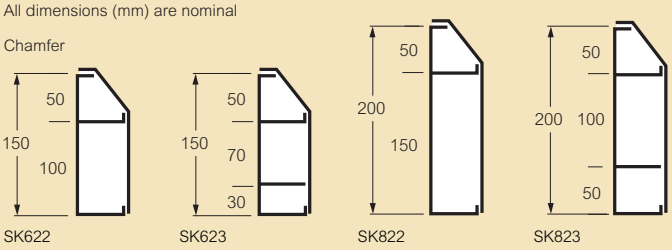


ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Skirting trunking dimensions

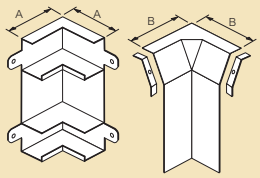
All dimensions (mm) are nominal

Chamfer



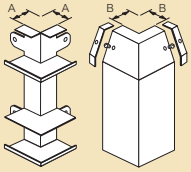
90° bends

Internal bend



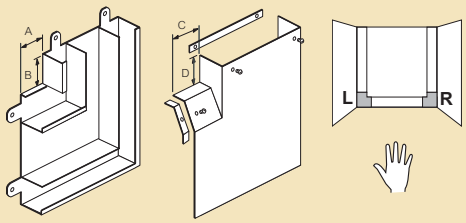
Body	
A	76
Lid	
B	82

External bend



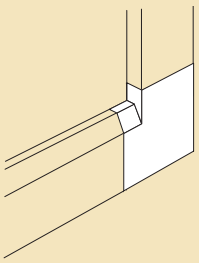
Body	
A	45
Lid	
B	30

Flat rising bend



Right hand flat rising bend

Body	
A	60
B	60
Lid	
C	58
D	57

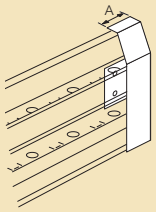


Use a 90° flat rising bend with a length of square dado trunking to connect to other trunking systems, (see p. 170-171)

Handed fittings
Left and right hand options are available for some fittings. Ensure correct handing when ordering.

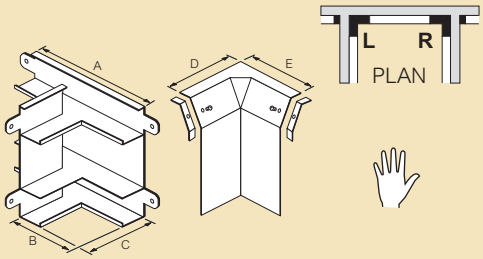
End cap

A	30



Tees

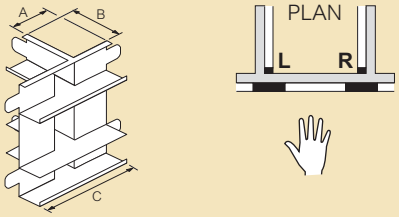
Internal tee



Left hand internal tee

Body	
A	169
B	109
C	109
Lid	
D	82
E	82

Back entry tee

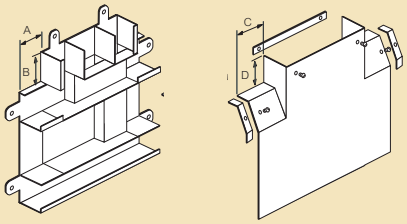


Right hand back entry tee

Body	
A	60
B	60
C	169

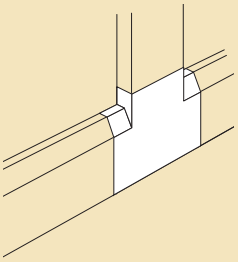
Separate lids for back entry tees are not required. Use trunking length lids, purchased separately (see p. 170-171)

Flat rising tee



Body	
A	60
B	60

Lid	
C	58
D	58

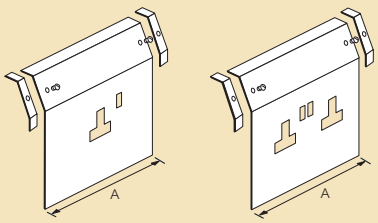


Use a flat rising tee with a length of square dado trunking to connect to other trunking systems, (see p. 170-171)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Socket plates

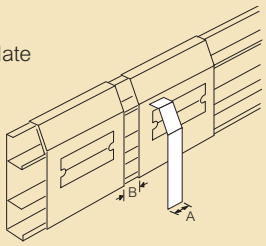
A	190



Socket plate spacer

When socket plates are to be fixed next to each other, fit a socket plate spacer between the trunking body and socket plate

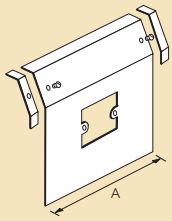
A	40
B	24



Socket outlet plates

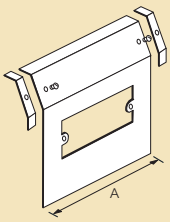
A	190

Single socket piercing



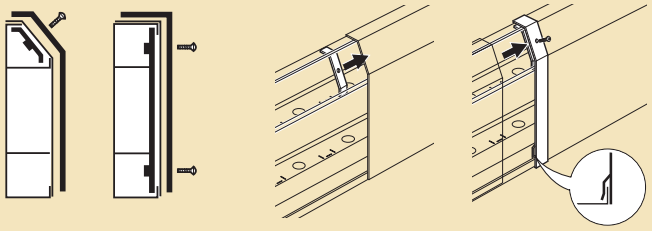
Accessory fixing centres : 60·3 mm

Twin socket piercing



Accessory fixing centres : 120·6 mm

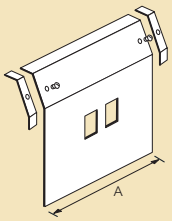
Bridge and strap fixing



Telecom / data socket plate

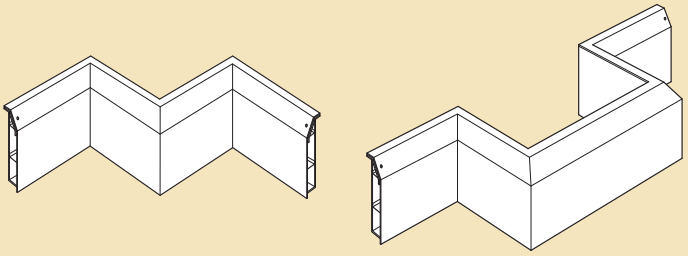
Cut-out size is 37 x 22 mm
Other cut-outs are available on request

A	190

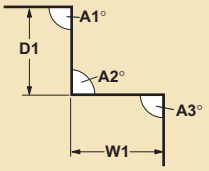


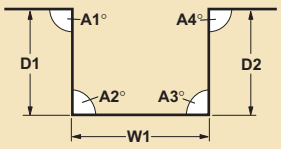
Pier sets

Pier sets can be factory made and supplied to meet customers' specific requirements.
In order to specify a pier set the following measurements are necessary :



Length	Angles
D1	A1
D2	A2
W1	A3
	A4





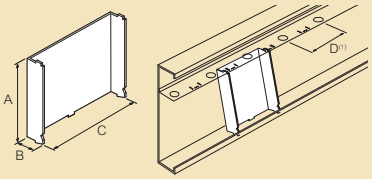
Pier sets can also be easily fabricated on site using a combination of inside and outside bends and trunking lengths

Back box

2 compartment back box

	Trunking size	
	150 x 50	200 x 50
A	100	150
B	30	30
C	139	139
D[1]	111	111

[1] D = distance between knockouts

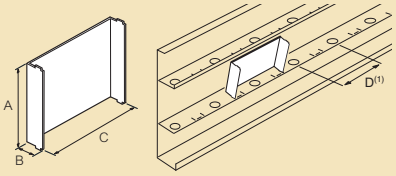


Space behind back box : 20 mm

3 compartment back box

	Trunking size	
	150 x 50	200 x 50
A	70	100
B	30	30
C	139	139
D[1]	111	111

[1] D = distance between knockouts



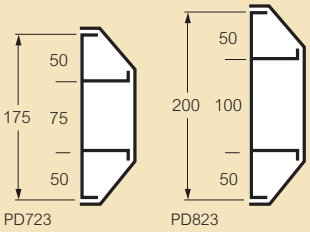
Space behind back box : 20 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

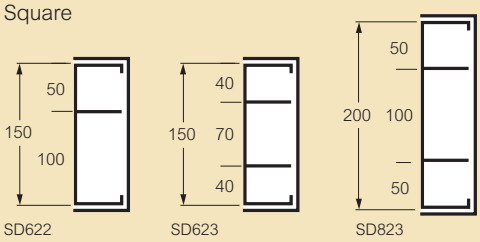
■ Dado trunking dimensions

All dimensions (mm) are nominal

Chamfer



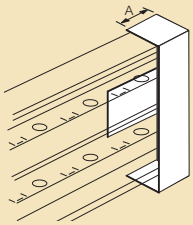
Square



End caps

Dimensions (mm) are for chamfer and square

A	30

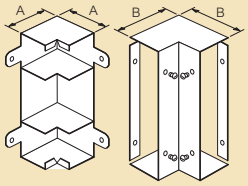


90° bends

Dimensions (mm) are for chamfer and square

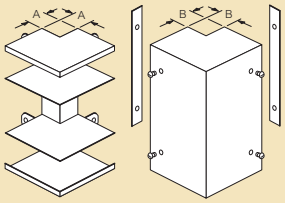
Internal bend

Body	
A	76
Lid	
B	81



External bend

Body	
A	45
Lid	
B	30



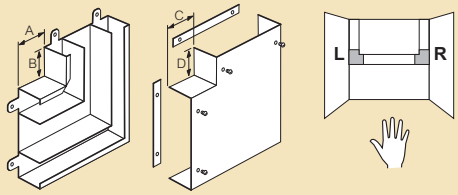
Handed fittings
Left and right hand options are available for some fittings
Ensure correct handing when ordering

90° bends (continued)

Dimensions (mm) are for chamfer and square

Flat rising bend

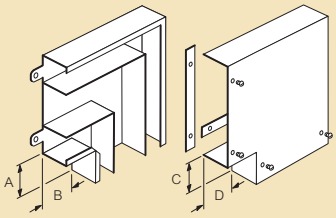
Body	
A	60
B	60
Lid	
C	58
D	58



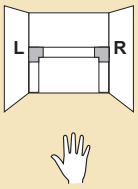
Right hand flat rising bend

Flat descending bend

Body	
A	60
B	60
Lid	
C	58
D	58



Right hand flat descending bend

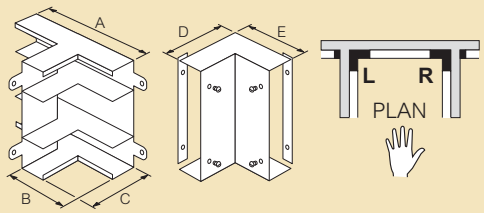


Tees

Dimensions (mm) are for chamfer and square

Internal tee

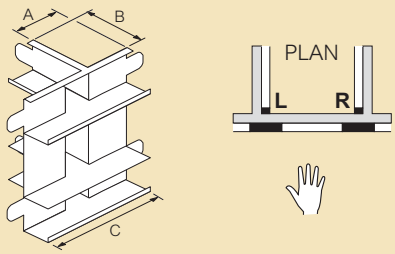
Body	
A	169
B	109
C	109
Lid	
D	81
E	81



Left hand internal tee

Back entry tee

Body	
A	60
B	60
C	169

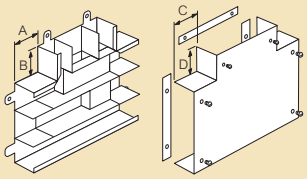


Right hand back entry tee

Separate lids for back entry tees are not required. Use trunking length lids, purchased separately (see p. 172-175)

Flat tee

Body	
A	60
B	60
Lid	
C	58
D	58



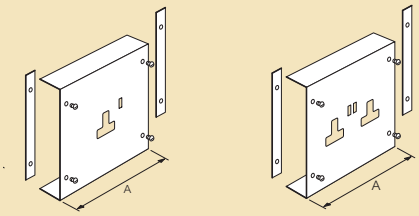
Flat rising tee

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Socket plates

Dimensions (mm) are for chamfer and square

A	190

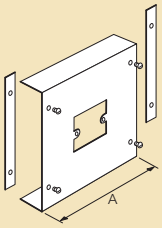


Socket outlet plates

Dimensions (mm) are for chamfer and square

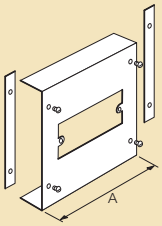
A	190

Single socket piercing



Accessory fixing centres : 60·3 mm

Twin socket piercing



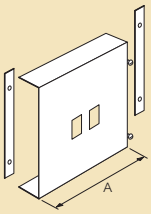
Accessory fixing centres : 120·6 mm

Telecom / data socket plate

Dimensions (mm) are for chamfer and square

Cut-out size is 37 x 22 mm. Other cut-outs are available on request

A	190



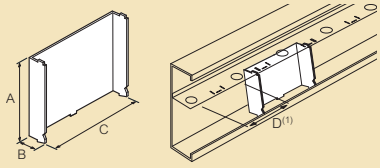
Back box

Dimensions (mm) are for chamfer and square

2 compartment back box

	Trunking size 150 x 50
A	100
B	30
C	139
D[1]	111

[1] D = distance between knockouts

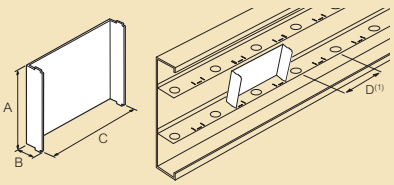


Space behind back box : 20 mm

3 compartment back box

	Trunking size 150 x 50	200 x 50
A	70	100
B	30	30
C	139	139
D[1]	111	111

[1] D = distance between knockouts



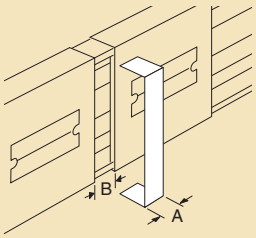
Space behind back box : 20 mm

Socket plate spacer

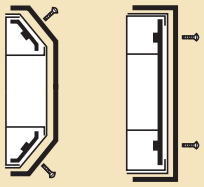
Dimensions (mm) are for chamfer and square

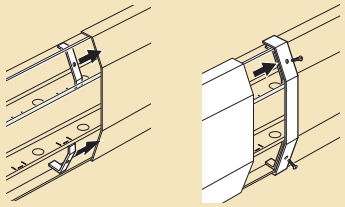
When socket plates are to be fixed next to each other, fit a socket plate spacer between the trunking body and socket plate

A	40
B	24



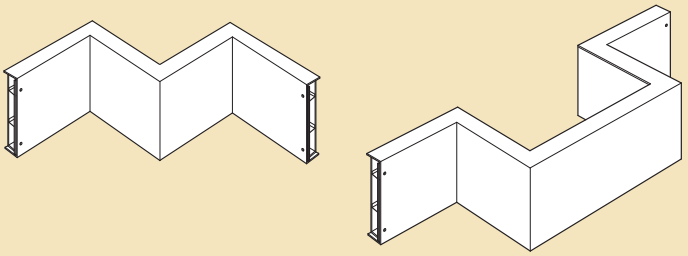
Bridge and strap fixing



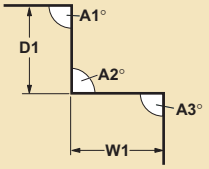


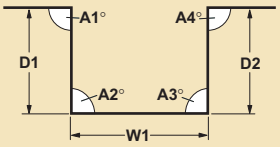
Pier sets

Pier sets can be factory made and supplied to meet customers' specific requirements.
In order to specify a pier set the following measurements are necessary :



Length	Angles
D1	A1
D2	A2
W1	A3
	A4





Pier sets can also be easily fabricated on site using a combination of inside and outside bends and trunking lengths

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

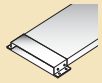


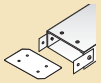
Cable management floor systems

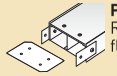
Commercial floor trunking systems


P. 186 Flush floor trunking

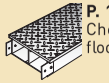

P. 187 Shallow flush floor trunking


P. 188 Underfloor duct


P. 189 Flush lid floor trunking


P. 189 Recessed lid floor trunking

Industrial floor trunking systems


P. 190 Chequer plate floor trunking

Arena-Walsall® power track systems


P. 194 Standard

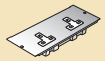

P. 195 Clean earth

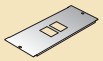

P. 196 Dual circuit


P. 197 Three phase

Floor boxes and grommets


P. 200 Boxes


P. 202 Power sockets and plates


P. 203 Service outlet plates


P. 204 Grommets

New in 2007



3 compartment modular floor box

(p. 200)



3 compartment stand alone RCBO floor box

(p. 200)



RCD modular grommet

(p. 200)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cable management floor systems

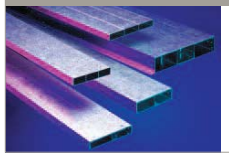
For screeded and access floors, Legrand has all the right cable management solutions to ensure that even the most demanding commercial and industrial requirements can be catered for.






Screeded floor solutions

COMMERCIAL FLOOR TRUNKING



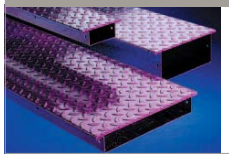
A large choice of flush and in-screed solutions in a variety of sizes... all with a complete selection of accessories.

SERVICE OUTLET BOXES

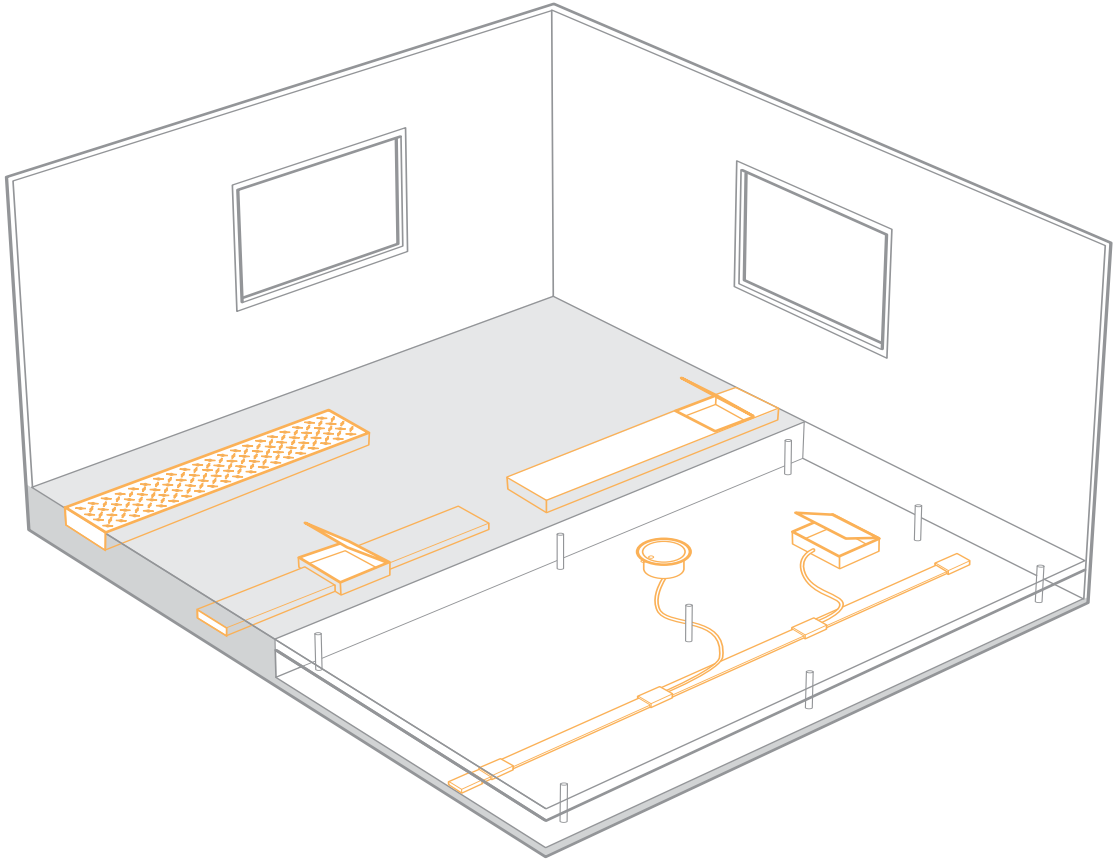


Wide and varied range of service outlet boxes for flush floor trunking and underfloor duct.

INDUSTRIAL FLOOR TRUNKING

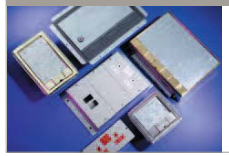


Chequer plate trunking for industrial floors and warehouses that are subjected to heavy loads.



Cavity floor solutions

CAVITY FLOOR BOXES



Discreet, tailor-made solutions for power and data access in any cavity floors.

CAVITY FLOOR GROMMETS



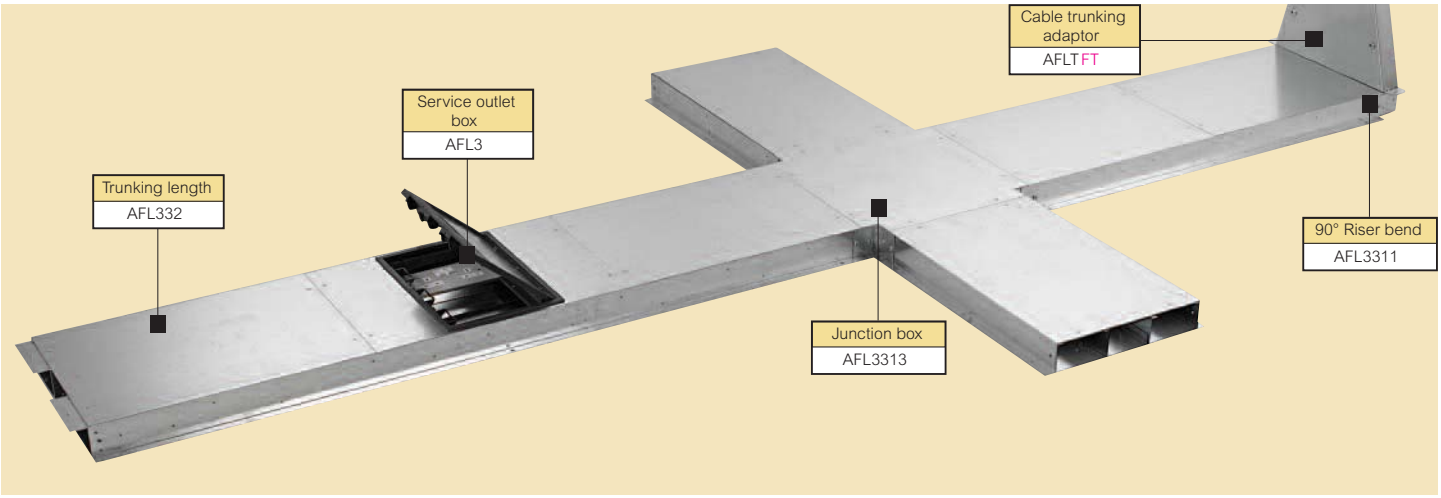
Available in plastic and aluminium versions with a selection of cable outlet styles.

ARENA - WALSALL POWER TRACK



An ultra-compact system available in four different types... standard, clean earth, dual circuit and 3-phase.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

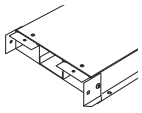


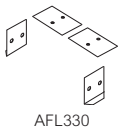
Dimensions and technical information (p. 191-193)

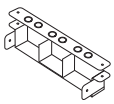
Body and lid manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Standard lengths : trunking 2·0 m, lid 0·5 m
Standard lid thickness : 2·5 mm
Each 2 metre length is fitted with 4 x 500 mm long lids and supplied complete with all necessary connectors and screws
Trunking to floor fixings not supplied
A service outlet box can be fitted at each lid position

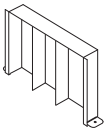
Flush floor trunking

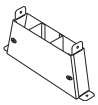
Pack	Cat. Nos.	
		Trunking length – 2 m
1	AFL332	330 x 60 – 3 compartment
1	AFL342	330 x 60 – 4 compartment
		Spare connector set
1	AFL330	3 compartment
1	AFL340	4 compartment
		90° riser bend
		Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	AFL3311	330 x 60 – 3 compartment
1	AFL3411	330 x 60 – 4 compartment
		Back entry skirting adaptor
1	AFLS FS	To complete the Cat. No. specify : F = flush floor trunking size code S = skirting trunking Cat. No. (see p. 170-171) Example : AFLS 342 SK823
		Cable trunking adaptor
		Supplied with turnbuckle fix lid
1	AFLT FT	To complete the Cat. No. specify : F = flush floor trunking size code T = standard cable trunking Cat. No. (see p. 307) Example : AFLT 332 MG623C


AFL332


AFL330


AFL3311

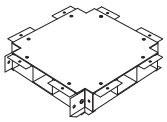

AFLS FS


AFLT FT

Flush floor trunking (continued)

Pack	Cat. Nos.	
		End stop
1	AFL3312	330 x 60
		Junction box
		Supplied with connections and plates To be configured as a fourway, tee, bend or straight through connector box
1	AFL3313	330 x 60 – 3 compartment
1	AFL3413	330 x 60 – 4 compartment


AFL3312


AFL3313

Service outlet boxes

Service outlet boxes are supplied fitted into a 500 mm long cover and contain one 13 A twin switched socket (side wired) and plate as standard

Additional sockets and plates should be ordered separately (see p. 202-203)

Moulded trim and lid

Moulded carpet trim made from ABS/polycarbonate colour Grey to BS 4800-18B25

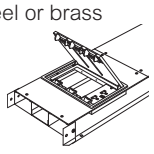
1	AFL 3	3 compartment
1	AFL 4	4 compartment

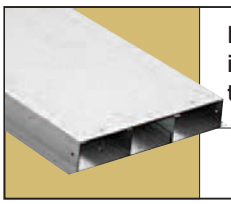
Steel trim and lid

Steel carpet trim powder coated to BS 4800-18B25

Different coloured steel trims are available to special order
Trims are also available in stainless steel or brass and as edge trims (see below)

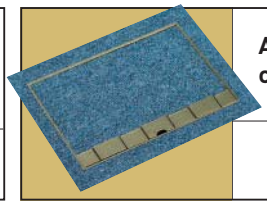
1	AFL 3 MT	3 compartment
1	AFL 4 MT	4 compartment


AFL 3 MT



Flush floor trunking can be supplied in different depths above 60 mm to special order

Contact us on 0845 605 4333

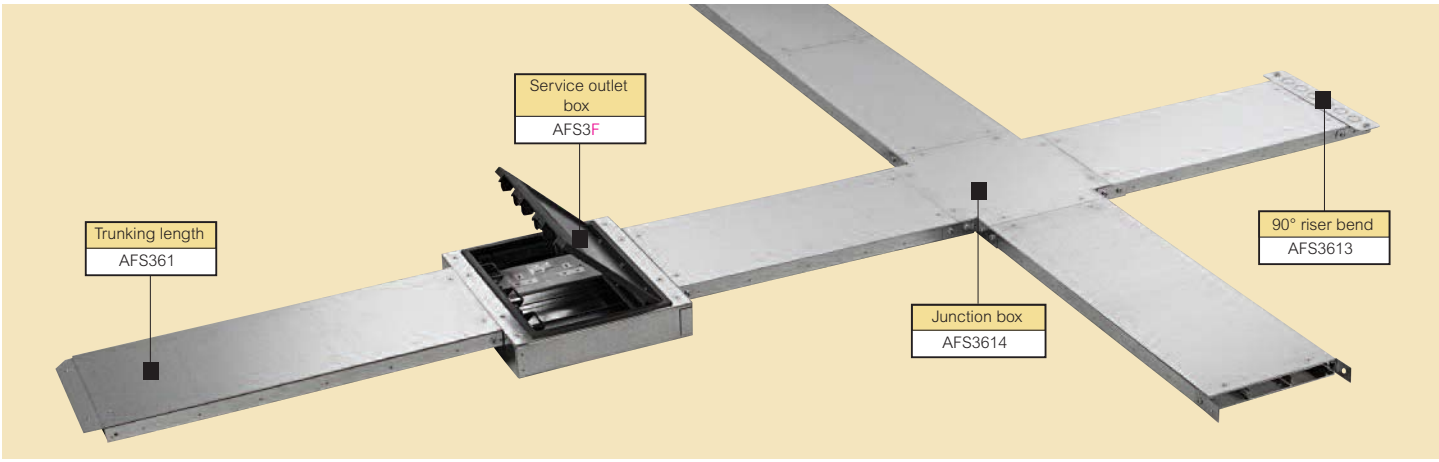


All steel trims for service outlet boxes can be manufactured as edge trims

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

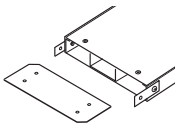
commercial floor trunking systems
shallow flush floor trunking



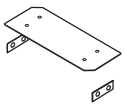
Dimensions and technical information (p. 191-193)

Body and lid manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Standard lengths : trunking 2·0 m, lid 0·5 m
Standard lid thickness : 2·5 mm
Each 2 metre length is fitted with 4 x 500 mm long lids and supplied complete with all necessary connectors and screws

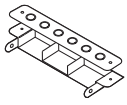
Pack	Cat. Nos.	Shallow flush floor trunking
		Trunking length – 2 m
1	AFS261	150 x 25 – 2 compartment
1	AFS265	150 x 38 – 2 compartment
1	AFS361	150 x 25 – 3 compartment
1	AFS365	150 x 38 – 3 compartment
1	AFS395	225 x 38 – 3 compartment


AFS361

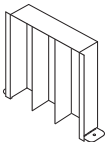
		Spare connector set
1	AFS3611	150 wide
1	AFS3911	225 wide


AFS3611

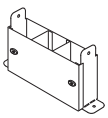
		90° riser bend
		Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	AFS2613	150 x 25 – 2 compartment
1	AFS2653	150 x 38 – 2 compartment
1	AFS3613	150 x 25 – 3 compartment
1	AFS3653	150 x 38 – 3 compartment
1	AFS3953	225 x 38 – 3 compartment

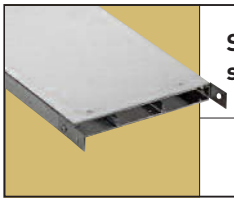

AFS3613

		Back entry skirting adaptor
1	AFSS F S	To complete the Cat. No. specify : F = shallow flush floor trunking size code S = skirting trunking Cat. No. (see p. 170-171) Example : AFSS 361 SK623


AFSS F S

		Cable trunking adaptor
1	AFST F T	Supplied with turnbuckle fix lid To complete the Cat. No. specify : F = shallow flush floor trunking size code T = standard cable trunking Cat. No. (see p. 307) Example : AFST 361 MG623C

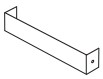

AFST F T



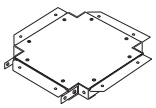
Shallow flush floor trunking can be supplied in different depths to special order

Contact us on 0845 605 4333

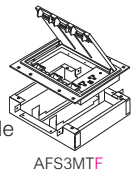
Pack	Cat. Nos.	Shallow flush floor trunking (continued)
		End stop
1	AFS2615	150 x 25
1	AFS2655	150 x 38
1	AFS3955	225 x 38


AFS2665

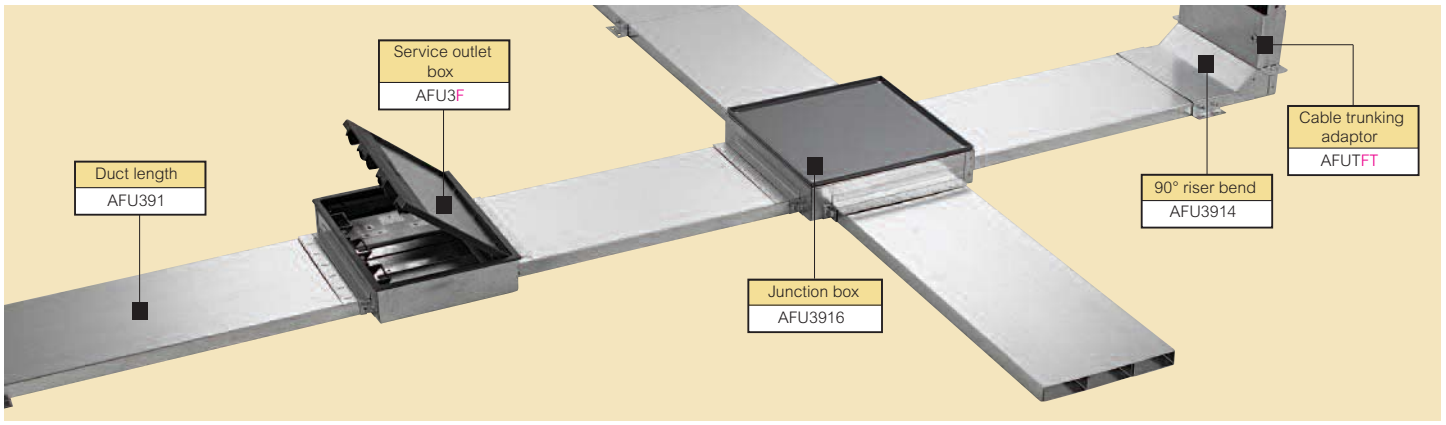
		Junction box
		Supplied with connectors and plates
		To be configured as a fourway, tee, bend or straight through connector box
1	AFS2614	150 x 25 – 2 compartment
1	AFS2654	150 x 38 – 2 compartment
1	AFS3614	150 x 25 – 3 compartment
1	AFS3654	150 x 38 – 3 compartment
1	AFS3954	225 x 38 – 3 compartment


AFS2614

		Service outlet boxes
		Service outlet boxes contain one 13 A twin switched socket (side wired) and plate as standard
		Additional sockets and plates should be ordered separately (see p. 202-203)
		Use a 4 compartment service outlet box with a 2 compartment trunking
		Moulded trim and lid
		Moulded carpet trim made from ABS/polycarbonate colour Grey to BS 4800-18B25
1	AFS 3 F	3 compartment
1	AFS 4 F	4 compartment
		To complete the Cat. No. specify : F = shallow flush floor trunking size code Example : AFS4 AFS265
		Steel trim and lid
		Steel carpet trim powder coated to BS 4800-18B25 Different coloured steel trims are available to special order Trims are also available in stainless steel or brass and as edge trims (contact details opposite)
1	AFS3MTF	3 compartment
1	AFS4MTF	4 compartment
		To complete the Cat. No. specify : F = shallow flush floor trunking size code Example : AFS3MT AFS361


AFS3MTF

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

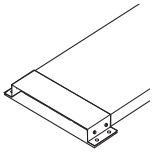


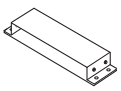
Dimensions and technical information (p. 191-193)

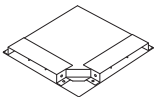
Body and lid manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Standard length : 2·0 m. Standard lid thickness : 1·0 mm
Each 2 metre length is supplied with 2 saddle clamps and screws
Duct to floor fixings are not supplied

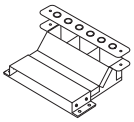
Underfloor duct

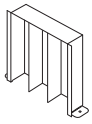
Pack	Cat. Nos. (2 comp)	Cat. Nos. (3 comp)	
			Duct length – 2 m
1	AFU261		150 x 25
1	AFU265		150 x 38
1		AFU391	225 x 25
1		AFU395	225 x 38
1		AFU311	300 x 25
1		AFU315	300 x 38
			Spare saddle clamp
1	AFU2612		150 x 25
1	AFU2652		150 x 38
1	AFU3912		225 x 25
1	AFU3952		225 x 38
1	AFU3112		300 x 25
1	AFU3152		300 x 38
			90° flat bend
			Supplied with screeding cover
1	AFU2613		150 x 25
1	AFU2653		150 x 38
1		AFU3913	225 x 25
1		AFU3953	225 x 38
1		AFU3113	300 x 25
1		AFU3153	300 x 38
			90° riser bend
			Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	AFU2614		150 x 25
1	AFU2654		150 x 38
1		AFU3914	225 x 25
1		AFU3954	225 x 38
1		AFU3114	300 x 25
1		AFU3154	300 x 38
			Back entry skirting adaptor
1	AFUSFS		To complete the Cat. No. specify : F = underfloor duct size code S = skirting trunking Cat. No. (see p. 170-171) Example : AFUS 391 SK623

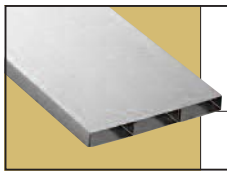

AFU391


AFU3912


AFU3913


AFU3914


AFUSFS

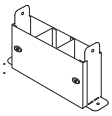


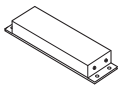
Underfloor duct can be supplied in other depths and compartment configurations to special order

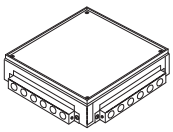
Contact us on 0845 605 4333

Underfloor duct (continued)

Pack	Cat. Nos.	
		Cable trunking adaptor
1	AFUTFT	Supplied with turnbuckle fix lid To complete the Cat. No. specify : F = underfloor duct size code T = standard cable trunking Cat. No. (see p. 307) Example : AFUT 395 MG623C
		End stop
1	AFU2615	150 x 25
1	AFU2655	150 x 38
1	AFU3915	225 x 25
1	AFU3955	225 x 38
1	AFU3115	300 x 25
1	AFU3155	300 x 38
		Junction box
		To be configured as a fourway, tee, bend or straight through connector box Can also be conduit fed
1	AFU2616	150 x 25
1	AFU2656	150 x 38
1	AFU3916	225 x 25
1	AFU3956	225 x 38
1	AFU3116	300 x 25
1	AFU3156	300 x 38


AFUTFT


AFU3915


AFU3916

In-screed service outlet boxes

Can also be conduit fed. Service outlet boxes contain one 13 A twin switched socket (side wired) and plate as standard

Additional sockets and plates should be ordered separately (see p. 202-203)

Use a 4 compartment service outlet box with 2 compartment duct

Moulded trim and lid

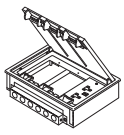
Moulded carpet trim made from ABS/polycarbonate colour Grey to BS 4800-18B25

1	AFU3F	3 compartment
1	AFU4F	4 compartment
		To complete the Cat. No. specify : F = underfloor duct Cat. No. Example : AFU3 AFU311

Steel trim and lid

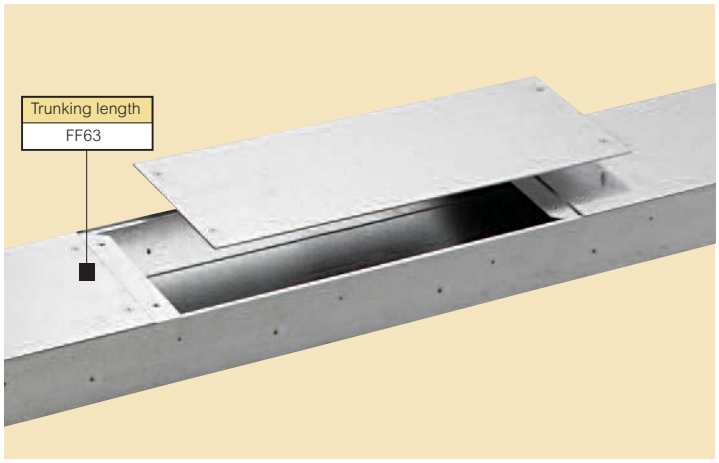
Steel carpet trim powder coated to BS 4800-18B25. Different coloured steel trims are available to special order
Trims are also available in stainless steel or brass and as edge trims (see p. 186) (contact details opposite)

1	AFU3MTF	2 compartment
1	AFU4MTF	3 compartment
		To complete the Cat. No. specify : F = underfloor duct Cat. No. Example : AFU4MT AFU265


AFU3MTF

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

commercial floor trunking systems
flush lid floor trunking

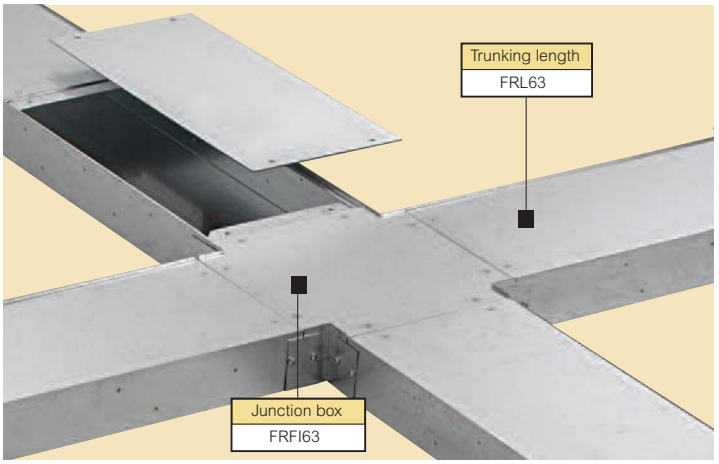


Dimensions and technical information (p. 191-193)

Body and lid manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Standard length : 2·0 m ; standard lid thickness : 2·5 mm
Supplied complete with all necessary connectors and screws
Internal dividers are fitted on all trunking lengths 225 and above to provide lid support
Service outlet boxes are not available for this range

Pack	Cat. Nos.	Flush lid floor trunking
		Trunking length – 2 m
1	FF42	100 x 50
1	FF63	150 x 75
1	FF124	300 x 100
		90° riser bend
		Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	FFRB42	100 x 50
1	FFRB63	150 x 75
1	FFRB124	300 x 100
		End stop
1	FFEB42	100 x 50
1	FFEB63	150 x 75
1	FFEB124	300 x 100
		Junction box
		Supplied with connectors and plates To be configured as a fourway, tee, bend or straight through connector box
1	FFI42	100 x 50
1	FFI63	150 x 75
1	FFI124	300 x 100

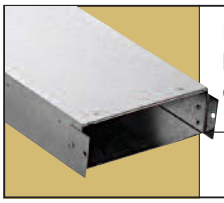
commercial floor trunking systems
recessed lid floor trunking



Dimensions and technical information (p. 191-193)

Body and lid manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Standard length : 2·0 m ; standard lid thickness : 2·5 mm
Lid recess : 3·5 mm
Supplied complete with all necessary connectors and screws
Internal dividers are fitted on all trunking lengths 225 and above to provide lid support
Service outlet boxes are not available for this range

Pack	Cat. Nos.	Recessed lid floor trunking
		Trunking length – 2 m
1	FRL42	100 x 50
1	FRL63	150 x 75
1	FRL124	300 x 100
		90° riser bend
		Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	FRLRB42	100 x 50
1	FRLRB63	150 x 75
1	FRLRB124	300 x 100
		End stop
1	FRLEB42	100 x 50
1	FRLEB63	150 x 75
1	FRLEB124	300 x 100
		Junction box
		Supplied with connectors and plates To be configured as a fourway, tee, bend or straight through connector box
1	FRLI42	100 x 50
1	FRLI63	150 x 75
1	FRLI124	300 x 100

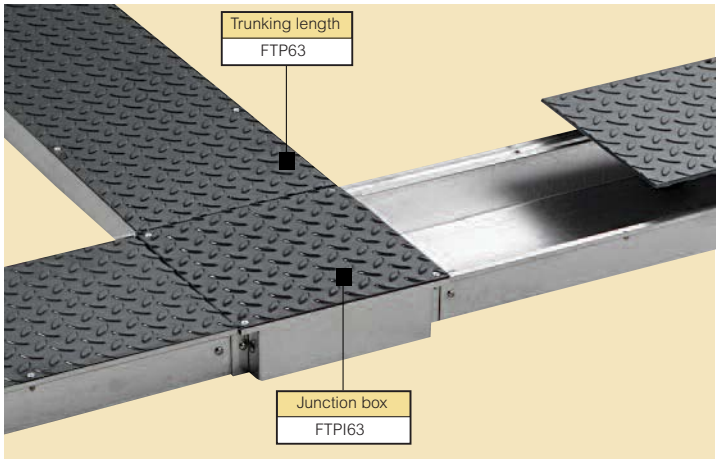


Flush lid and recessed lid floor trunking can be supplied in other widths, depths and compartment configurations to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

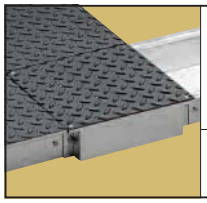
industrial floor trunking systems
chequer plate floor trunking



Dimensions (opposite)

Body manufactured from pre-galvanised sheet steel to BS EN 10142 and 3
Lid manufactured from mild steel, powder coated grey 18B25
Other colours available to special order
Standard lengths : body 2·0 m, lid 1·0 m
Standard lid thickness : 6·5 mm
Chequer plate floor trunking is available in single compartment as standard complete with lid, all necessary connectors and screws
Internal dividers are fitted on all trunking lengths 225 and above to provide lid support
Service outlet boxes are not available for this range

Pack	Cat. Nos.	Chequer plate floor trunking
		Trunking length – 2 m
1	FTP42	100 x 50
1	FTP63	150 x 75
1	FTP124	300 x 100
		90° riser bend
		Supplied with screeding cover Provides conduit entry with 20 mm knockouts
1	FTPRB42	100 x 50
1	FTPRB63	150 x 75
1	FTPRB124	300 x 100
		End stop
1	FTPEB42	100 x 50
1	FTPEB63	150 x 75
1	FTPEB124	300 x 100
		Junction box
		Supplied with connectors and plates To be configured as a fourway, tee, bend or straight through connector box
1	FTPI42	100 x 50
1	FTPI63	150 x 75
1	FTPI124	300 x 100



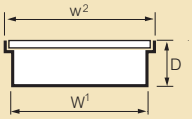
Chequer plate floor trunking can be supplied in other widths, depths and compartment configurations to special order

Contact us on 0845 605 4333

industrial floor trunking systems
dimensions

■ Chequer plate floor trunking

All dimensions (mm) are nominal

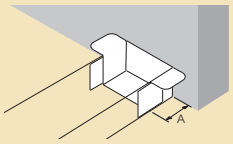


W¹ = Overall trunking width
D = Overall trunking depth
w² = Overall width including trunking lid

	W	D	w
FTP42	100	50	150
FTP63	150	75	200
FTP124	300	100	350

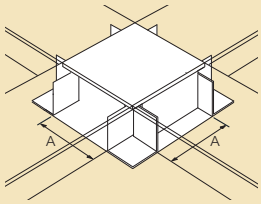
90° riser bends

Duct depth	A
50	50
75	75
100	100



Junction box

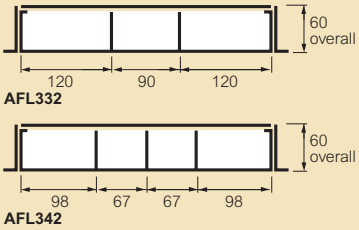
Trunking width	A
75	122
100	147
150	197
225	272
300	347



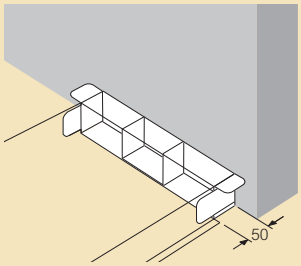
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Flush floor trunking

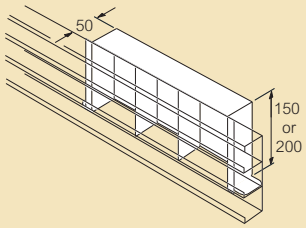
All dimensions (mm) are nominal



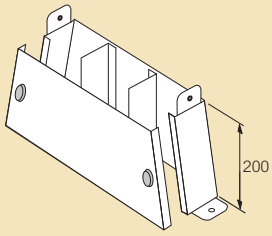
90° riser bends



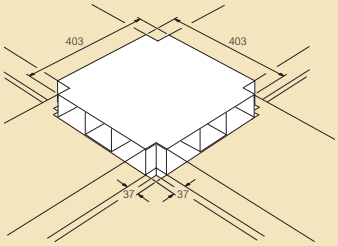
Back entry skirting adaptor



Cable trunking adaptors



Junction box



Service outlet boxes



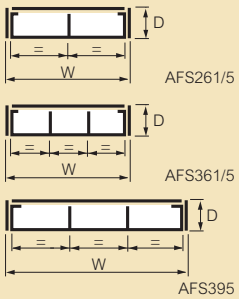
Reduced cabling area when fitting service outlet box

■ Shallow flush floor trunking

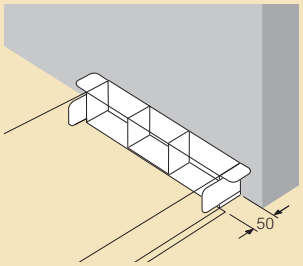
All dimensions (mm) are nominal

	W	D
AFS261	153	25
AFS265	153	38
AFS361	153	25
AFS365	153	38
AFS395	228	38

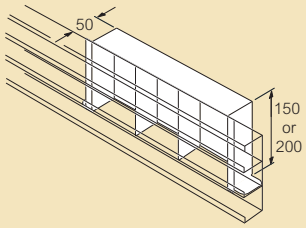
W = Overall trunking width
D = Overall trunking depth



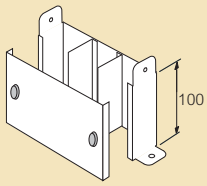
90° riser bends



Back entry skirting adaptor



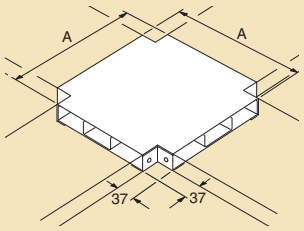
Cable trunking adaptors



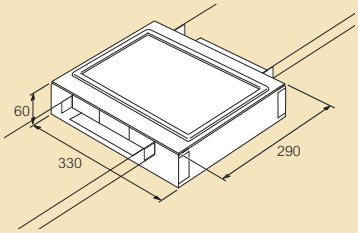
Junction box

Trunking width	A
150	223
225	298

A = Trunking end to end



Service outlet boxes



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

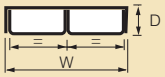
■ Underfloor duct

All dimensions (mm) are nominal

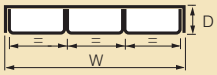
	W	D
AFU261	150	25
AFU265	150	38
AFU391	225	25
AFU395	225	38
AFU311	300	25
AFU315	300	38

W = Overall ducting width
D = Overall ducting depth

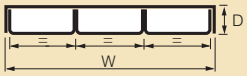
AFU261/5



AFU391/5

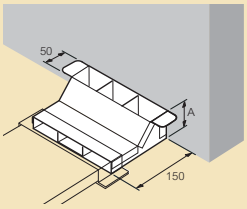


AFU311/5

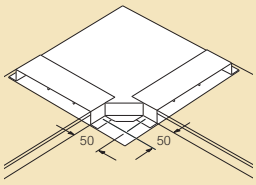


90° riser bends

Duct depth	A
25	60
38	75

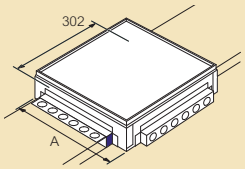


90° flat bends

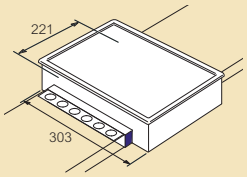


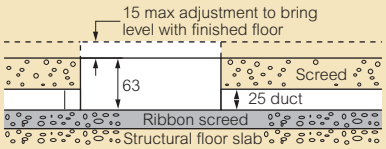
Junction box

Junction box trunking width	A
150/225	302
300	379

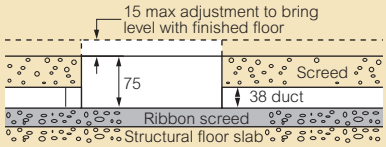


Service outlet box





Using a 25 mm deep duct, junction boxes and service outlet boxes provide conduit entry with 20 mm knockouts only, and are adjustable from 63 to 78 mm deep



Using a 38 mm deep duct, junction boxes and service outlet boxes provide conduit entry with 20/25 mm combination knockouts and are adjustable from 75 to 90 mm deep

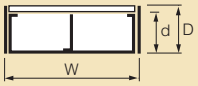
■ Flush lid and recessed lid floor trunking

All dimensions (mm) are nominal

Flush lid

	W	D	d
FRL42	102·5	50	47·5
FRL63	152·5	75	72·5
FRL124	302·5	100	97·5

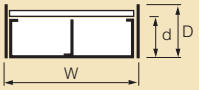
W = Overall trunking width
d = Depth to underside of trunking lid
D = Overall trunking depth



Recessed lid

	W	D	d
FRL42	102·5	50	44
FRL63	152·5	75	69
FRL124	302·5	100	94

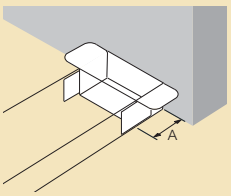
W = Overall trunking width
d = Depth to underside of trunking lid
D = Overall trunking depth



90° riser bends

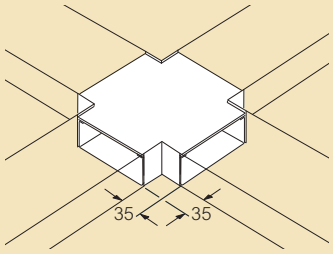
For flush lid and recessed lid floor trunking

Duct depth	A
50	50
75	75
100	100



Junction box

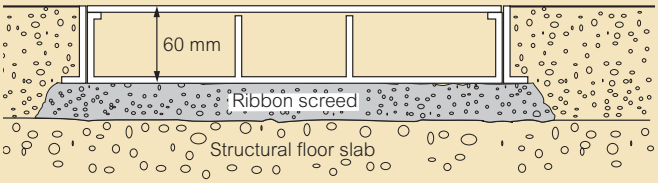
For flush lid and recessed lid floor trunking



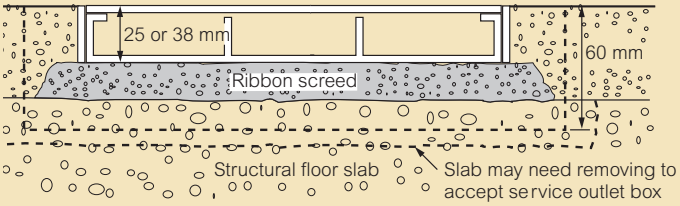
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Installation details

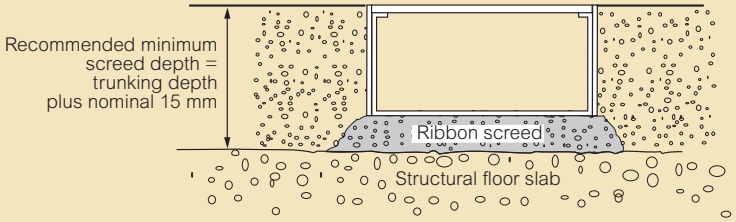
Flush floor trunking in screeded floor



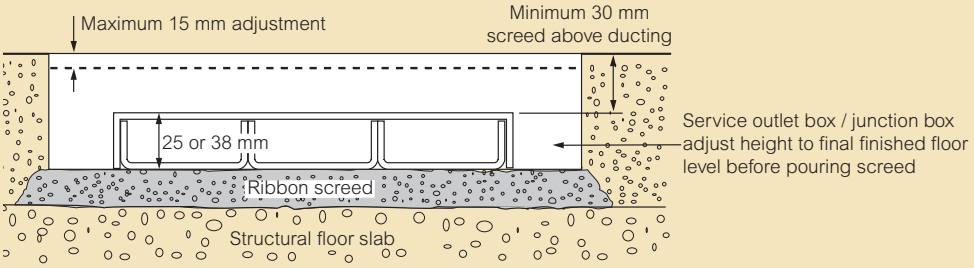
Shallow flush floor trunking in screeded floor



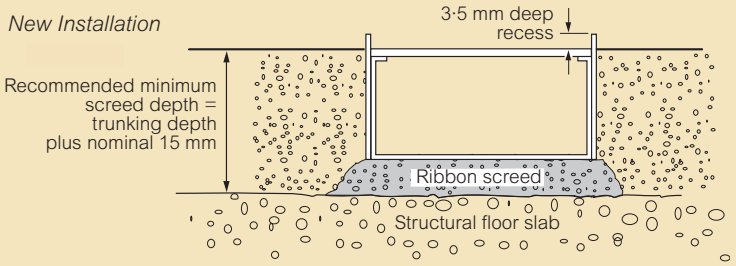
Flush lid floor trunking in screeded floor



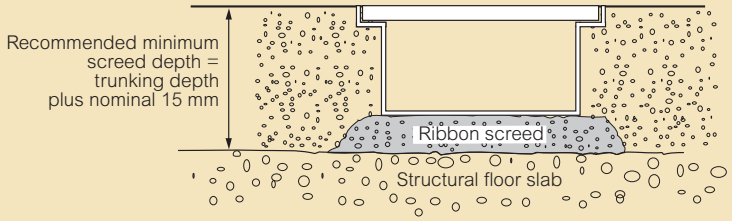
Underfloor duct in screeded floor



Recessed lid floor trunking in screeded floor

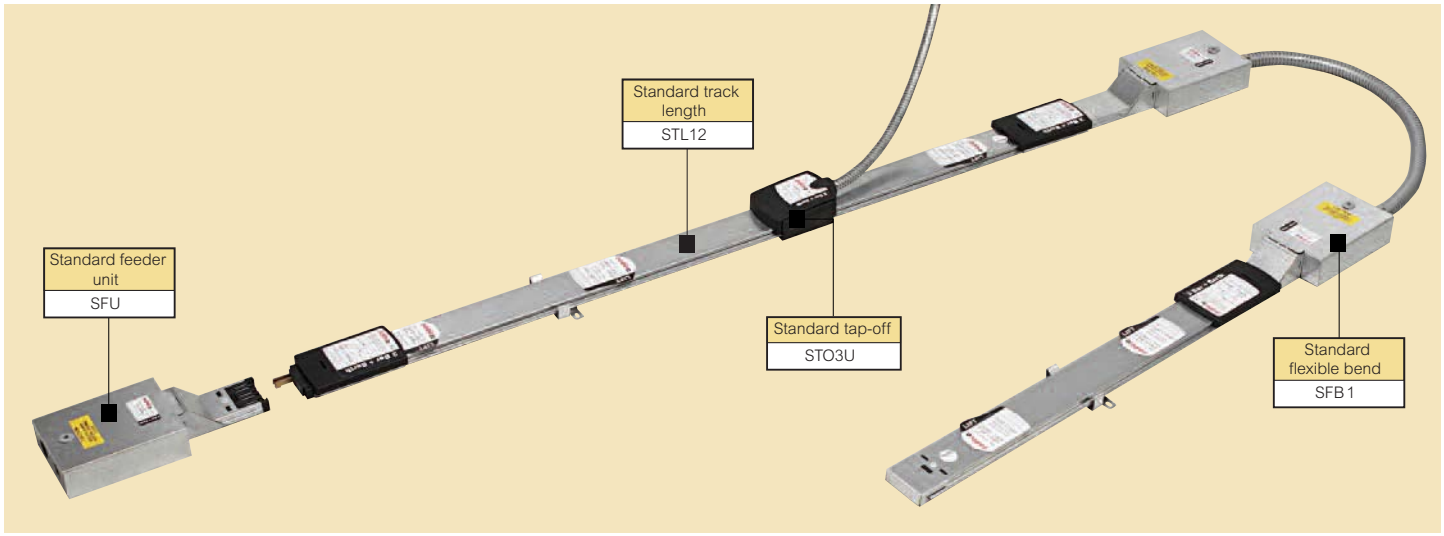


Chequer plate floor trunking in screeded floor



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

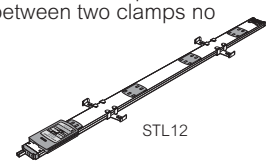
Arena-Walsall® power track system
standard

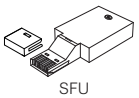


Dimensions and technical information (p. 198-199)

Two bar and earth 63 A power track system

Pack	Cat. Nos.	Track lengths and feeder unit
		Standard track lengths
		Supplied complete with hold down clamps Recommended spacing between two clamps no greater than one metre
1	STL12	1·2 metres, 4 tap-offs
1	STL18	1·8 metres, 6 tap-offs
1	STL24	2·4 metres, 8 tap-offs
1	STL30	3·0 metres, 10 tap-offs
1	STL36	3·6 metres, 12 tap-offs
		Standard feeder unit
		Supplied with one end cap to be fitted to track end
1	SFU	2 x 20/25 mm knockout entries Terminal capacity 16 mm² maximum

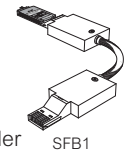

STL12

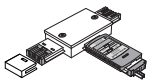

SFU

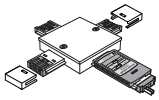
Pack	Cat. Nos.	Standard tap-offs
		All tap-offs conform to Section 607 of BS 7671 : 2001 Supplied with new cable colours to BS 7671 : 2001 amendment No. 2 'fixed wiring' These tap-offs can also be used with the dual circuit power track
1	STO3U	3 metres, unfused
1	STO3F	3 metres, fused
1	STO5F	5 metres, fused


STO3F

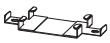
Pack	Cat. Nos.	Flexible bends and tee units
		Standard flexible bend
1	SFB1	Comprises a length of 25 mm conduit with a plug-in feed at each end, pre-wired with 10 mm² tri-rated cable Cable length = 1 metre Other lengths are available to special order Can be used as a bend or an offset
		Standard tee units
		Supplied with slider and one end cap
1	STUA	Left feed
1	STUB	Centre feed
1	STUC	Right feed
		Standard four way
1	SFW	Supplied complete with slider and two end caps

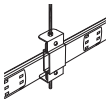

SFB1

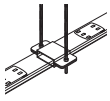

STUB


SFW

Pack	Cat. Nos.	Accessories
1	SHC	**Spare hold down clamp**
		Hanger brackets
1	SVB	Vertical hanger bracket
1	SHB	Horizontal hanger bracket
1	SEC	**Spare end cap**


SHC


SVB

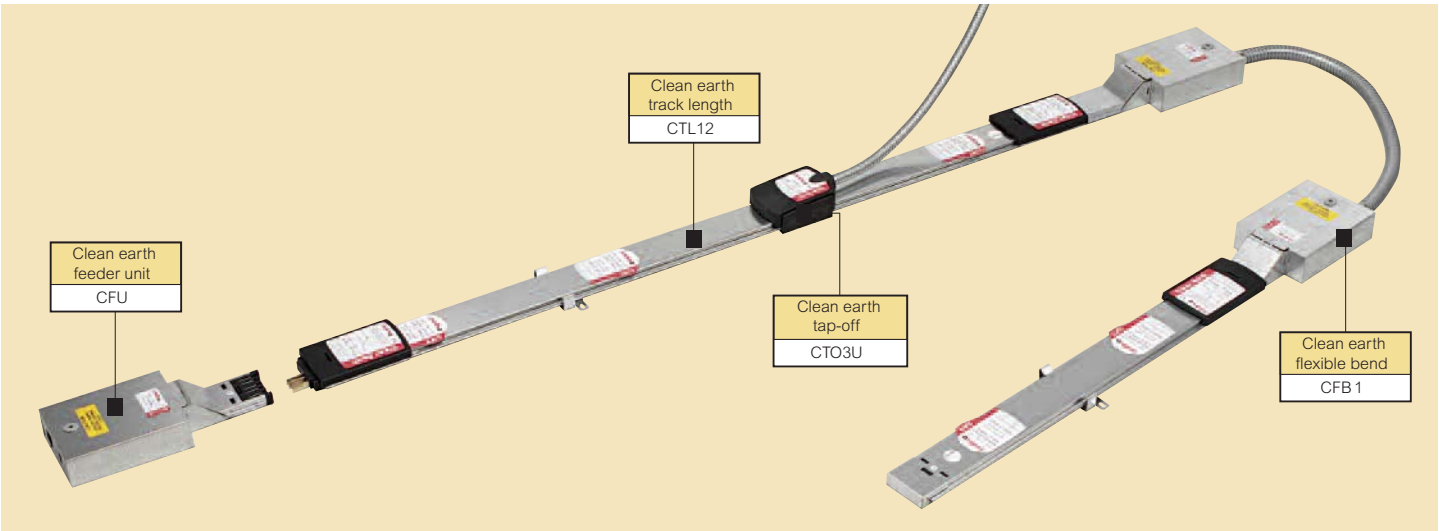

SHB


SEC

Standard power track is denoted by a white label with a black flash

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

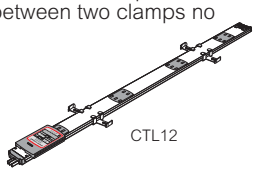
Arena-Walsall® power track system
clean earth



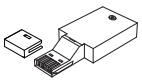
Dimensions and technical information (p. 198-199)

Three bar and earth 63 A power track system including an independant clean earth copper bar

Pack	Cat. Nos.	Track lengths and feeder unit
		Clean earth track lengths
		Supplied complete with hold down clamps Recommended spacing between two clamps no greater than one metre
1	CTL12	1·2 metres, 4 tap-offs
1	CTL18	1·8 metres, 6 tap-offs
1	CTL24	2·4 metres, 8 tap-offs
1	CTL30	3·0 metres, 10 tap-offs
1	CTL36	3·6 metres, 12 tap-offs


CTL12

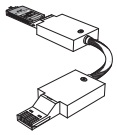
		Clean earth feeder unit
		Supplied with one end cap to be fitted to track end
1	CFU	2 x 20/25 mm knockout entries Terminal capacity 16 mm² maximum


CFU

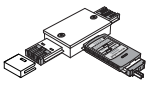
		Clean earth tap-offs
		All tap-offs conform to Section 607 of BS7671 : 2001 Supplied with new cable colours to BS 7671 : 2001 amendment No. 2 'fixed wiring' These tap-offs can also be used with the dual circuit power track
1	CTO3U	3 metres, unfused
1	CTO3F	3 metres, fused
1	CTO5F	5 metres, fused


CTO3U

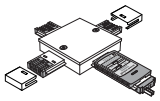
Pack	Cat. Nos.	Flexible bends and tee units
		Clean earth flexible bend
1	CFB1	Comprises a length of 25 mm conduit with a plug-in feed at each end, pre-wired with 10 mm² tri-rated cable Cable length = 1 metre Other lengths are available to special order Can be used as a bend or an offset


CFB1

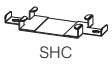
		Clean earth tee units
		Supplied with slider and one end cap
1	CTU A	Left feed
1	CTU B	Centre feed
1	CTU C	Right feed


CTU B

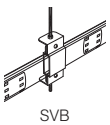
		Clean earth four way
1	CFW	Supplied with slider and two end caps

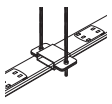

CFW

		Accessories
1	SHC	**Spare hold down clamp**


SHC

		Hanger brackets
1	SVB	Vertical hanger bracket
1	SHB	Horizontal hanger bracket


SVB


SHB

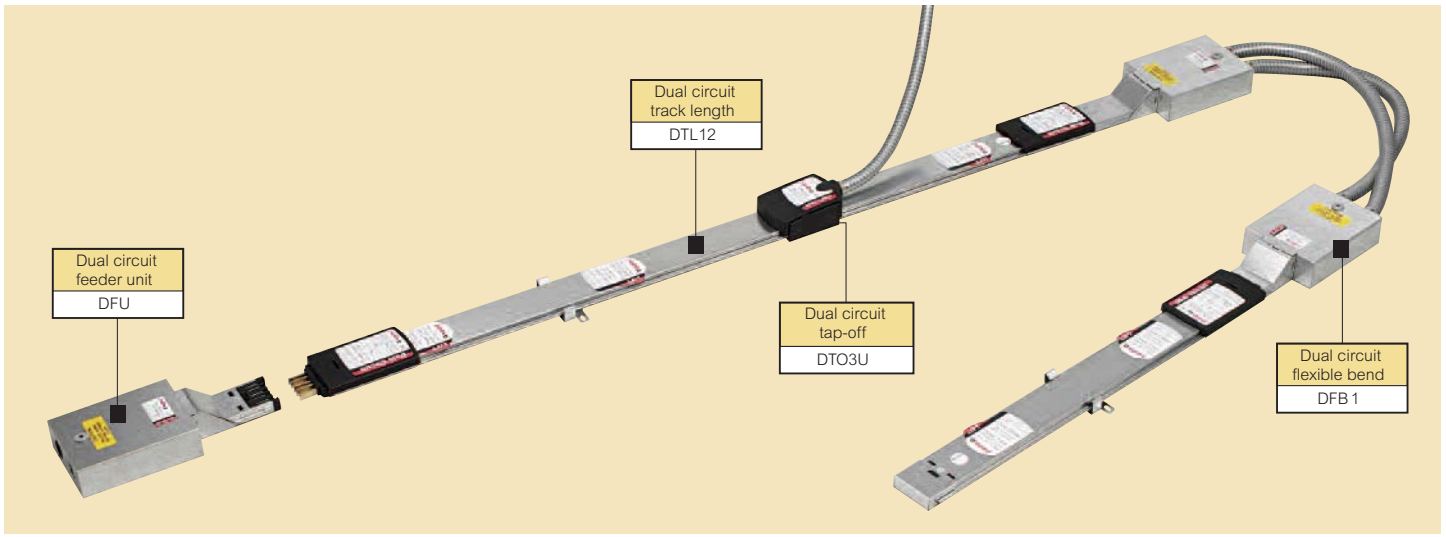
1	SEC	**Spare end cap**


SEC

Clean earth power track is denoted by a white label with a red flash

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

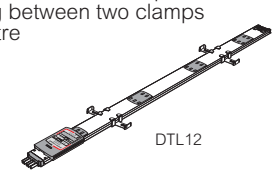
Arena-Walsall® power track system
dual circuit



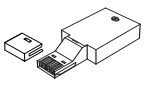
Dimensions and technical information (p. 198-199)

Five bar and earth 50 A power track system incorporating both standard and clean earth systems within one enclosure

Pack	Cat. Nos.	Track lengths and feeder unit
		Dual circuit track lengths
		Supplied complete with hold down clamps Recommended spacing between two clamps no greater than one metre
1	DTL12	1·2 metres, 4 tap-offs
1	DTL18	1·8 metres, 6 tap-offs
1	DTL24	2·4 metres, 8 tap-offs
1	DTL30	3·0 metres, 10 tap-offs
1	DTL36	3·6 metres, 12 tap-offs


DTL12

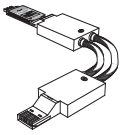
		Dual circuit feeder unit
		Supplied with one end cap to be fitted to track end
1	DFU	2 x 20/25 mm knockout entries Terminal capacity 16 mm² maximum


DFU

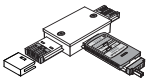
		Dual circuit tap-offs
		All tap-offs conform to Section 607 of BS 7671 : 2001 Supplied with new cable colours to BS 7671 : 2001 amendment No. 2 'fixed wiring' These tap-offs must only be used with the dual circuit power track All tap-offs from standard and clean earth track can also be used
1	DTO3U	3 metres, unfused
1	DTO3F	3 metres, fused
1	DTO5F	5 metres, fused


DT03U

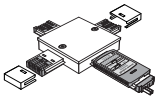
Pack	Cat. Nos.	Flexible bends and tee units
		Dual circuit flexible bend
1	DFB1	Comprises a length of 25 mm conduit with a plug-in feed at each end, pre-wired with 10 mm² tri-rated cable Cable length = 1 metre Other lengths are available to special order Can be used as a bend or an offset


DFB1

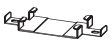
		Dual circuit tee units
		Supplied with slider and one end cap
1	DTU A	Left feed
1	DTU B	Centre feed
1	DTU C	Right feed


DTU B

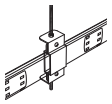
		Dual circuit four way
1	DFW	Supplied with slider and two end caps

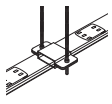

DFW

		Accessories
1	SHC	**Spare hold down clamp**


SHC

		Hanger brackets
1	SVB	Vertical hanger bracket
1	SHB	Horizontal hanger bracket


SVB


SHB

1	SEC	**Spare end cap**


SEC

Dual circuit power track is denoted by a white label with a black and red flash

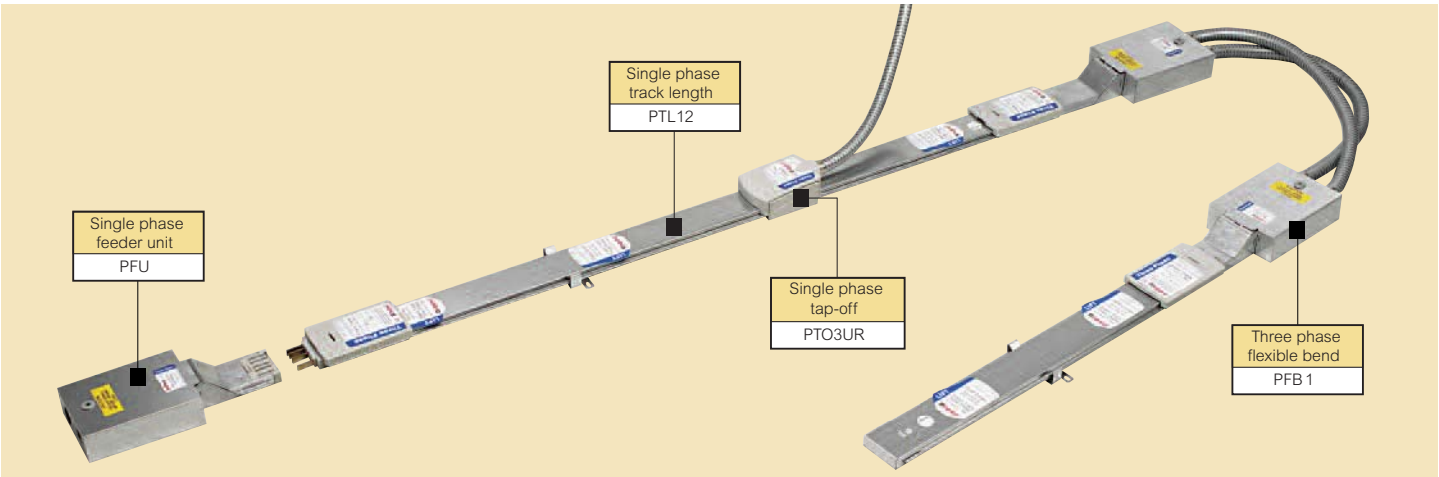


For pre-wired floor boxes and grommets, see p. 200, 204

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

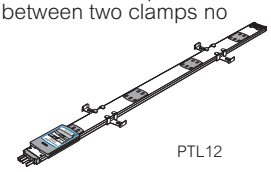
Arena-Walsall® power track system
three phase



Dimensions and technical information (see p. 198-199)

Four bar and earth 50 A power track system. Three phased bars, one neutral bar and earth

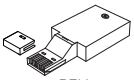
Pack	Cat. Nos.	Track lengths and feeder unit
		Three phase track lengths
		Supplied complete with hold down clamps Recommended spacing between two clamps no greater than one metre
1	PTL12	1·2 metres, 4 tap-offs
1	PTL18	1·8 metres, 6 tap-offs
1	PTL24	2·4 metres, 8 tap-offs
1	PTL30	3·0 metres, 10 tap-offs
1	PTL36	3·6 metres, 12 tap-offs


PTL12

Three phase feeder unit

Supplied with one end cap to be fitted to track end

1	PFU	2 x 20/25mm knockout entries Terminal capacity 16 mm² maximum


PFU

		Tap-offs for three phase power track
		Single phase tap-offs
		All tap-offs conform to Section 607 of BS 7671 : 2001 Supplied with new cable colours to BS 7671 : 2001 amendment No.2 'fixed wiring' These tap-offs must only be used with the 3 phase power track
1	PTO3UR	3 metres, unfused reconfigurable
1	PTO3FR	3 metres, fused reconfigurable
1	PTO5FR	5 metres, fused reconfigurable


PTO3FR

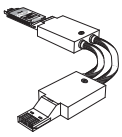
Three phase tap-off

All tap-offs conform to Section 607 of BS7671 : 2001
Supplied with new cable colours to BS 7671 : 2001 amendment No. 2 'fixed wiring'
This tap-off must only be used with the 3 phase power track

1	PTO3U	3 metres, unfused (L1, L2 and L3 connected)


PTO3U

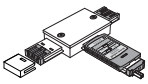
Pack	Cat. Nos.	Flexible bends and tee units
		Three phase flexible bend
1	PFB1	Comprises a length of 25 mm conduit with a plug-in feed at each end, pre-wired with 10 mm² tri-rated cable Cable length = 1 metre Other lengths are available to special order Can be used as a bend or an offset


SFB1

Three phase tee units

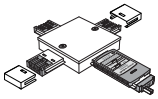
Supplied with slider and one end cap

1	PTU A	Left feed
1	PTU B	Centre feed
1	PTU C	Right feed

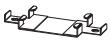

PTU B

Three phase four way

1	PFW	Supplied with slider and two end caps

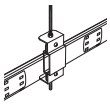

SFW

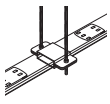
		Accessories
1	SHC	**Spare hold down clamp**


SHC

Hanger brackets

1	SVB	Vertical hanger bracket
1	SHB	Horizontal hanger bracket

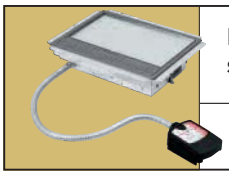

SVB


SHB

1	SEC	**Spare end cap**


SEC

Three phase power track is denoted by a white label with a blue flash



For pre-wired floor boxes and grommets, see p. 200, 204

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Specification / technical data

Electrical data	
Rated current	63 A/50 A
Rated voltage	250 V/415 V
Frequency	50/60 Hz
Rated short circuit withstand	16 kA
Track conductor resistance - line and neutral	3 mΩ/m
Track conductor impedance	1·43 mΩ/m

Volt drops	
Line and neutral : track	2·86 mV/A/m
Tap-off (32 A - 4 mm² cable)	10 mV/A/m
Flexible bend (10 mm² tri-rated cable)	3·7 mV/A/m
Feed unit	0·3 mV/A/m
Track connector	0·4 mV/A/m

Earth fault loop	
Impedance : L+N track conductors	1·5 mΩ/m
Earth track conductor	1·2 mΩ/m
Tap-off (32 A - 4 mm² cable)	33 mΩ (3 metre L/N/E)
Feed unit	0·3 mΩ
Track connector	0·4 mΩ
Flexible bend (10 mm² tri-rated cable)	3·7 mΩ (1 metre L/N/E)

Mechanical data	
Number of conductors	PE + 2,3,4 and 5
Track conductor cross section area	13 mm²
Incoming cable termination capacity	16 mm²
Tap-off cable 32 A unfused	4 mm²
Tap-off cable 13 A fused	L/N : 2·5 mm², E : 4 mm²
Tap-off conduit	16 mm/20 mm diameter
Feeder conduit entry	20 mm/25 mm diameter
IP rating	IP 40 (when fully assembled)
Maximum profile height	47 mm including tap-off
Track height	17 mm

Material specification	
Track housing	Galvanised steel
Track conductors	High conductivity copper
Track insulator	Self extinguishing PVC extrusion
Sockets, track connectors, track ends	Nylon
Tap-off plugs	Nylon
End shutters and track shutters	Glass filled nylon
Tap-off / flexible bend cable	LSF/PVC
Tap-off / feeder and connector pins	Brass

■ Technical information

Certification

Asta Certified and tested to BS EN 60439-1 : 1999 and BS EN 60439-2 : 2000
Manufactured within a ASTA BEAB approved ISO 9001:2000 facility

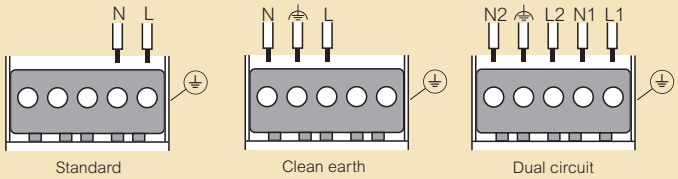
IEE Wiring regulations

Legrand fully complies with BS 7671 : 2001

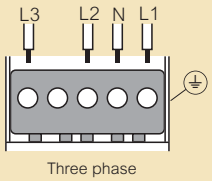
Section 607 requirements

All items comply with the relevant paragraphs of Section 607 of BS 7671 : 2001

■ Terminal block connections

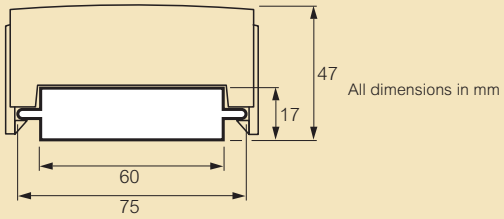


The three types above are compatible and an installation can be downrated from the dual circuit to either standard or clean earth in mid-run by means of a flexible bend or direct connection (see opposite)



The three phase system is not interchangeable

■ Track length

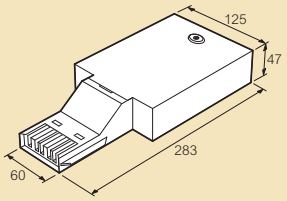


Overall height : 47 mm with feeder unit and tap-off

■ Feeder units

Two – 20/25 mm knockout entries
Terminal capacity 16 mm² maximum
Supplied complete with terminal block, lid and turnbuckle fastener and one end cap

All dimensions in mm

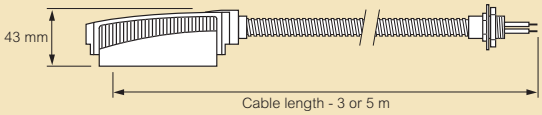


■ Tap-offs

Section 473-02-02 of the Wiring Regulations require any conductor exceeding 3 m in length to have a fault current protective device (e.g. fuse) at the point where current carrying capacity is reduced (tap-off plug)

All tap-offs over 3 m will be supplied with a BS1362 13 A fuse fitted within the plug
If the system is to be protected by a 32 A breaker then unfused tap-offs exceeding 3 m may be specified at time of order
Other pre-wired tap-off lengths are available on request

Unfused tap-offs are rated at 32 A
Fused tap-offs are supplied with a standard BS1362 13 A fuse

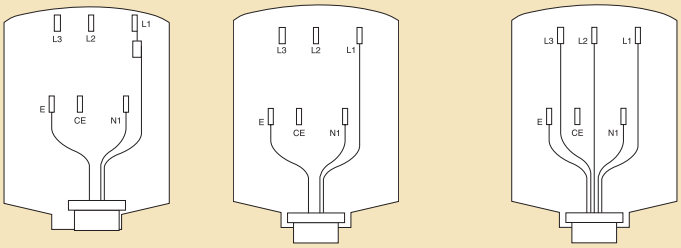


Tap-off length refers to the cable and not the conduit length
The conduit is 250 mm shorter than the cable length

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Tap-offs for three phase power track

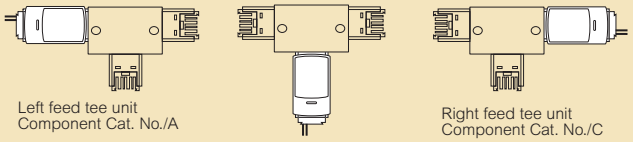
Single phase tap-offs | **Three phase tap-off**



PTO3FR/PTO5FR (fused) | PTO3UR (unfused) | PTO3U (unfused)

■ Tees and four ways

Supplied complete with slider, lid, turnbuckle fasteners and end cap(s)



Left feed tee unit
Component Cat. No./A

Centre feed tee unit
Component Cat. No./B

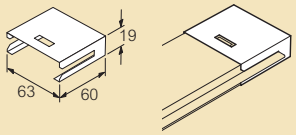
Right feed tee unit
Component Cat. No./C

■ Flexible bends



■ End cap

Cat. No. SEC

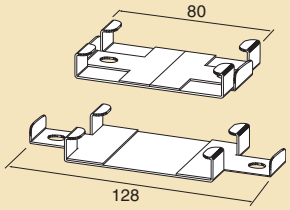


All dimensions in mm

■ Hold down clamp

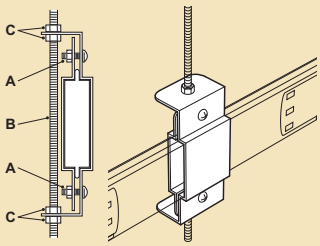
Each power track length is supplied already fitted with sliding clamps.
- 2 clamps on each 1·2, 1·8 and 2·4 metre length
- 3 clamps on each 3·0 and 3·6 metre length

All dimensions in mm



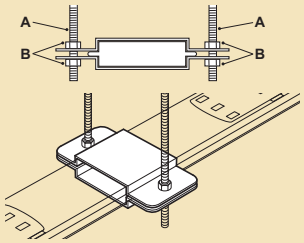
■ Vertical hanger bracket

Supplied in two parts complete with clamping screws (A)
Use one M8 threaded rod (B) and four M8 nuts (C) (one above and below each bracket flange)
Recommended spacing between vertical hanger brackets is 1 metre maximum



■ Horizontal hanger bracket

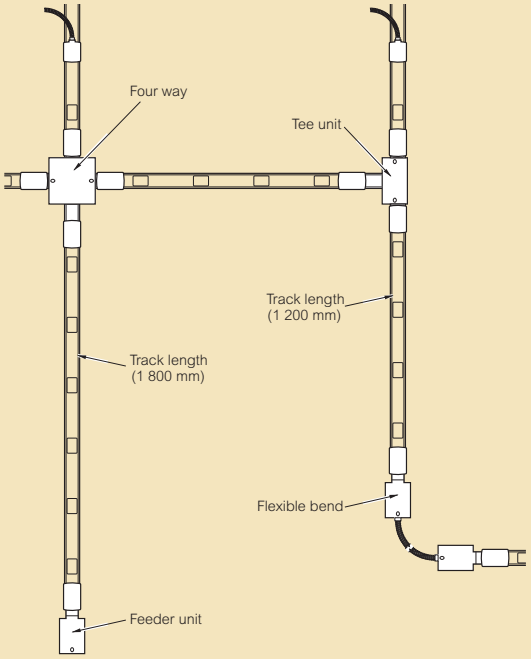
Supplied in two parts
Use two M8 threaded rods (A) and four M8 nuts (B) (one above and below each bracket flange)
Recommended spacing between horizontal hanger brackets is 1 metre maximum

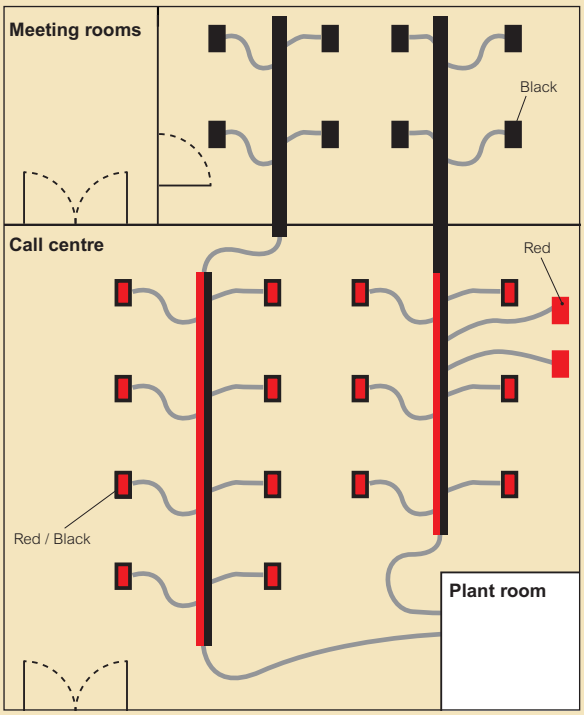


■ Typical Layout

The example opposite shows a typical layout consisting of numerous service outlet boxes with both standard and clean earth sockets in the call centre, two boxes with just clean earth sockets (fax, photocopier, etc) and boxes with standard sockets in the meeting rooms.
Boxes with both standard and clean earth sockets can be fed with a dual circuit tap-off into a dual circuit track. The two clean earth boxes can be fed from the dual circuit track with just a clean earth tap-off

The system can then be downgraded by connecting standard track on to the dual circuit track by means of a flexible bend or direct connection. The continuing circuit is then restricted to a standard two bar and earth. This will save the contractor time and money by eliminating the need for extra cable and feeder units that would be required with separate systems





- 3 compartment service outlet box complete with 1 standard twin socket and 1 clean earth red twin socket.
- 3 compartment service outlet box complete with 2 clean earth red twin sockets.
- 3 compartment service outlet box complete with 2 standard twin sockets.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

cavity floor service outlet boxes
moulded trim boxes


CFB 3


CFB 4


CB 1


CFB 3MOD


CFB 3RCBO

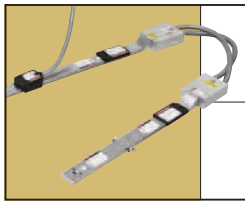

PG1RCBO

Dimensions and technical information (p. 205)

Pack	Cat. Nos.	Standard boxes
		Supplied complete with one 13 A twin switched socket (back wired) and plate
		Additional sockets and plates should be ordered separately (see p. 202-203)
		Recommended hole cut-out size : 305 x 225 mm
		Will fit floor tile thickness range of 19 to 46 mm. 7 mm lid recess
		Standard depth : 75 mm
		Universal 20/25 mm knockouts to each compartment
		Manufactured from pre-galvanised steel to BS EN 10142 and 3, and polycarbonate/ABS
		Moulded trim boxes
1	CFB 3	3 compartment
1	CFB 4	4 compartment
		On the 4 compartment box, plate widths are reduced (see p. 205)

Pack	Cat. Nos.	Contractor floor box
		Supplied empty
		Ready to accept standard BS two gang wiring accessories. Additional mounting plates not required
		Recommended hole cut-out size : 297 x 210 mm (A4)
		Will fit floor tile thickness range of 10 to 50 mm 10 mm lid recess
		Standard depth : 85 mm
		Universal 20/25 mm knockouts to each compartment
		Manufactured from pre-galvanised steel to BS EN 10142 and grey Nylon 6
1	CB 1	3 compartment contractor floor box

Pack	Cat. Nos.	RCD modular solutions
		Boxes and grommets that provide a solution to local RCD protection. For circuit protection refer to p. 205
		Additional sockets and plates should be ordered separately (see p. 202-203)
		Manufactured from pre-galvanised steel to BS EN 10327 – grade DX51D
		Recommended hole cut-out size for floor box : 305 x 225 mm
		Recommended hole cut-out size for grommet : 127 mm Diameter
		Grommets to feed up to 4 modular floor boxes
		Modular grommet contains a RCD / RCBO pre-wired to four 16 A outlet sockets. These are then used to connect up to four modular floor boxes using the interlink cable
		Supplied complete with :
1	PG1RCD	30 mA 25 A RCD
1	PG1RCBO	30 mA 16 A RCBO
		Interlink cables
1	650287	4 m interlink cable
1	650288	2 m interlink cable
		Modular floor boxes
		Pre-wired to 16 A connector. Supplied complete with one 13 A twin switched socket
1	CFB3MOD	3 compartment
1	CFB4MOD	4 compartment
		Stand alone RCD floor boxes
		Supplied with one compartment fitted with 30 mA 40 A RCD and one 13 A twin switched socket
1	CFB3RCD	3 compartment RCD floor box
1	CFB4RCD	4 compartment RCD floor box
		Stand alone RCBO floor boxes
		Supplied with one compartment fitted with 30 mA 16 A RCBO and one 13 A twin switched socket
1	CFB3RCBO	3 compartment RCBO floor box
1	CFB4RCBO	4 compartment RCBO floor box
		On the 4 compartment box, plate widths are reduced (see p. 205)



For power track systems

see p. 194-197



Alternative protective devices, special depths and finishes are also available

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

cavity floor service outlet boxes
moulded trim and steel trim boxes


CFB 1G MT


CFB 1C MT


CFB DBOX

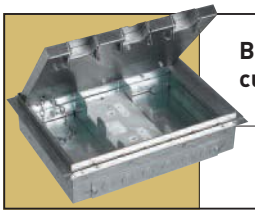
CFB 3 DATA


CFB 2C MT

Dimensions and technical information (p. 205)

Pack	Cat. Nos.	Modular box
		Provides the flexibility of removable back boxes Supplied complete with one 13 A twin switched socket (back wired) and plate Standard plates and back boxes are listed below **Alternative plates are available on request** Material similar to standard boxes, see opposite Recommended hole cut-out size : 305 x 225 mm Will fit floor tile thickness range of 19 to 46 mm. 7 mm lid recess Standard depth : 77 mm
1	CFB 3 DATA	3 compartment modular box
		Plates and data back boxes
1	CFB DBOX	Empty data back box
1	DBOX NXPB3	Blank plate - data back box
1	DBOX NSP221	Twin switched13 A dual earth socket - data back box
1	DBOX NSP221CE	Twin switched 13 A clean earth socket - data back box
1	DBOX NXMT34	4 - 37 x 22 mm data cut-outs (LJ6C) - data back box
1	DBOX NXMT36	6 - 37 x 22 mm data cut-outs (LJ6C) - data back box
1	DBOX NXAS34	4 - 50 x 25 mm data cut-outs (LJ6C) - data back box

Pack	Cat. Nos.	Metal trim boxes
		Supplied complete with one 13 A twin switched socket (back wired) and plate (except single socket box supplied with one 13 A single socket) **Additional sockets and plates should be ordered separately (see p. 202-203)** Available as powder coated, stainless steel or brass Manufactured from pre-galvanised steel to BS EN 10142 and 3, and steel trim : Powder coated to BS 4800 - 18B25 Brass to BS 2870 Grade CZ108 Stainless steel to BS EN 10088 Grade 1.4301 brushed or polished As standard, will fit floor tile thickness range of 19 to 46 mm. 7 mm lid recess Standard depth 75 mm
1	CFB 1G MT	Recommended hole cut-out size : 132 x 132 mm Single socket box
1	CFB 1C MT	Recommended hole cut-out size : 225 x 132 mm 1 compartment box
1	CFB 2C MT	Recommended hole cut-out size : 225 x 219 mm 2 compartment box
1	CFB 3C MT	Recommended hole cut-out size : 305 x 225 mm 3 compartment box
1	CFB 4C MT	Recommended hole cut-out size : 305 x 225 mm 4 compartment box On the 4 compartment box, plate widths are reduced (see p. 205)



Bespoke solutions are available to meet customers' special requests

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

power sockets and plates

power sockets and plates for cavity boxes and floor trunking

Switched sockets are double pole. The standard colour of the sockets is white, but sockets can be supplied coloured red or black
When ordering add suffix /R and /B respectively. Sockets and plates can be supplied to accommodate a mix of standard and non-standard outlets e.g. 1 x single standard and 1 x non-standard

Special and custom-made plates available on request
Contact us on 0845 605 4333

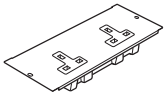
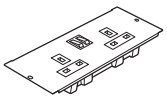
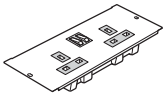
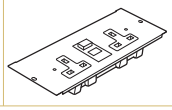
Back wired power sockets and plates

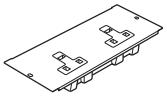
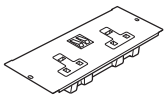
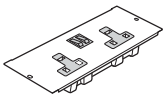


Back wired for use with cavity floor boxes (see pages 200-201)

These plates do not fit contractor box CB1

Plates fitted with sockets

13 A standard		Pack	3 compartment	4 compartment
Twin unswitched		1	NSP2013	NSP2014
Twin switched		1	NSP2213	NSP2214
Twin switched clean earth[1]		1	NSP2213CE	NSP2214CE
30 mA RCD twin socket		1	NFP315	–

13 A non-standard		Pack	3 compartment	4 compartment
Twin unswitched		1	NOP2013	NOP2014
Twin switched		1	NOP2213	NOP2214
Twin switched clean earth[1]		1	NOP2213CE	NOP2214CE

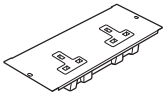
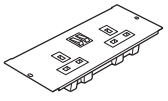
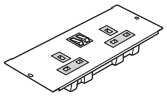
(1) Red pin shield as standard

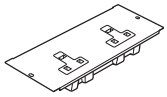
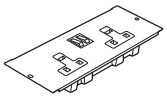
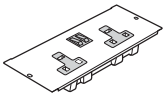
Side wired power sockets and plates

Side wired for use with screeded floor boxes, i.e. in flush, shallow flush floor trunking and underfloor duct (see p. 186-189)



Plates fitted with sockets

13 A standard		Pack	3 compartment	4 compartment
Twin unswitched		1	NSP2023	NSP2024
Twin switched		1	NSP2223	NSP2224
Twin switched clean earth[1]		1	NSP2223CE	NSP2224CE

13 A non-standard		Pack	3 compartment	4 compartment
Twin unswitched		1	NOP2023	NOP2024
Twin switched		1	NOP2223	NOP2224
Twin switched clean earth[1]		1	NOP2223CE	NOP2224CE

Non standard 13 A plug		1	C0104

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

service outlet plates
plates for cavity boxes and floor trunking

Special and custom made plates available on request

Contact us on 0845 605 4333

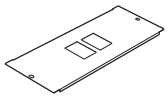
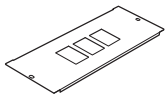
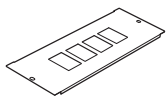
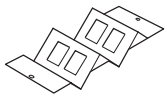
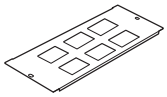
Service outlet plates

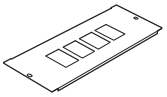
Plates for use with cavity floor boxes and screeded floor boxes, ie in flush, shallow flush floor trunking and underfloor duct

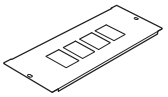


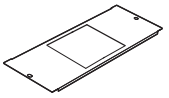
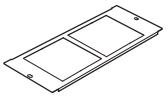



Data outlet plates

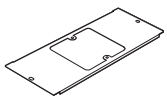
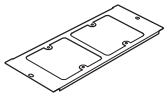
Data outlet plates Cut-out : 37 x 22 mm		Pack	3 compartment	4 compartment
2 cut-outs		1	NXMT32	NXMT42
3 cut-outs		1	NXMT33	NXMT43
4 cut-outs		1	NXMT34	NXMT44
4 cut-outs wave plate		1	NXMW34	NXMW44
6 cut-outs		1	NXMT36	–

Cut-out : 24 x 16 mm		Pack	3 compartment	4 compartment
4 cut-outs		1	NXKS34	NXKS44

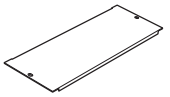
Cut-out : 47·5 x 23·5 mm		Pack	3 compartment	4 compartment
4 cut-outs		1	NXAS34	NXAS44

Cut-out : 50 x 50 mm		Pack	3 compartment	4 compartment
1 cut-out		1	NXEM5531	NXEM5541
2 cut-outs		1	NXEM5532	NXEM5542

Standard single outlet(1)

		Pack	3 compartment	4 compartment
1 gang cut-out		1	NXP6033	–
2 x 1 gang cut-out		1	NXP60323	–

Blank plates

		Pack	3 compartment	4 compartment
Blank plate		1	NXPB3	NXPB4

(1) To accept BS 1363 data outlets. If BS 1363 power sockets are fitted, the plug may prevent the lid from shutting correctly

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

cavity floor service outlet boxes
grommets


SG1


PG1


0893 07


AM1 C


LSG2

Dimensions and technical information (p. 205)

Pack	Cat. Nos.	Small plastic grommets
		Manufactured from polycarbonate / ABS Standard colour is grey to BS 4800 18B25
		Recommended hole cut-out size : 127 mm diameter Will fit floor tile thickness range of 20 to 44 mm
		20 mm diameter knockouts
		Small plastic access grommet
		Allows power, data and flexible conduit up to 20 mm diameter to pass safely through the raised access floor
		Standard depth : 62 mm
1	SG1	Access grommet
		Small plastic power grommet
		Standard depth : 85 mm
1	PG1	Supplied complete with : 13 A socket


SG1

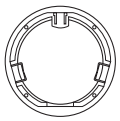

PG1

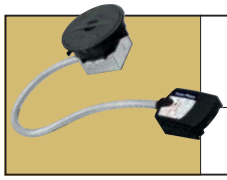
Pack	Cat. Nos.	Small aluminium grommets
		Body - cast aluminium Main jaw - injection moulded plastic Nylon 66 Inner jaws - closed cell Neoprene
		Recommended hole cut-out size : 127 mm diameter Will fit floor tile thickness range of 25 to 55 mm
		Small aluminium access grommet
		Can form the base of a range of cable management products such as power posts and poles
		Standard depth : 60 mm
1	0893 07	Access grommet
		Small aluminium power grommet
	AM1C	Standard depth : 95 mm


0893 07


AM1 C

Pack	Cat. Nos.	Large access and power grommets
		Supplied with a 105 x 45 mm dropout lid section for flexible conduit
		Manufactured from polycarbonate / ABS Colour : grey to BS 4800 18B25
		Recommended hole cut-out size : 250 mm diameter
		Will fit floor tile thickness range of 15 to 35 mm. 7 mm lid recess
		20 mm diameter knockouts
		Large service access grommet
		Standard depth : 55 mm
1	LSG2	Access grommet


LSG2



All power grommets are available pre-wired

Contact us on 0845 605 4333

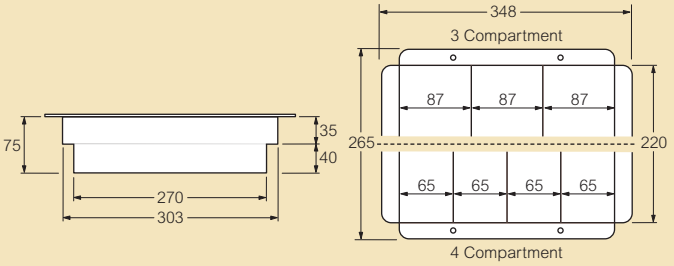
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Service outlet boxes

All dimensions (mm) are nominal

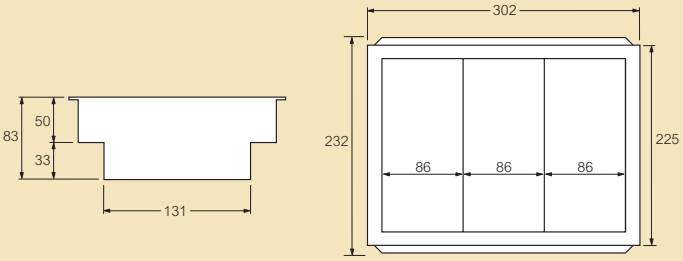
Standard boxes

CFB 3 and CFB 4 (moulded or steel trim)

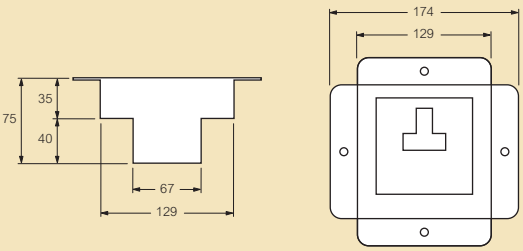


Contractor box

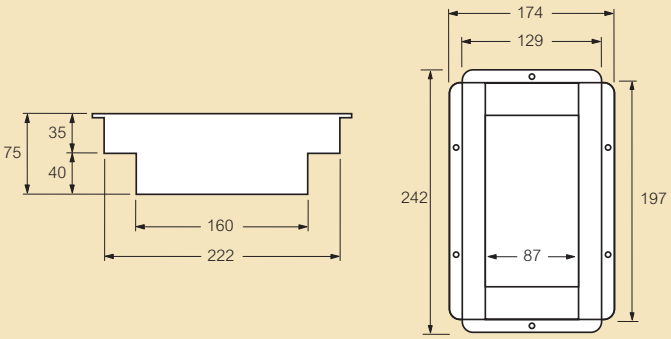
CB 1



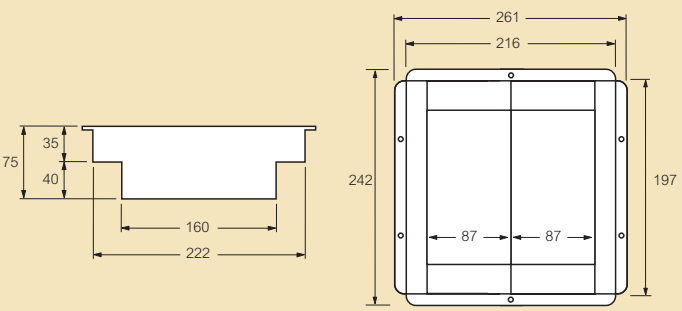
Single socket box



1 compartment box

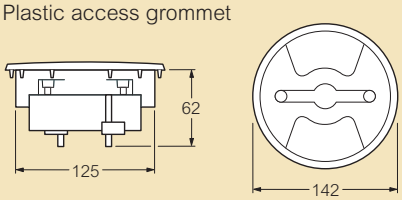


2 compartment box

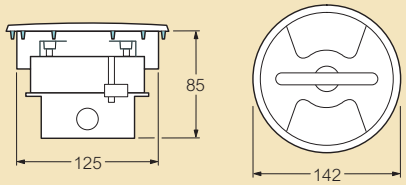


■ Small plastic grommets

Plastic access grommet

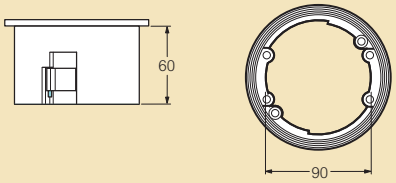


Plastic power grommet

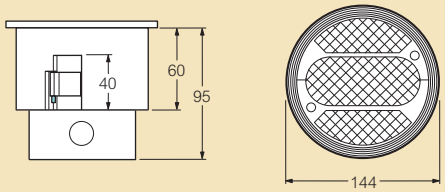


■ Small aluminium grommets

Aluminium access grommet

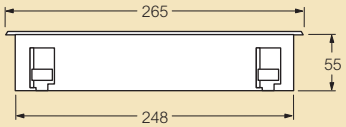


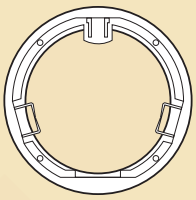
Aluminium power grommet



■ Large grommets

Large access grommet





LSG2

■ RCD / RCBO modular solutions

When designing a system using RCD modular solutions, care should be taken to include overload protection of the entire circuit. The protective device should take into consideration that the interlink and connectors are rated at 16 A. This protection would need to be provided at source with a device such as a 16 A MCB or, if Powertrack is being used, the tap-off should be fused at 13 A

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Cable management ceiling systems

Swifts® cable ladder

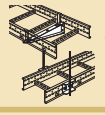

P. 212 Selection chart

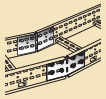

P. 216 Light duty (Opal) ladder


P. 217 General purpose (Topaz) ladder


P. 218 Heavy duty (Sapphire) ladder


P. 219 Extra heavy duty (Emerald) ladder


P. 220 Supports


P. 221 Ancillary items


P. 223 Covers – closed and ventilated

Swifts® cable tray

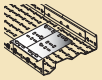

P. 238 Selection chart


P. 242 SS light duty cable tray


P. 243 MRF general purpose cable tray

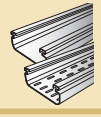

P. 244 SRF heavy duty cable tray

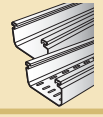

P. 245 Supports

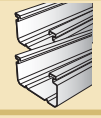

P. 246 Ancillary items

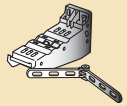
Swifts® PVC-U cable tray


P. 254 Selection chart


P. 256 50 mm depth cable tray


P. 257 75 mm depth cable tray

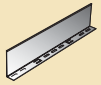

P. 258 100 mm depth cable tray

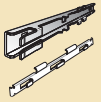

P. 259 Supports and accessories

Swifts® SW steel wire cable tray

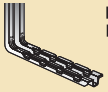

P. 268 Selection chart


P. 270 Steel wire cable tray lengths

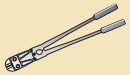

P. 271 Steel wire cable tray ancillary items


P. 272 Steel wire cable tray couplers


P. 273 Steel wire cable tray fixings and supports


P. 274 Profile brackets

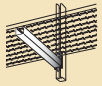

P. 275 Standard brackets


P. 276 Ancillary items

Swiftrack channel support


P. 289 Channels and channel nuts


P. 292 Framework brackets, clamps and accessories


P. 296 Cantilever arms


P. 297 Standard fixings and fastenings

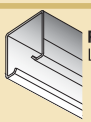
Salamandre® distribution trunking


P. 304 Selection chart

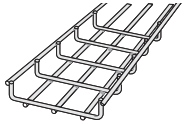

P. 307 Standard trunking


P. 308 Standard trunking fittings


P. 310 Standard trunking accessories


P. 316 Lighting trunking

New in 2007



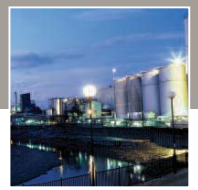
Swifts SW

steel wire cable tray (p. 270)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cable management ceiling systems

With its market leading Swifts brand, Legrand offers perfect solutions for cable management requirements in and around ceilings. From tried and tested reliability with cable tray and ladder, to cutting edge innovation with PVC-U tray and the brand new range of Swifts SW steel wire cable tray.



SWIFTS SW STEEL WIRE CABLE TRAY



With a large range of sizes and a choice of three different finishes, Swifts SW boasts an extensive array of innovative bracketry with simple slot-together installation.

SWIFTS STEEL CABLE TRAY

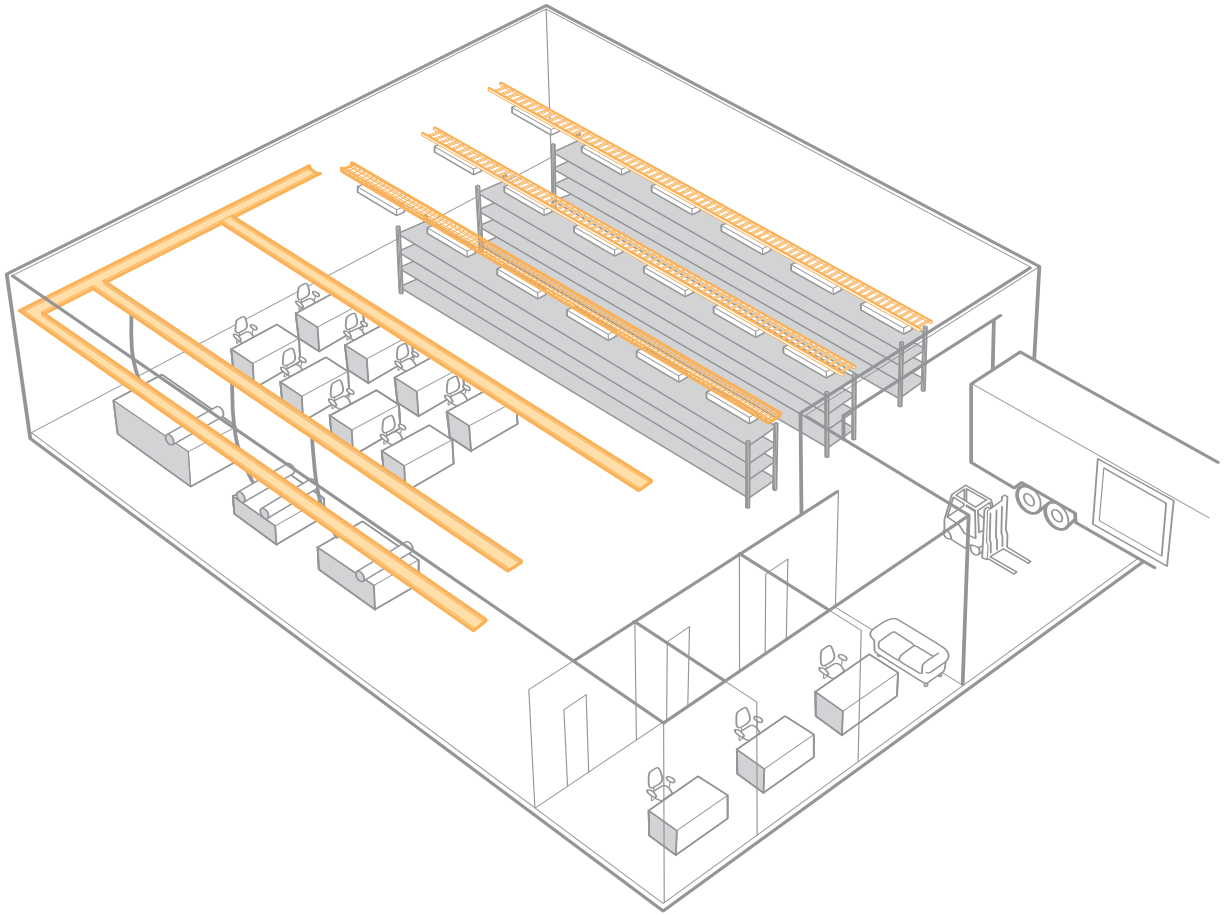


Available in different finishes to suit any environment, Swifts steel cable tray has integrated couplers on all fittings, saving time and money during installation.

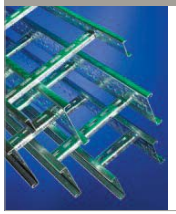
SWIFTS PVC-U CABLE TRAY



Extra-strong and corrosion free, Swifts PVC-U cable tray has click-fit couplers for speedy installation and moulded bends and risers for a more professional finish.



SWIFTS CABLE LADDER



Slotted rail cable ladder for large spans and heavy cable loads. With dome head bolts to prevent cable damage and a large variety of supports and accessories.

SWIFTRACK CHANNEL SUPPORT



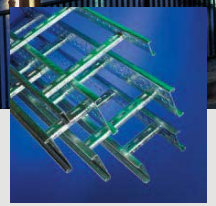
The backbone of all supports, Swiftrack is a range of channel, brackets and fittings for cable management and buliding services support frameworks.

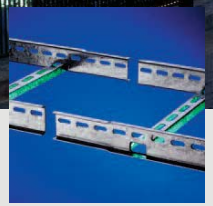
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

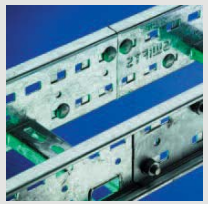
The ladder of success

This comprehensive system of slotted rail cable ladder incorporates all the installation features demanded by contractors and enables the coupling of lengths and accessories without the need for drilling.







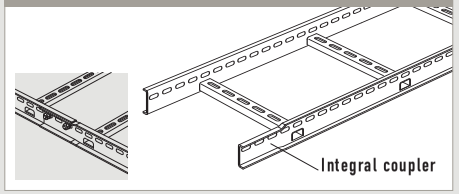




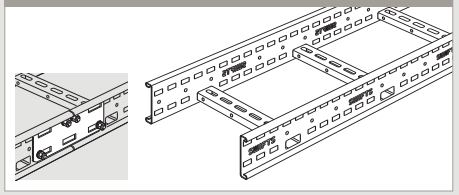
Swifts cable ladder is an established favourite in the UK and abroad... and with a wealth of innovative installation features, it remains the market leader.

- Four unique ranges to choose from
- Integrated coupler on light duty range
- Dome-head bolts to prevent damage to cables
- Widest range of support systems available in the UK
- Alternative rung types
- Four finishes to suit different environments

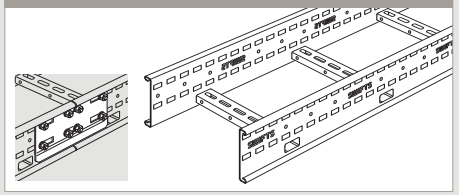
OPAL - LIGHT DUTY



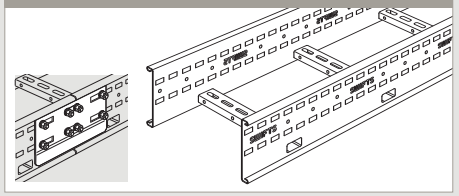
TOPAZ - GENERAL PURPOSE



SAPPHIRE - HEAVY DUTY



EMERALD - EXTRA HEAVY DUTY



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Ordering Information

All Ladders, complies with BS EN 61537 : 2006
Cat. Nos. are generated by replacing the red letters in the product code with the relevant width, angle, radius, branch and finish (where needed). Examples are provided below and in the selection charts in the following pages

Light duty (Opal)
Standard widths :
150, 300, and 450 mm
Supplied with standard type 4 rungs
Key to selecting fittings (see selection chart p. 212)
Examples :
For a hot dip galvanised straight length, 450 mm wide :
Product code = OL 450 F – Cat. No. = OL 450 G
For a hot dip galvanised 90° flat bend with 300 mm radius, 450 mm wide :
Product code = OFB 450 A r F – Cat. No. = OFB 450 90 300 G.
Note :
Not available in D (deep galvanised) finish
Fittings only available in 300 mm radius

General purpose (Topaz)
Standard widths :
150, 300 and 600 mm
Supplied with standard type 1 rungs throughout unless otherwise specified.
Key to selecting fittings (see selection chart p. 212)
Examples :
For a hot dip galvanised straight length, 600 mm wide :
Product code = ZL 600 F – Cat. No. = ZL 600 G.
For a hot dip galvanised 90° flat bend with 300 mm radius, 600 mm wide :
Product code = ZFB 600 A r F – Cat. No. = ZFB 600 90 300 G

Heavy duty (Sapphire)
Standard widths :
150, 300, 450, 600, 750 and 900 mm
6 m lengths available to special order e.g. PL 600 G 6 M
Contact our Customer Service Department for details on 0845 605 4333
Supplied with standard type 1 rungs throughout unless otherwise specified
Key to selecting fittings (see selection chart p. 214)
Examples :
For a hot dip galvanised straight length, 600 mm wide :
Product code = PL 600 F – Cat. No. = PL 600 G
For a hot dip galvanised 90° flat bend with 300 mm radius, 600 mm wide :
Product code = PFB 600 A r F – Cat. No. = PFB 600 90 300 G

Extra heavy duty (Emerald)
Standard widths :
150, 300, 450, 600, 750 and 900 mm
6 m lengths available to special order e.g. EL 600 G 6 M
Contact our Customer Service Department for details on 0845 605 4333
Supplied with standard type 1 rungs throughout unless otherwise specified.
Key to selecting fittings (see selection chart p. 214)
Examples :
For a hot dip galvanised straight length, 600 mm wide :
Product code = EL 600 F – Cat. No. = EL 600 G
For a hot dip galvanised 90° flat bend with 300 mm radius, 600 mm wide :
Product code = EFB 600 A r F – Cat. No. = EFB 600 90 300 G

Note :
Light duty (Opal) is only available with type 4 rungs which cannot be inverted

FINISHES
Standard stocked finish :
G Hot dip galvanised after manufacture to BS EN ISO 1461.
Additional Finishes:
D Deep galvanised high silicon steel made from BS EN 10025 – 5 grade S355JOW.
S Stainless steel to BS EN 10088 – 2 grade 1·4404 (equivalent to 316L31).

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

Swifts® cable ladder systems straight lengths and fittings

light duty (Opal) and general purpose (Topaz)

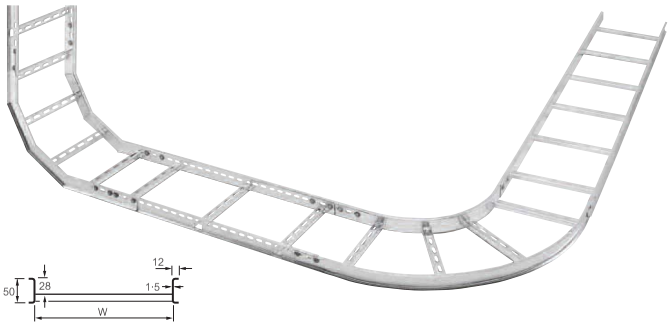
	LADDER		FITTINGS							FITTINGS		
	Widths (mm)	Straight lengths (3 m) F = finish	Coupler sets[1] F = finish	Flat bends A = angle r = radius F = finish	Inside risers A = angle r = radius F = finish	Outside risers A = angle r = radius F = finish	Equal tees r = radius F = finish	4 way crosspieces r = radius F = finish		Straight reducers K = reduced width F = finish	Offset reducers (left hand) K = reduced width F = finish	Offset reducers (right hand) K = reduced width F = finish
LIGHT DUTY (OPAL)	150	OL 150 F	OC F	OFB 150 A r F	OIR 150 A r F	OOR 150 A r F	OT 150 r R F	OX 150 r R F		–	–	–
	300	OL 300 F	OC F	OFB 300 A r F	OIR 300 A r F	OOR 300 A r F	OT 300 r R F	OX 300 r R F		OSR 300 K F	OLR 300 K F	ORR 300 K F
	450	OL 450 F	OC F	OFB 450 A r F	OIR 450 A r F	OOR 450 A r F	OT 450 r R F	OX 450 r R F		OSR 450 K F	OLR 450 K F	ORR 450 K F

(1) Required only where ladder has been cut to length. When joining a cut length to an uncut length or an accessory only one coupler is required

Key : selecting light duty (Opal) fittings

Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 90 or 45
F = Finish : G (hot dip galvanised after manufacture)
K = Narrowed width when using a reducer (mm) : 150, 300
r = Radius (mm) : 300 – only 300 available in light duty (Opal)

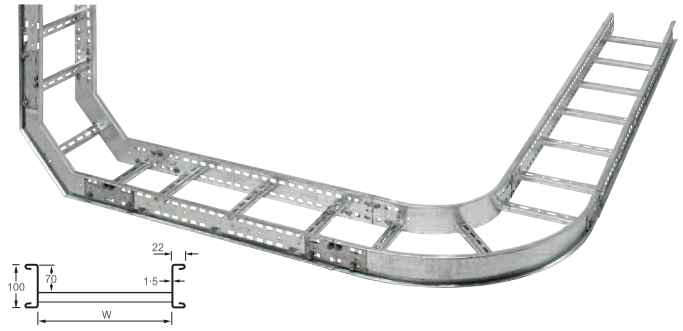


	LADDER		FITTINGS							FITTINGS		
	Widths (mm)	Straight lengths (3 m) F = finish	Coupler sets F = finish	Flat bends A = angle r = radius F = finish	Inside risers A = angle r = radius F = finish	Outside risers A = angle r = radius F = finish	Equal tees r = radius F = finish	Unequal tees B = branch r = radius F = finish	4 way crosspieces r = radius F = finish	Straight reducers K = reduced width F = finish	Offset reducers (left hand) K = reduced width F = finish	Offset reducers (right hand) K = reduced width F = finish
GENERAL PURPOSE (TOPAZ)	150	ZL 150 F	ZC F	ZFB 150 A r F	ZIR 150 A r F	ZOR 150 A r F	ZT 150 r R F	ZUT 150 B r R F	ZX 150 r R F	–	–	–
	300	ZL 300 F	ZC F	ZFB 300 A r F	ZIR 300 A r F	ZOR 300 A r F	ZT 300 r R F	ZUT 300 B r R F	ZX 300 r R F	ZSR 300 K F	ZLR 300 K F	ZRR 300 K F
	600	ZL 600 F	ZC F	ZFB 600 A r F	ZIR 600 A r F	ZOR 600 A r F	ZT 600 r R F	ZUT 600 B r R F	ZX 600 r R F	ZSR 600 K F	ZLR 600 K F	ZRR 600 K F

Key : selecting general purpose (Topaz) fittings

Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 600
F = Finish : G (hot dip galvanised after manufacture)
D = (deep galvanised), S (stainless steel)
K = Narrowed width when using a reducer (mm) : 150, 300
r = Radius (mm) : 300, 600



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Swifts® cable ladder systems straight lengths and fittings

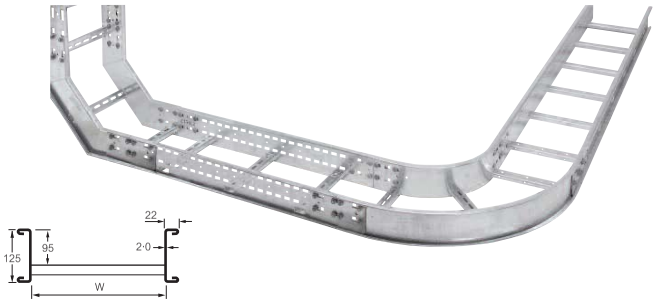
Heavy duty (Sapphire) and extra heavy duty (Emerald)

	LADDER		FITTINGS								FITTINGS		
	Widths (mm)	Straight lengths (3 and 6 m) F = finish	Coupler sets F = finish	Flat bends A = angle r = radius F = finish	Inside risers A = angle r = radius F = finish	Outside risers A = angle r = radius F = finish	Equal tees r = radius F = finish	Unequal tees B = branch r = radius F = finish	4 way crosspieces r = radius F = finish		Straight reducers K = reduced width F = finish	Offset reducers (left hand) K = reduced width F = finish	Offset reducers (right hand) K = reduced width F = finish
HEAVY DUTY (SAPPHIRE)	150	PL 150 F	PC F	PFB 150 A r F	PIR 150 A r F	POR 150 A r F	PT 150 r R F	PUT 150 B r R F	PX 150 r R F		–	–	–
	300	PL 300 F	PC F	PFB 300 A r F	PIR 300 A r F	POR 300 A r F	PT 300 r R F	PUT 300 B r R F	PX 300 r R F		PSR 300 K F	PLR 300 K F	PRR 300 K F
	450	PL 450 F	PC F	PFB 450 A r F	PIR 450 A r F	POR 450 A r F	PT 450 r R F	PUT 450 B r R F	PX 450 r R F		PSR 450 K F	PLR 450 K F	PRR 450 K F
	600	PL 600 F	PC F	PFB 600 A r F	PIR 600 A r F	POR 600 A r F	PT 600 r R F	PUT 600 B r R F	PX 600 r R F		PSR 600 K F	PLR 600 K F	PRR 600 K F
	750	PL 750 F	PC F	PFB 750 A r F	PIR 750 A R F	POR 750 A r F	PT 750 r R F	PUT 750 B r R F	PX 750 r R F		PSR 750 K F	PLR 750 K F	PRR 750 K F
	900	PL 900 F	PC F	PFB 900 A r F	PIR 900 A r F	POR 900 A r F	PT 900 r R F	PUT 900 B r R F	PX 900 r R F		PSR 900 K F	PLR 900 K F	PRR 900 K F

Key : selecting heavy duty (Sapphire) fittings

Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture),
D (deep galvanised), S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 150, 300, 450, 600, 750
r = Radius (mm) : 300, 600

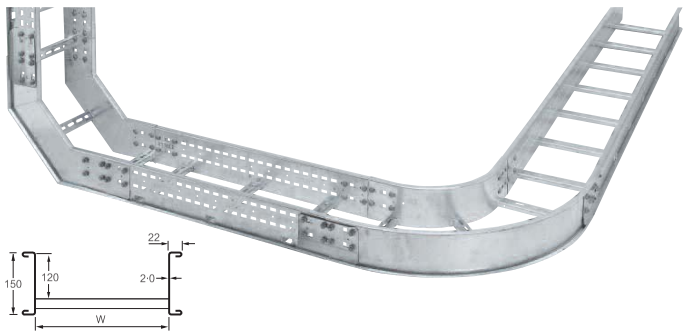


	LADDER		FITTINGS								FITTINGS		
	Widths (mm)	Straight lengths (3 and 6 m) F = finish	Coupler sets F = finish	Flat bends A = angle r = radius F = finish	Inside risers A = angle r = radius F = finish	Outside risers A = angle r = radius F = finish	Equal tees r = radius F = finish	Unequal tees B = branch r = radius F = finish	4 way crosspieces r = radius F = finish		Straight reducers K = reduced width F = finish	Offset reducers (left hand) K = reduced width F = finish	Offset reducers (right hand) K = reduced width F = finish
EXTRA HEAVY DUTY (EMERALD)	150	EL 150 F	EC F	EFB 150 A r F	EIR 150 A r F	EOR 150 A r F	ET 150 r R F	EUT 150 B r R F	EX 150 r R F		–	–	–
	300	EL 300 F	EC F	EFB 300 A r F	EIR 300 A r F	EOR 300 A r F	ET 300 r R F	EUT 300 B r R F	EX 300 r R F		ESR 300 K F	ELR 300 K F	ERR 300 K F
	450	EL 450 F	EC F	EFB 450 A r F	EIR 450 A r F	EOR 450 A r F	ET 450 r R F	EUT 450 B r R F	EX 450 r R F		ESR 450 K F	ELR 450 K F	ERR 450 K F
	600	EL 600 F	EC F	EFB 600 A r F	EIR 600 A r F	EOR 600 A r F	ET 600 r R F	EUT 600 B r R F	EX 600 r R F		ESR 600 K F	ELR 600 K F	ERR 600 K F
	750	EL 750 F	EC F	EFB 750 A r F	EIR 750 A r F	EOR 750 A r F	ET 750 r R F	EUT 750 B r R F	EX 750 r R F		ESR 750 K F	ELR 750 K F	ERR 750 K F
	900	EL 900 F	EC F	EFB 900 A r F	EIR 900 A r F	EOR 900 A r F	ET 900 r R F	EUT 900 B r R F	EX 900 r R F		ESR 900 K F	ELR 900 K F	ERR 900 K F

Key : selecting extra heavy duty (Emerald) fittings

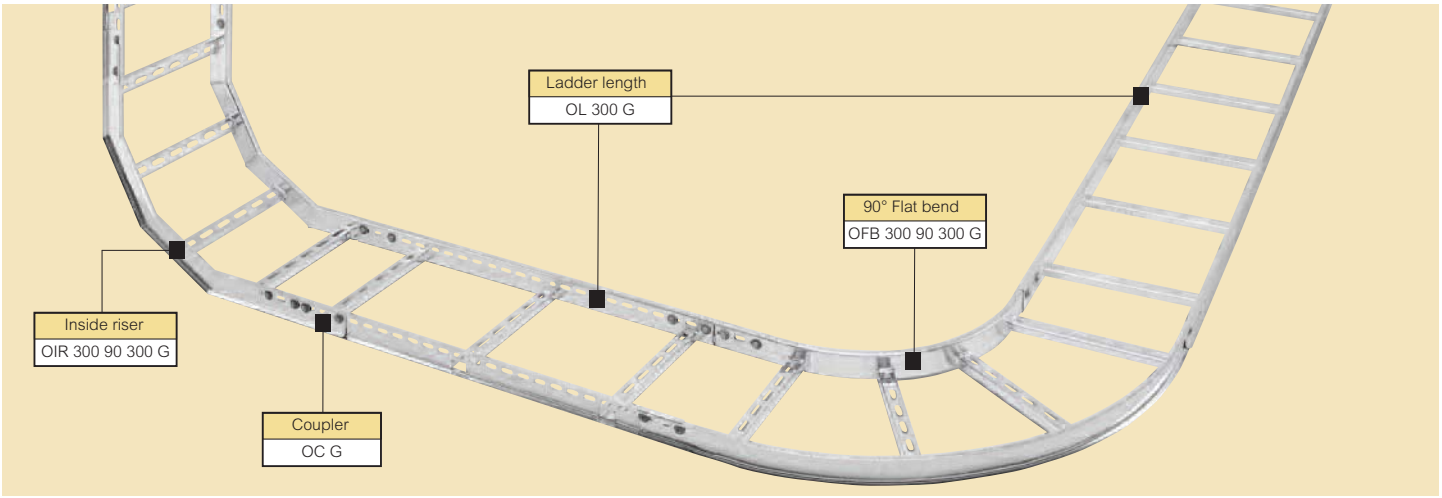
Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture),
D (deep galvanised), S (stainless steel)
K = Narrowed width when using a reducer (mm) : 150, 300, 450, 600, 750
r = Radius (mm) : 300, 600



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

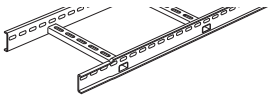
Swifts® cable ladder systems
light duty (Opal)



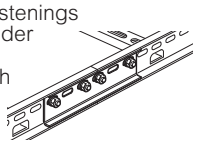
Dimensions and technical information (p. 225)
Selection chart (p. 212–213)

Integral couplers on straight lengths and accessories enable joints to be made quickly and easily, thereby reducing installation time
Rung spacing : 300 mm between centres
Standard radius for accessories : 300 mm

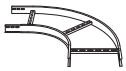
Pack	Cat. Nos.	Light duty (Opal) ladder
		Straight lengths – 3 m
1	OL 150 F	150 mm width
1	OL 300 F	300 mm width
1	OL 450 F	450 mm width



		Fittings
		Coupler sets
1	OC F	Supplied in pairs with fastenings Required only where ladder has been cut to length. When joining a cut length to an uncut length or an accessory only one coupler is required



		Fastenings
		Supplied in packs to couple five joints Pack consists of : M6 x 16 set screws 20 off M6 nuts 20 off M6 roofing washers 40 off M6 shakeproof washers 20 off All above fasteners can also be purchased individually in box quantities (see p. 224)
1	OFAST G	Hot dip galvanised fastening
1	OFB W A r F	**Flat bends**


90° Flat bend


45° Flat bend

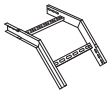
1	OIR W A r F	**Inside risers**


90° Inside riser


45° Inside riser

Pack	Cat. Nos.	Fittings (continued)
1	OOR W A r F	**Outside risers**


90° Outside riser


45° Outside riser

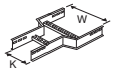
		Tees and crosspieces All tees and crosspieces include R after radius to indicate radius and not width
1	OT W r R F	**Equal tees**



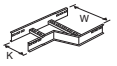
1	OX W r R F	**4 way crosspieces**



1	OSR W K F	**Straight reducers**



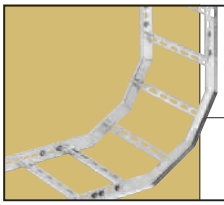
1	OLR W K F	**Offset reducers – left hand**



1	ORR W K F	**Offset reducers – right hand**



Key : selecting light duty (Opal) fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 150, 300, 450
A = Angle (°) : 90 or 45
F = Finish : G (hot dip galvanised after manufacture)
K = Narrowed width when using a reducer (mm) : 150, 300
r = Radius (mm) : 300

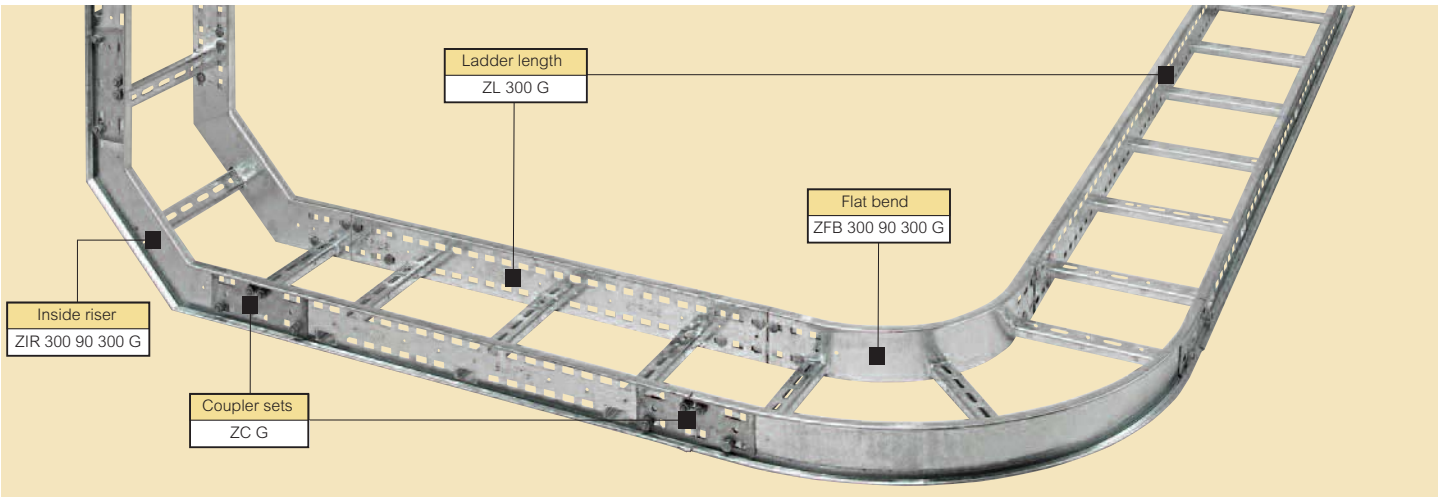


100, 225 and 600 mm widths, 30° and 60° bends and risers and unequal tees available to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

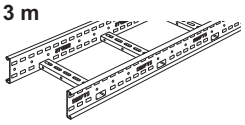
Swifts® cable ladder systems
general purpose (Topaz)



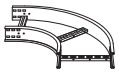
Dimensions and technical information (p. 226–230)
Selection chart (p. 212–213)

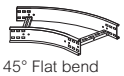
Coupler sets and accessories are supplied complete with fastenings
Rung spacing : 300 mm between centres
Standard radius for accessories : 300 and 600 mm

Pack	Cat. Nos.	General purpose (Topaz) ladder
		Straight lengths – 3 m
1	ZL 150F	150 mm width
1	ZL 300F	300 mm width
1	ZL 600F	600 mm width
		Fittings
		Coupler sets
1	ZCF	Supplied in pairs, with fastenings (4 per coupler) Use to couple straight lengths and accessories Even when ladder is cut to length, the slots in the coupler will always align with slots in the ladder side rail When bolting to cut ends adjust coupler to ensure 4 bolts can be inserted
1	ZFBWArF	**Flat bends**
1	ZIRWArF	**Inside risers**
1	ZORWArF	**Outside risers**






90° Flat bend


45° Flat bend


90° Inside riser

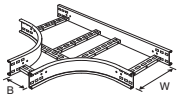

45° Inside riser


90° Outside riser

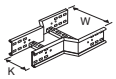

45° Outside riser

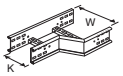
Pack	Cat. Nos.	Fittings (continued)
		Tees and crosspieces
		All equal and unequal tees and crosspieces include R after radius to indicate radius and not width
1	ZTWrRF	**Equal tees**
1	ZUTWBrRF	**Unequal tees** Example : The ordering code for a hot dip galvanised unequal tee with a 300 main run (W) and a 150 branch (B) with a 600R radius : ZUT 300 150 600R G
1	ZXWrRF	**4 way crosspieces** Crosspeices in larger width/ radius combinations are supplied in two indentical halves with fastenings
1	ZSRWKF	**Straight reducers**
1	ZLRWKF	**Offset reducers – left hand**
1	ZRRWKF	**Offset reducers – right hand**

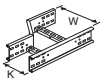












Key : selecting general purpose (Topaz) fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 150, 300, 600
A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 600
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised) S (stainless steel)
K = Narrowed width when using a reducer (mm) : 150, 300
r = Radius (mm) : 300, 600

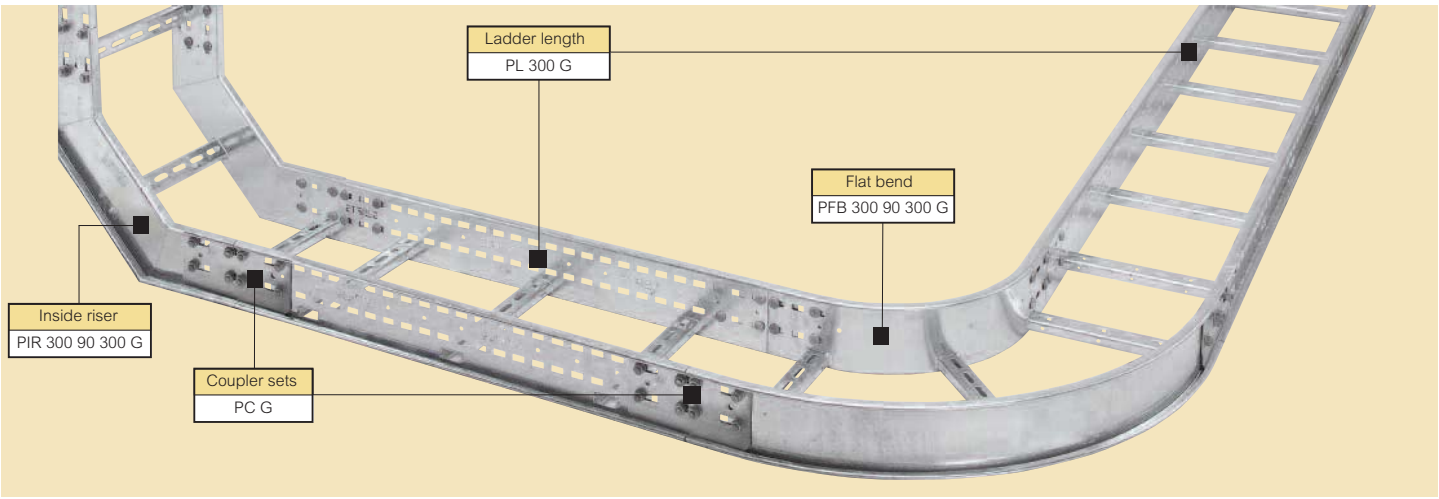


450, 750, 900 mm widths and 450, 750, 900 mm radii available to special order. 30° and 60° bends and risers and unequal tees available to special order. Other rung configurations available

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

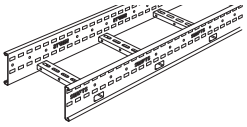
Swifts® cable ladder systems
heavy duty (Sapphire)



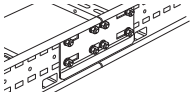
Dimensions and technical information (p. 226–230)
Selection chart (p. 214–215)

Coupler sets and accessories are supplied complete with fastenings
Rung spacing : 300 mm between centres
Standard radius for accessories : 300 and 600 mm

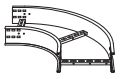
Pack	Cat. Nos.	Heavy duty (Sapphire) ladder
		Straight lengths – 3 m and 6 m
		6 m lengths available on special request : eg PL 600 G 6m
1	PL 150 F	150 mm width
1	PL 300 F	300 mm width
1	PL 450 F	450 mm width
1	PL 600 F	600 mm width
1	PL 750 F	750 mm width
1	PL 900 F	900 mm width

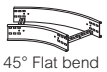


		Fittings
		Coupler sets
1	PC F	Supplied in pairs, with fastenings (8 per coupler). Use to couple straight lengths and accessories. Even when ladder is cut to length, the slots in the coupler will always align with slots in the ladder side rail When bolting to cut ends adjust coupler to ensure 8 bolts can be inserted



1	PFB W A r F	**Flat bends**


90° Flat bend


45° Flat bend

1	PIR W A r F	**Inside risers**


90° Inside riser

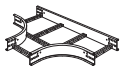

45° Inside riser

1	POR W A r F	**Outside risers**

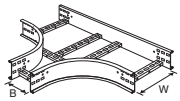

90° Outside riser


45° Outside riser

Pack	Cat. Nos.	Fittings (continued)
		Tees and crosspieces
		All equal and unequal tees and crosspieces include R after radius to indicate radius and not width
1	PT W r R F	**Equal tees**



1	PUT W B r R F	**Unequal tees**

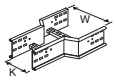


Example :
The ordering code for a hot dip galvanised unequal tee with a 300 main run (W) and a 150 branch (B) with a 600R radius : PUT 300 150 600R G

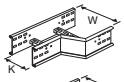
		4 way crosspieces
1	PX W r R F	Crosspeices in larger width/ radius combinations are supplied in two indentical halves with fastenings



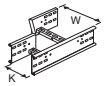
1	PSR W K F	**Straight reducers**



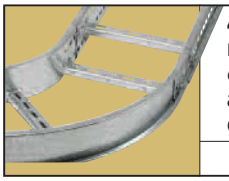
1	PLR W K F	**Offset reducers – left hand**



1	PRR W K F	**Offset reducers – right hand**



Key : selecting heavy duty (Sapphire) fittings. Replace the letters shown in red with your choice from the following options :
W = Widths : 150, 300, 450, 600, 750, 900
A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised) S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 150, 300, 450, 600, 750
r = Radius (mm) : 300, 600

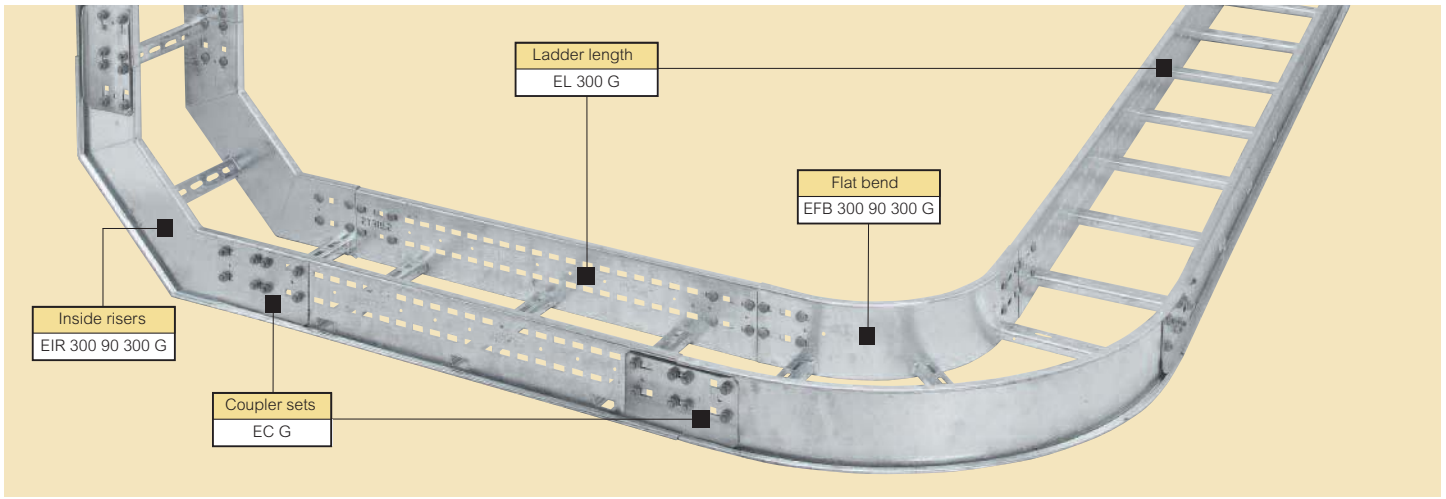


450, 750, 900 mm widths and 450, 750, 900 mm radii available to special order. 30° and 60° bends and risers and unequal tees available to special order. Other rung configurations available

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

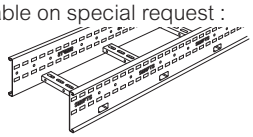
Swifts® cable ladder systems
extra heavy duty (Emerald)



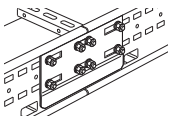
Dimensions and technical information (p. 226–230)
Selection chart (p. 214–215)

Coupler sets and accessories are supplied complete with fastenings
Rung spacing : 300 mm between centres
Standard radius for accessories : 300 and 600 mm

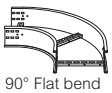
Pack	Cat. Nos.	Extra heavy duty (Emerald) ladder
		Straight lengths – 3 and 6 m
		6 m lengths available on special request : eg EL 600 G 6m
1	EL 150 F	150 mm width
1	EL 300 F	300 mm width
1	EL 450 F	450 mm width
1	EL 600 F	600 mm width
1	EL 750 F	750 mm width
1	EL 900 F	900 mm width

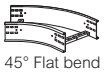


		Fittings
		Coupler sets
1	EC F	Supplied in pairs, with fastenings (8 per coupler). Use to couple straight lengths and accessories. Even when ladder is cut to length, the slots in the coupler will always align with slots in the ladder side rail When bolting to cut ends adjust coupler to ensure 8 bolts can be inserted



1	EFB WArF	**Flat bends**


90° Flat bend


45° Flat bend

1	EIR WArF	**Inside risers**


90° Inside riser


45° Inside riser

1	EOR WArF	**Outside risers**

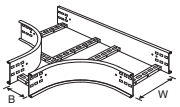

90° Outside riser


45° Outside riser

Pack	Cat. Nos.	Fittings (continued)
		Tees and crosspieces
		All equal and unequal tees and crosspieces include R after radius to indicate radius and not width
1	ET WrR F	**Equal tees**



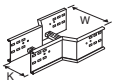
1	EUT WBrRF	**Unequal tees**
		Example : The ordering code for a hot dip galvanised unequal tee with a 300 main run (W) and a 150 branch (B) with a 600R radius : EUT 300 150 600R G



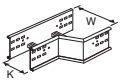
		4 way crosspieces
1	EX WrRF	Crosspeices in larger width/ radius combinations are supplied in two indentical halves with fastenings



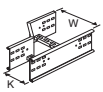
1	ESR WKF	**Straight reducers**



1	ELR WKF	**Offset reducers – left hand**



1	ERR WKF	**Offset reducers – right hand**



Key : selecting extra heavy duty (Emerald) fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 150, 300, 450, 600, 750, 900
A = Angle (°) : 90 or 45
B = Branch width (mm) : 150, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised) S (stainless steel)
K = Narrowed width when using a reducer (mm) : 150, 300, 450, 600, 750 r = Radius (mm) : 300, 600

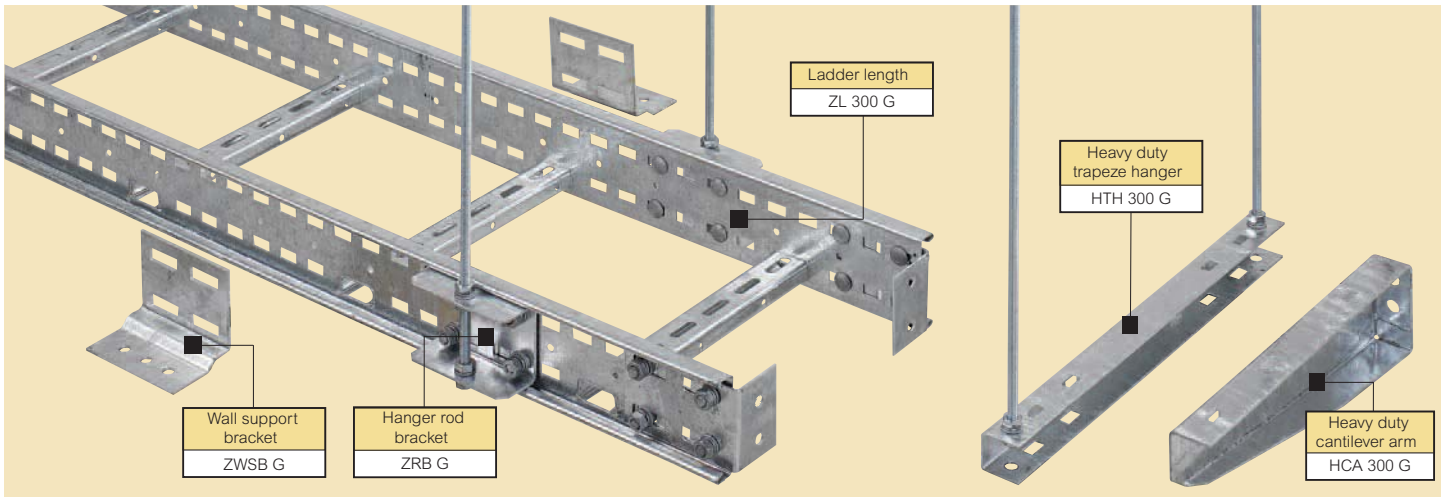


450, 750, 900 mm widths and 450, 750, 900 mm radii available to special order. 30° and 60° bends and risers and unequal tees available to special order. Other rung configurations available

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable ladder systems
supports



Dimensions and technical information (p. 231)

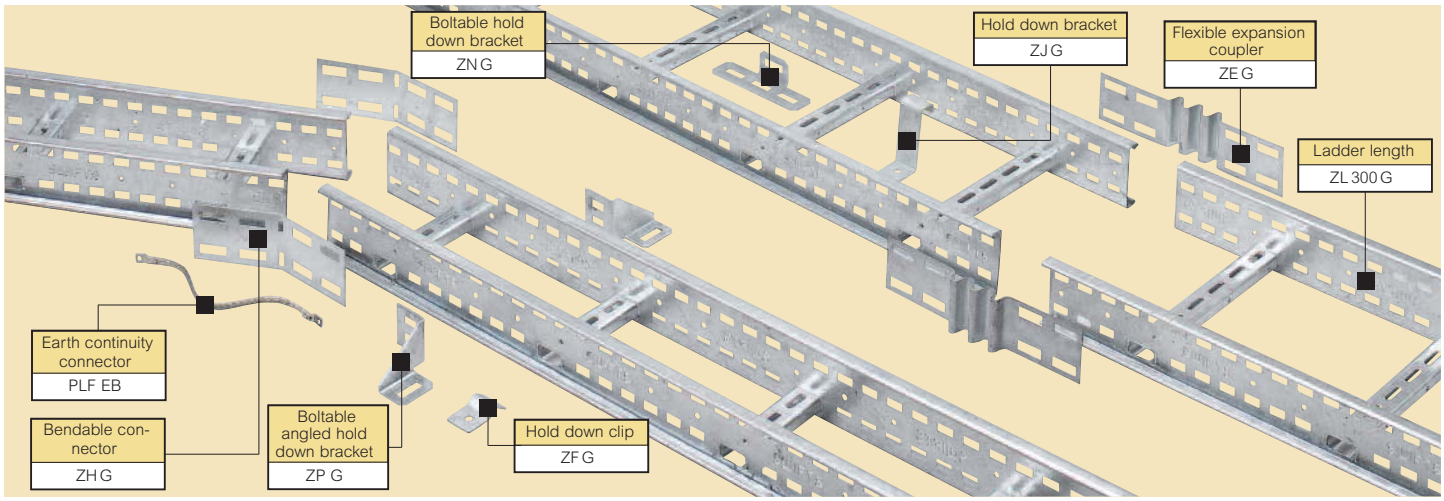
Pack	Cat. Nos.	Supports
		For use with light duty (Opal), general purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald) ladder
		Heavy duty cantilever arms
1	HCA W F	Supplied singly without fastenings Use to fit horizontal runs of ladder to flat surfaces and Swiftrack channel All arms have slots in top flanges to accept ladder hold down brackets For light duty (Opal) ladder, use light duty cantilever arms, (see p. 245)
		Heavy duty trapeze hangers
1	HTH W F	Supplied singly without fastenings Support horizontal runs of ladder from overhead structure Use M12 threaded rods For light duty (Opal) ladder use light duty trapeze hangers, (see p. 245)
		Hanger rod brackets
		When hanger rod brackets are fitted to ladder, covers can not be used Supplied in pairs with bracket to ladder fastenings Support horizontal runs of ladder from overhead structure Use M10 threaded rods, (see p. 247)
1	ORB F	Light duty (Opal)
1	ZRB F	General purpose (Topaz)
1	PRB F	Heavy duty (Sapphire)
1	ERB F	Extra heavy duty (Emerald)

Pack	Cat. Nos	Supports (continued)
		Wall support brackets
		Supplied in pairs with bracket to ladder fastenings Fit horizontal or vertical runs of ladder to vertical surfaces and Swiftrack channel
1	ZWSB F	General purpose (Topaz)
1	PWSB F	Heavy duty (Sapphire)
1	EWSB F	Extra heavy duty (Emerald)
		90° end connectors
		Supplied in pairs with bracket to ladder fastening Fits ends of ladder to vertical surfaces
1	OB F	Light duty (Opal)
1	ZB F	General purpose (Topaz)
1	PB F	Heavy duty (Sapphire)
1	EB F	Extra heavy duty (Emerald)

Key : selecting light duty (Opal), general purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald) supports. Replace the letters shown in red with your choice from the following options :
W = Widths : 150, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised) S (stainless steel), E (plastic coated)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable ladder systems
ancillary items



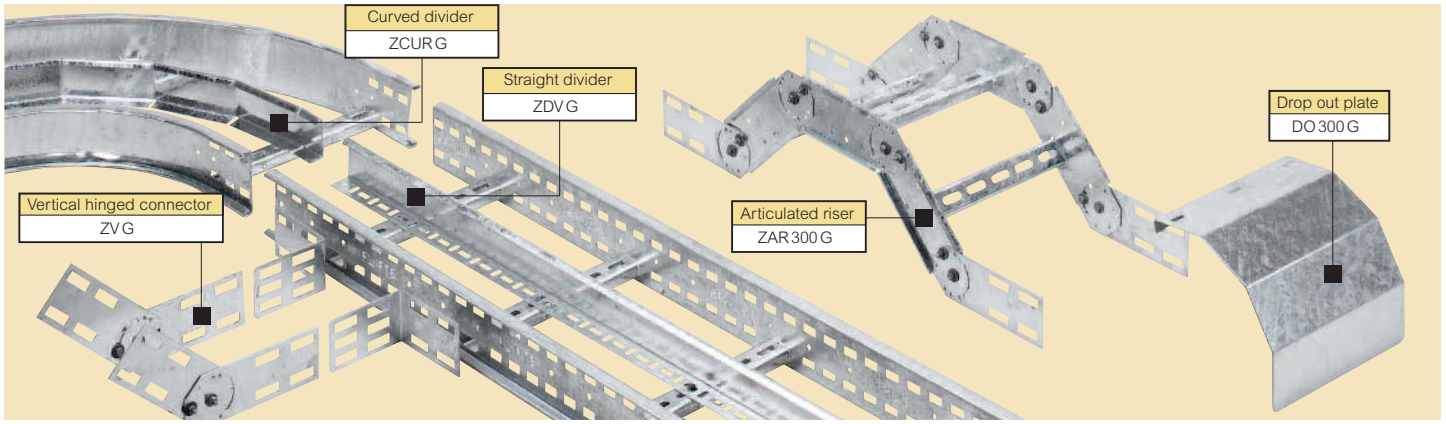
Dimensions and technical information (p. 232–233)

Pack	Cat. Nos.	Ancillary items
		Bendable connectors
		Supplied in pairs with fastenings For fabricating accessories on site to make up bends, reducers and compensate for misalignment of straight lengths
1	OH F	Light duty (Opal)
1	ZH F	General purpose (Topaz)
1	PH F	Heavy duty (Sapphire)
1	EH F	Extra heavy duty (Emerald)
		Flexible expansion couplers
		Supplied in pairs with fastenings Provide a semi-flexible joint to compensate for relative movement when spanning separate structures or changes in ladder lengths due to temperature variation
1	OE F	Light duty (Opal)
1	ZE F	General purpose (Topaz)
1	PE F	Heavy duty (Sapphire)
1	EE F	Extra heavy duty (Emerald)
		Earth continuity connectors
20	PTFEB	Light duty (Opal) Use M6 x 12 mm roofing nuts and bolts Conductor area : 4 mm²
10	PLFEB	General purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald) M6 brass fastenings included in pack Copper braid and copper lugs both in electrotinned finish Conductor area : 16 mm²

Pack	Cat. Nos.	Ancillary items (continued)
		Hold down clip
		Supplied singly without fastenings Fits ladder to flat surfaces, Swiftrack channel or heavy duty trapeze hangers which have slots in the top flange to accept fastenings
1	OF F	Light duty (Opal)
1	ZF F	General purpose (Topaz)
1	PF F	Heavy duty (Sapphire)
1	EF F	Extra heavy duty (Emerald)
		Hold down bracket
		Supplied singly without fastenings Fits ladder to flat surfaces, Swiftrack channel, cantilever arms or heavy duty trapeze hangers which have slots in the top flange to accept fastenings
1	OJ F	Light duty (Opal)
1	ZJ F	General purpose (Topaz)
1	PJ F	Heavy duty (Sapphire)
1	EJ F	Extra heavy duty (Emerald)
		Boltable hold down bracket
		Supplied singly with bracket to ladder fastening Fits ladder to Swiftrack channel in fabricated steel support structure Boltable hold down brackets for light duty (Opal) are not available
1	ZN F	General purpose (Topaz)
1	PN F	Heavy duty (Sapphire)
1	EN F	Extra heavy duty (Emerald)
		Boltable angled hold down brackets
		Supplied in handed pairs with bracket to ladder fastening Fits ladder to heavy duty cantilever arms and trapeze hangers which have slots in the side flange to accept fastenings Boltable angled hold down brackets for light duty (Opal) are not available
1	ZP F	General purpose (Topaz)
1	PP F	Heavy duty (Sapphire)
1	EP F	Extra heavy duty (Emerald)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable ladder systems
ancillary items (continued)



Dimensions and technical information (p. 233–234)

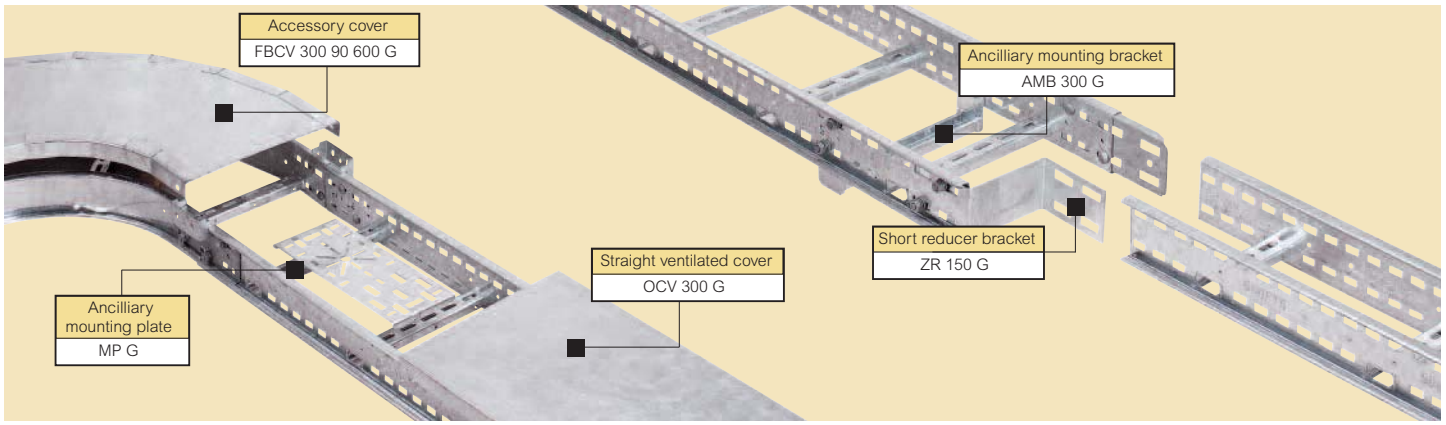
Pack	Cat. Nos.	Ancillary items (continued)
		Straight dividers – 3·0 m
		Supplied with fastenings
1	ZDV F	General purpose (Topaz)
1	PDV F	Heavy duty (Sapphire)
1	EDV F	Extra heavy duty (Emerald)
		Curved dividers – 1·0 m
		Supplied with fastenings Drill on site to suit rung position
1	ZCUR F	General purpose (Topaz)
1	PCUR F	Heavy duty (Sapphire)
1	ECUR F	Extra heavy duty (Emerald)
		Vertical hinged connectors
		Supplied in sets comprising four plates and fastenings Use with straight lengths to form risers or solve minor misalignment problems on site When used with tee bracket, vertical hinged connectors can offset tee branch
1	ZV F	General purpose (Topaz)
1	PV F	Heavy duty (Sapphire)
1	EV F	Extra heavy duty (Emerald)
		Articulated risers
		Set comprises three ladder sections and the necessary vertical hinged connectors with fastenings Use to form risers or solve most misalignment problems on site
1	ZAR W F	General purpose (Topaz)
1	PAR W F	Heavy duty (Sapphire)
1	EAR W F	Extra heavy duty (Emerald)

Pack	Cat. Nos.	Ancillary items (continued)
		Dropout plate
		Supplied with fastenings Use to provide local support for cables as they exit a cable ladder run between rungs
1	DO W F	All ladder types
		Rail-to-rail dropout brackets
		Supplied in pairs with fastenings Use to attach a vertical run of ladder or tray beneath a horizontal main ladder run
1	M F	All except light duty (Opal)
		For ladder to ladder connection
		or
		Tray to ladder connection

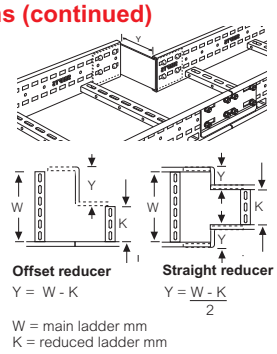
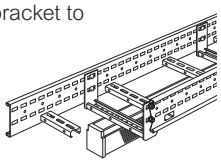
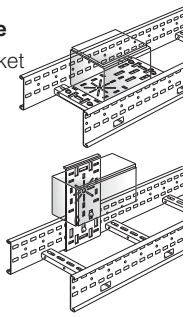
Key : selecting ancilliary items. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 100, 150, 225, 300, 450, 600, 750, 900
Note : see p. 212-215 for specific width and finish options

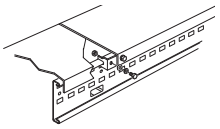
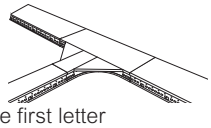
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

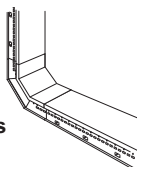
Swifts® cable ladder systems
ancillary items (continued) and covers

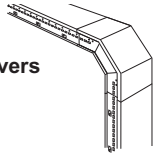


Dimensions and technical information (p. 234–235)

Pack	Cat. Nos.	Ancillary items (continued)
		Short reducer brackets Supplied singly with fastenings Use to form a reducer on site Straight reducer – use in pairs Offset reducer – use singly with straight coupler  **Offset reducer** Y = W - K **Straight reducer** Y = (W - K) / 2 W = main ladder mm K = reduced ladder mm Short reducer brackets for light duty (Opal) are not available To calculate (Y) for straight reducers and offset reducers (see p. 234)
1	ZRYF	General purpose (Topaz)
1	PRYF	Heavy duty (Sapphire)
1	ERYF	Extra heavy duty (Emerald)
		Ancillary mounting bracket Supplied singly with bracket to ladder fastenings
1	OAMBWF	Light duty (Opal)
1	AMBWF	All except light duty (Opal)
		
		Ancillary mounting plate Supplied singly with bracket to ladder fastenings
1	MPF	All ladder types
		For rung mounting or Side rail mounting – not suitable for light duty (Opal)
		

Pack	Cat. Nos.	Covers for general purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald)
		Supplied with brackets and fastenings Covers for both closed and ventilated installations are common (except when using inside and outside risers, see below) 600 mm wide and above are overlap jointed and dimpled for rigidity
1	–	**Straight covers – 3·0 m** Add CV before the width of your completed straight cover Cat. No. and remove the ref ZL, PL or EL Example : For a heavy duty (Sapphire) 300 wide hot dip galvanised Cover code = CV 300 G 
1	–	**Accessory covers (except risers)** Example : Product code = PFB 300 90 600 G Cover code = FB CV 300 90 600 G For cover code remove first letter (Z, P or E) add CV before number reference 
		Inside riser closed covers
1	ZIRCWArF	General purpose (Topaz)
1	PIRCWArF	Heavy duty (Sapphire)
1	EIRCWArF	Extra heavy duty (Emerald)
		Inside riser ventilated covers
1	ZIRVWArF	General purpose (Topaz)
1	PIRVWArF	Heavy duty (Sapphire)
1	EIRVWArF	Extra heavy duty (Emerald)
		Outside riser closed covers
1	ZORCWArF	General purpose (Topaz)
1	PORCWArF	Heavy duty (Sapphire)
1	EORCWArF	Extra heavy duty (Emerald)
		Outside riser ventilated covers
1	ZORVWArF	General purpose (Topaz)
1	PORVWArF	Heavy duty (Sapphire)
1	EORVWArF	Extra heavy duty (Emerald)





Key : selecting for ancilliary items and covers. Replace the letters shown in red with your choice from the following options :
W = Widths : 100, 150, 225, 300, 450, 600, 750, 900
Y = Ladder width reduction A = Angle (°) : 90 or 45
B = Branch width (mm) : 100, 150, 225, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised) S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 150, 300, 450, 600, 750
r = Radius (mm) : 300, 600
Note : see p. 212–215 for specific width and finish options

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable ladder systems
ancillary items



Pack	Cat. Nos.	Fasteners
		Hexagon head setscrews
		Electroplated zinc
200	SS0616	M6 x 16
200	SS0620	M6 x 20
200	SS0625	M6 x 25
200	SS0630	M6 x 30
200	SS1016	M10 x 16
200	SS1020	M10 x 20
200	SS1025	M10 x 25
200	SS1030	M10 x 30
100	SS1035	M10 x 35
100	SS1040	M10 x 40
100	SS1045	M10 x 45
100	SS1050	M10 x 50
100	SS1060	M10 x 60
100	SS1220	M12 x 20
100	SS1225	M12 x 25
100	SS1230	M12 x 30
100	SS1235	M12 x 35
100	SS1240	M12 x 40
100	SS1250	M12 x 50
		Hot dip galvanised
200	SSG0616	M6 x 16
200	SSG0620	M6 x 20
200	SSG0625	M6 x 25
200	SSG0630	M6 x 30
		Stainless steel
100	SS0620S	M6 x 20
100	SS0625S	M6 x 25
100	SS1016S	M10 x 16
100	SS1035S	M10 x 25
100	SS1040S	M10 x 40
100	SS1225S	M12 x 25
		Flat washers
		Electroplated zinc
500	FW06	M6
500	FW08	M8
500	FW10	M10
500	FW12	M12
		Stainless steel
100	FW06S	M6
100	FW08S	M8
100	FW10S	M10
100	FW12S	M12
		Shakeproof washers
		Electroplated zinc
400	SW06	M6
400	SW08	M8
400	SW10	M10
400	SW12	M12

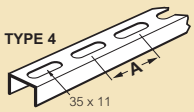
Pack	Cat. Nos.	Fasteners (continued)
		Hexagon nuts
		Electroplated zinc
500	HN06	M6
500	HN08	M8
500	HN10	M10
500	HN12	M12
		Hot dip galvanised
500	HNG06	M6
1	HNG08	M8
1	HNG10	M10
1	HNG12	M12
		Stainless steel
100	HN06S	M6
100	HN08S	M8
100	HN10S	M10
100	HN12S	M12
		Roofing nuts and bolts
		Electroplated zinc
200	RB0612	M6 x 12
200	RB0616	M6 x 16
200	RB0620	M6 x 20
200	RB0625	M6 x 25
100	RB0630	M6 x 30
100	RB0640	M6 x 40
100	RB0650	M6 x 50
		Hot dip galvanised
100	RBG0612	M6 x 12
100	RBG0616	M6 x 16
		Stainless steel
100	RB0612S	M6 x 12
100	RB0616S	M6 x 16
100	RB0620S	M6 x 20
		Threaded rods
		Electroplated zinc
1	TR06	M6 x 3 m
1	TR08	M8 x 3 m
1	TR10	M10 x 3 m
1	TR12	M12 x 3 m
		Stainless steel
1	TR06S	M6 x 3 m
1	TR08S	M8 x 3 m
1	TR10S	M10 x 3 m
1	TR12S	M12 x 3 m
		Threaded rod connectors
		Electroplated zinc
1	RC06	M6
1	RC08	M8
1	RC10	M10
1	RC12	M12

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable ladder system
dimensions – light duty (Opal)

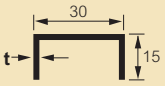
■ Rung details

Pitch chart shown below



Type 4 rung length	Rung thickness (t)
Up to 300	1·0
Above 300	1·5

ACCESSORY RUNG WIDTH	PITCH A
150	49·0
300	49·5
450	49·7



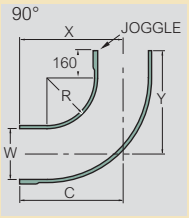
■ Coupler sets

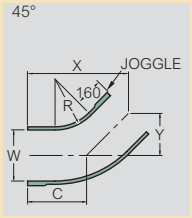
Supplied in pairs with fastenings
Required only where ladder has been cut to length
When joining a cut length to an uncut length or an accessory only one coupler is required.

■ Flat bends

To assist in the installation of a complete cable ladder run following a centre-line drawing (usually CAD generated), the following pages contain C, X, Y and length dimensions where appropriate, and also diagrams to explain the dimensions
The dimensions help to ensure that accessories are correctly positioned in line with the drawing and make it possible to accurately calculate the installed length of intermediate straight sections. This allows the sections to be cut to length and pre-assembled, making installation in elevated or restricted areas much simpler

C = length of the centre-line from each 'end' of the accessory to the point at which the centre-lines intersect

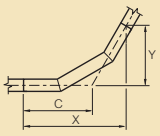


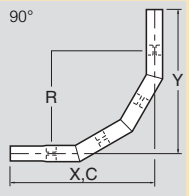


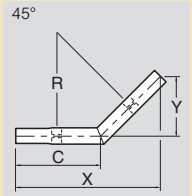
Width (W)	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
150	300	534	534	534	537	223	315
300	300	609	609	609	590	244	346
450	300	684	684	684	643	266	377

■ Risers

Dimensions shown are identical for both inside and outside risers



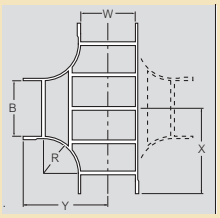




Width	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
All	300	450	450	450	443	183·5	260

All dimensions (mm)

■ Equal tees and 4 way crosspieces

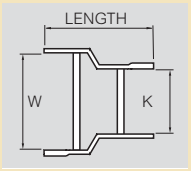


Equal tee and 4 way crosspiece

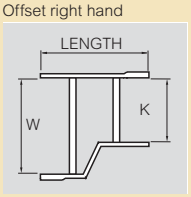
Width (B)	Radius (R)	Equal tees Width (W) X/Y
150	300	534
300	300	609
450	300	684

■ Reducers

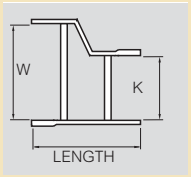
Straight



Offset right hand



Offset left hand



Width (W)	Width (K)	Straight reducer length	Offset reducer length
300	100	450	450
	150	450	450
	225	400	450
450	100	450	550
	150	450	500
	225	450	500
	300	450	450

All dimensions (mm)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

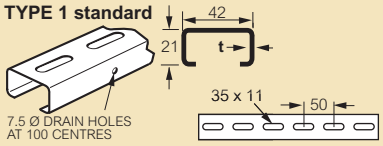
Swifts® cable ladder system

dimensions – general purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald)

■ Rung details

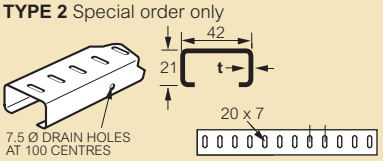
Types 2 and 3 are only available to special order
Type 3 is not available in deep galvanised finish
Types 1, 2 and 3 can be inverted and supplied in any combination to special order

TYPE 1 standard

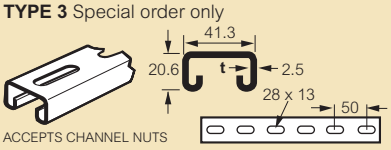


Types 1 and 2 rung length	Rung thickness (t)
Up to 600	1·5
Above 600	2·0

TYPE 2 Special order only



TYPE 3 Special order only

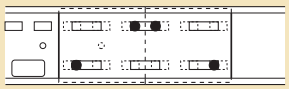


Types 3 rung length	Rung thickness (t)
150 to 900	2·5

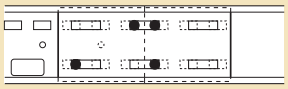
■ Coupler sets

General purpose (Topaz)
Supplied in pairs, with fastenings (4 per coupler). Use to couple straight lengths and accessories
Even when ladder is cut to length, the slots in the coupler will always align with slots in the ladder side rail
When bolting to cut ends adjust coupler to ensure 4 bolts can be inserted

Coupling details
Straight length to : straight length, risers and reducers

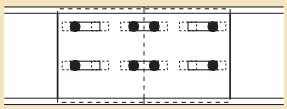


Straight length to : flat bends, tees and 4-way crosspiece



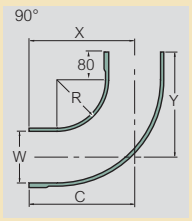
Heavy duty (Sapphire) and extra heavy duty (Emerald)
Supplied in pairs, with fastenings (8 per coupler)
Use to couple straight lengths and accessories
Even when ladder is cut to length, the slots in the coupler will always align with slots in the ladder side rail
When bolting to cut ends adjust coupler to ensure 8 bolts can be inserted

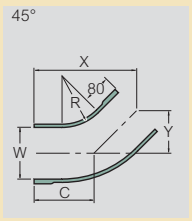
Coupling details
Straight length to : straight length and all accessories



■ Flat bends

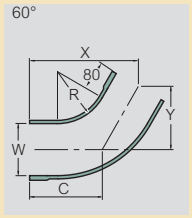
X = length of accessory from each 'end' of centre-line
Y = length from each 'end' of the accessory to the point at which the centre-lines intersect
C = length of the centre-line from each 'end' of the accessory to the point at which the centre-lines intersect

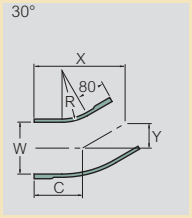




All dimensions (mm)

Note :
60° and 30° bends can be supplied to special order only



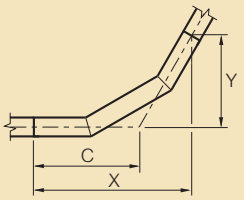


Width (W)	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
150	300	453	453	453	400	166	235
	450	603	603	603	506	210	297
	600	753	753	753	612	254	359
	750	903	903	903	719	298	42
	900	1053	1053	1053	825	342	483
300	300	528	528	528	453	188	266
	450	678	678	678	559	23	328
	600	828	828	828	665	276	390
	750	978	978	978	722	320	452
	900	1128	1128	1128	878	364	514
450	300	603	603	603	506	210	297
	450	753	753	753	612	254	359
	600	903	903	903	719	298	421
	750	1053	1053	1053	825	342	483
	900	1203	1203	1203	931	385	545
600	300	678	678	678	559	232	328
	450	828	828	828	665	276	390
	600	978	978	978	772	320	452
	750	1128	1128	1128	878	364	514
	900	1278	1278	1278	984	407	576
750	300	753	753	753	612	254	359
	450	903	903	903	719	298	421
	600	1053	1053	1053	825	342	483
	750	1203	1203	1203	931	385	545
	900	1353	1353	1353	1037	429	607
900	300	828	828	828	665	276	390
	450	978	978	978	772	320	452
	600	1128	1128	1128	878	364	514
	750	1278	1278	1278	984	407	576
	900	1428	1428	1428	1090	451	638

All dimensions (mm)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

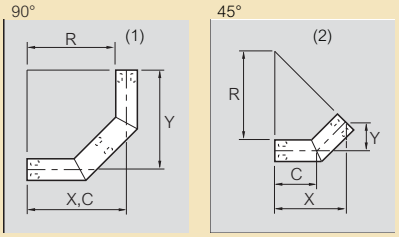
■ Risers



X = length of accessory from each 'end' of centre-line
Y = length from each 'end' of the accessory to the point at which the centre-lines intersect
C = length of the centre-line from each 'end' of the accessory to the point at which the centre-lines intersect
Dimensions shown are identical for both inside and outside risers

General purpose (Topaz)

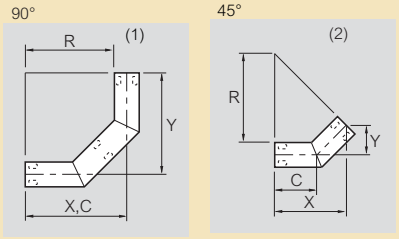
All dimensions (mm)



Width (W)	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
All	300	350	350	350	247	103	145
	450	500	500	500	354	146	207
	600	650	650	650	460	190	269
	750	800	800	800	566	234	331
	900	950	950	950	673	278	394

Heavy duty (Sapphire)

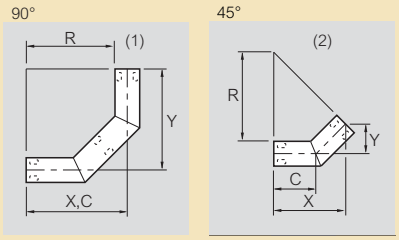
All dimensions (mm)



Width (W)	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
All	300	363	363	363	256	106	150
	450	513	513	513	362	150	212
	600	663	663	663	468	194	274
	750	813	813	813	575	238	337
	900	963	963	963	681	282	399

Extra heavy duty (Emerald)

All dimensions (mm)

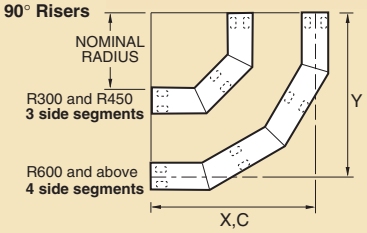


Width (W)	Radius (R)	90° X	90° Y	90° C	45° X	45° Y	45° C
All	300	375	375	375	265	110	155
	450	525	525	525	371	154	217
	600	675	675	675	477	198	280
	750	825	825	825	583	242	342
	900	975	975	975	689	286	404

All dimensions (mm)

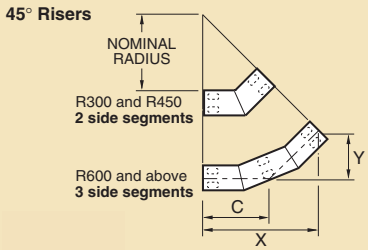
■ Risers (continued)

90° Risers



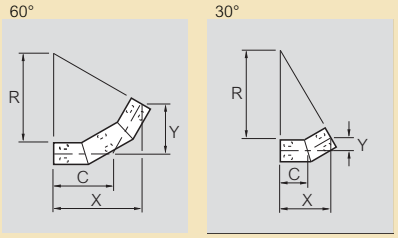
(1) 90° risers, 600R and above have 4 side segments

45° Risers



(2) 45° risers, 600R and above have 3 side segments

Note :
60° and 30° risers can be supplied to special order only



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

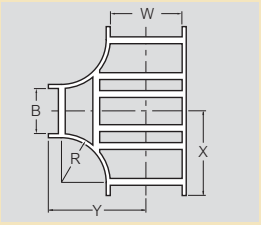
Swifts® cable ladder systems

dimensions – general purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald)

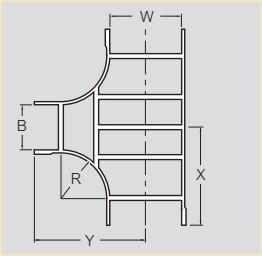
■ Tees and unequal tees

X and Y dimensions are given to assist in the installation of a complete cable ladder run following a centre-line drawing (usually CAD generated)
X = length of accessory from each 'end' of centre-line
Y = length from each 'end' of the accessory to the point at which the centre-lines intersect
For dimensions, see table below

Unequal tees



Equal tees



UNEQUAL TEES

Branch (B)	Radius (R)	Width (W) 150 X	Width (W) 300 Y	Width (W) 450 X	Width (W) 600 Y	Width (W) 750 X	Width (W) 900 Y	Width (W) X	Width (W) Y	Width (W) X	Width (W) Y	Width (W) X	Width (W) Y
150	300	–	–	453	528	453	603	453	678	453	753	453	828
	450	–	–	603	678	603	753	603	828	603	903	603	978
	600	–	–	753	828	753	903	753	978	753	1053	753	1128
	750(1)	–	–	903	978	903	1053	903	1128	903	1203	903	1278
	900(1)	–	–	1053	1128	1053	1203	1053	1278	1053	1353	1053	1428
300	300	528	453	–	–	528	603	528	678	528	753	528	828
	450	678	603	–	–	678	753	678	828	678	903	678	978
	600	828	753	–	–	828	903	828	978	828	1053	828	1128
	750(1)	978	903	–	–	978	1053	978	1128	978	1203	978	1278
	900(1)	1128	1053	–	–	1128	1203	1128	1278	1128	1353	1128	1428
450	300	603	453	603	528	–	–	603	678	603	753	603	828
	450	753	603	753	678	–	–	753	828	753	903	753	978
	600(1)	903	753	903	828	–	–	903	978	903	1053	903	1128
	750(1)	1053	903	1053	978	–	–	1053	1128	1053	1203	1053	1278
	900(1)	1203	1053	1203	1128	–	–	1203	1278	1203	1353	1203	1428
600	300	678	453	678	528	678	603	–	–	678	753	678	828
	450	828	603	828	678	828	753	–	–	828	903	828	978
	600(1)	978	753	978	828	978	903	–	–	978	1053	978	1128
	750(1)	1128	903	1128	978	1128	1053	–	–	1128	1203	1128	1278
	900(1)	1278	1053	1278	1128	1278	1203	–	–	1278	1353	1278	1428
750	300	753	453	753	528	753	602	753	678	–	–	753	828
	450(1)	903	603	903	678	903	753	903	828	–	–	903	978
	600(1)	1053	753	1053	828	1053	903	1053	978	–	–	1053	1128
	750(1)	1203	903	1203	978	1203	1053	1203	1128	–	–	1203	1278
	900(1)	1353	1053	1353	1128	1353	1203	1353	1278	–	–	1353	1428
900	300	828	453	828	528	828	603	828	678	828	753	–	–
	450(1)	978	603	978	678	978	753	978	828	978	903	–	–
	600(1)	1128	753	1128	828	1128	903	1128	978	1128	1053	–	–
	750(1)	1278	903	1278	978	1278	1053	1278	1128	1278	1203	–	–
	900(1)	1428	1053	1428	1128	1428	1203	1428	1278	1428	1353	–	–

EQUAL TEES

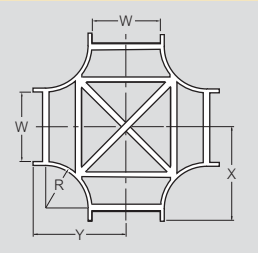
Width (W)	Radius (R)	X/Y
150	300	454
	450	604
	600	754
	750(1)	904
	900(1)	1054
300	300	529
	450	679
	600	829
	750(1)	979
	900(1)	1129
450	300	604
	450	754
	600(1)	904
	750(1)	1054
	900(1)	1204
600	300	679
	450	829
	600(1)	979
	750(1)	1129
	900(1)	1279
750	300	754
	450(1)	904
	600(1)	1054
	750(1)	1204
	900(1)	1354
900	300	829
	450(1)	979
	600(1)	1129
	750(1)	1279
	900(1)	1429

All dimensions (mm)

(1) Supplied in 2 parts for assembly on site

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ 4 way crosspieces



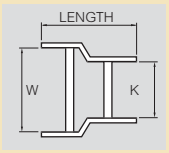
CROSSPIECE		
Width (W)	Radius (R)	X/Y
150	300	454
	450	604
	600	754
	750(1)	904
	900(1)	1054
300	300	529
	450	679
	600	829
	750(1)	979
	900(1)	1129
450	300	604
	450	754
	600(1)	904
	750(1)	1054
	900(1)	1204
600	300	679
	450	829
	600(1)	979
	750(1)	1129
	900(1)	1279
750	300	754
	450(1)	904
	600(1)	1054
	750(1)	1204
	900(1)	1354
900	300	829
	450(1)	979
	600(1)	1129
	750(1)	1279
	900(1)	1429

(1) Supplied in 2 parts for assembly on site

All dimensions (mm)

■ Reducers

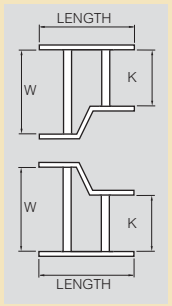
Straight



Offset

RH – right hand

LH – left hand



Width (W)	Width (K)	Straight length	Offset length
300	150	450	450
450	150	450	500
	300	450	450
600	150	500	550
	300	450	500
	450	450	450
750	150	500	600
	300	500	550
	450	450	500
	600	450	450
900	150	550	650
	300	500	600
	450	500	550
	600	450	500
	750	450	450

All dimensions (mm)

When viewing reducer from the widest width end the cranked side shown indicates a RH or LH

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

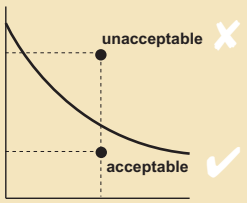
■ Loading graphs

The loads shown on all graphs are the safe recommended maximum loads that can be applied and must include wind, snow and any other external forces in addition to the cable load

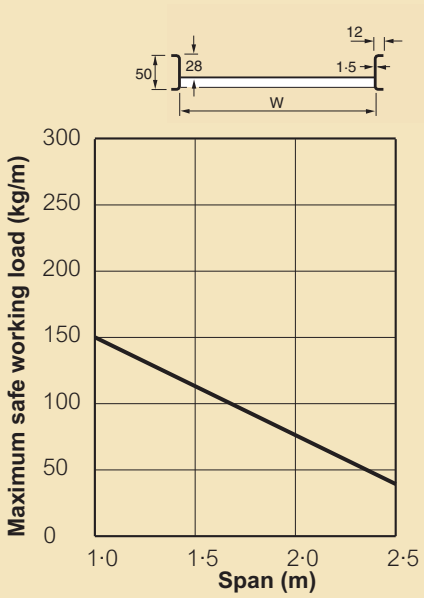
The graphs show the maximum load for ladder installed at a support spacing within its recommended range

When the graph line is above the intersection of the required load and span lines, the support equipment is suitable for use within those load and span conditions

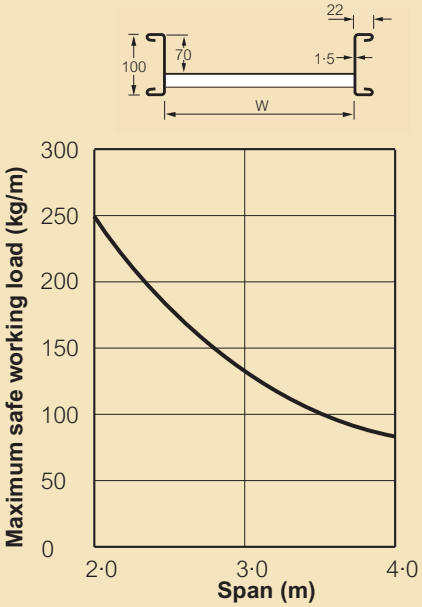
Example



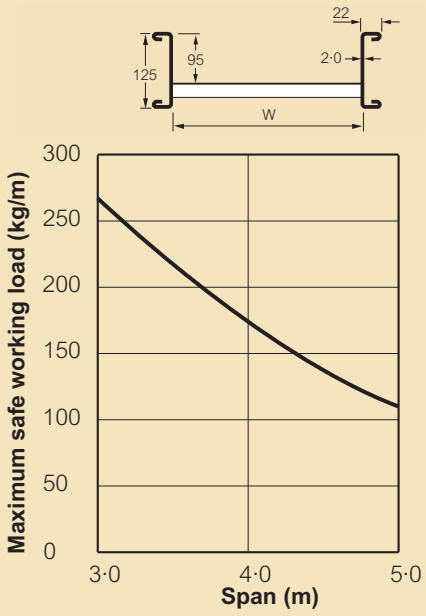
Light duty (Opal)



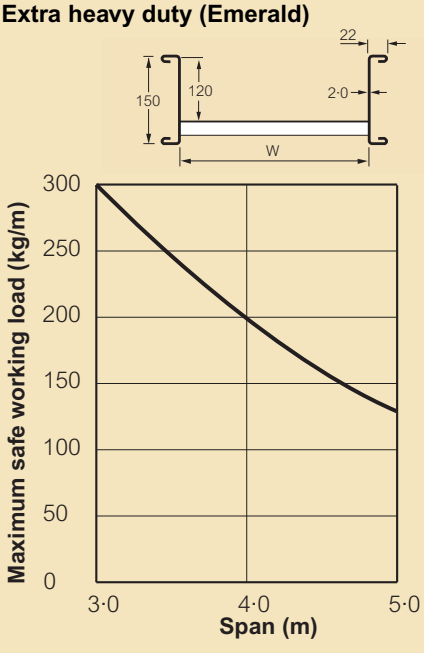
General purpose (Topaz)



Heavy duty (Sapphire)



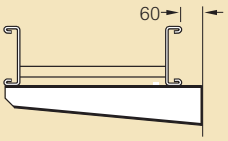
Extra heavy duty (Emerald)



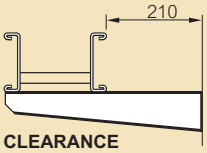
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Heavy duty cantilever arms

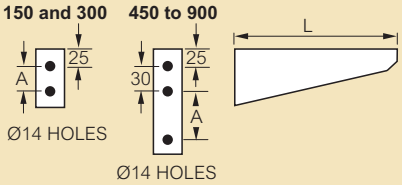
Supplied singly without fastenings
Fit horizontal runs of ladder to flat surfaces and Swiftrack channel
All arms have slots in top and side flanges to accept brackets
Use hold down brackets



NORMAL INSTALLATION
Arm = ladder width



CLEARANCE INSTALLATION
Arm = 1 size greater than ladder width

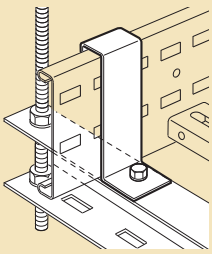


Cat. Nos.	A	L	SWL, kgf(1) surface(2)	Swiftrack
HCA 150 F	30	250	300	250
HCA 300 F	30	400	350	250
HCA 450 F	45	550	400	300
HCA 600 F	95	700	500	350
HCA 750 F	145	850	600	400
HCA 900 F	195	1000	700	450

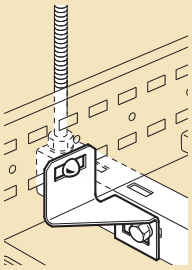
(1) Per cantilever arm for load uniformly distributed across the complete arm, when ladder fixed to arm using Swifts' hold down brackets
Safety factor : 2
(2) Solid surface is RSJ or concrete

■ Heavy duty trapeze hangers

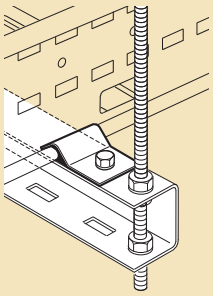
Supplied singly without fastenings
Support horizontal runs of ladder from overhead structure
Use M12 threaded rods



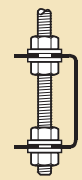
Hold down bracket



Boltable angled hold down bracket



Hold down clip



TYPE 1

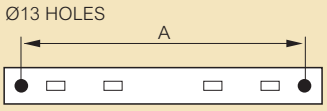


TYPE 2



TYPE 3

Trapeze hanger to threaded rod fixing



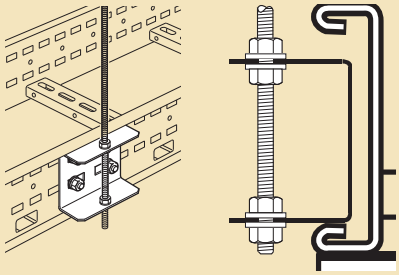
Cat. Nos.	A	SWL, kgf(3) Type 1	Type 2	Type 3
HTH 150 F	310	400	240	120
HTH 300 F	460	400	240	120
HTH 450 F	610	400	240	120
HTH 600 F	760	500	300	150
HTH 750 F	910	500	300	150
HTH 900 F	1060	500	300	150

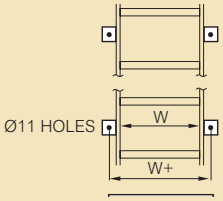
(3) Per trapeze hanger for load uniformly distributed across complete hanger. Safety factor : 2

All dimensions (mm)

■ Hanger rod brackets

Supplied in pairs with bracket to ladder fastenings
Support horizontal runs of ladder from overhead structure
Use M10 threaded rods



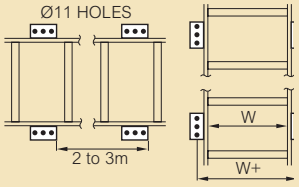


ORB	W+46
ZRB	W+66
PRB	W+66
ERB	W+66

Safe working loads
Contact us on 0845 605 4333

■ Wall support brackets

Supplied in pairs with bracket to ladder fastenings
Fit horizontal or vertical runs of ladder to vertical surfaces and Swiftrack channel



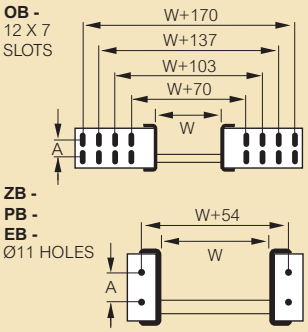
ZWSB	W+106
PWSB	W+106

Safe working loads
Contact us on 0845 605 4333

■ 90° end connectors

Supplied in pairs with bracket to ladder fastenings
Fit ends of ladder to vertical surfaces

	A
OB F	16
ZB F	50
PB F	75
EB F	75

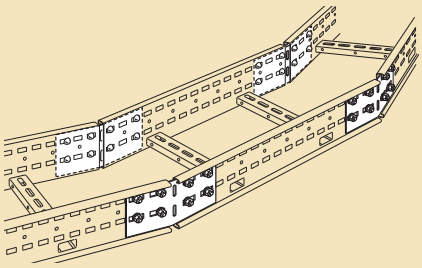


All dimensions (mm)

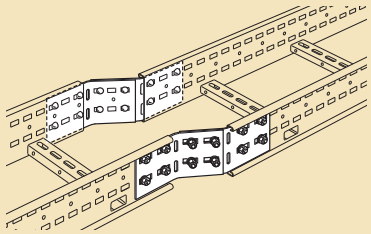
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Bendable connectors

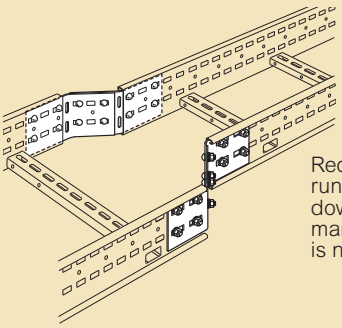
Supplied in pairs with fastenings
Light duty (Opal) bendable connectors must be fitted to the inside of the ladder side rails



Fabricating accessories on site from cut lengths of cable ladder, e.g. a long articulated bend



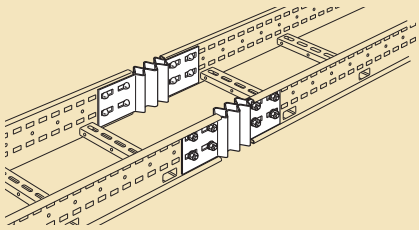
Correcting minor mis-alignment problems



Reducing width of a run to the next size down when a properly manufactured reducer is not available

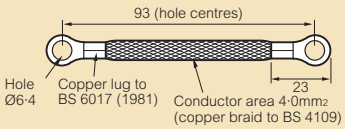
■ Flexible expansion couplers

Supplied in pairs with fastenings
Provide a semi-flexible joint to compensate for relative movement when spanning separate structures or changes in ladder lengths due to temperature variation.
Mounting pairs of couplers back-to-back, except for light duty (Opal), will increase the stiffness of each joint

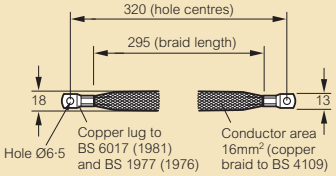


■ Earth continuity connectors

Light duty (Opal)
Use M6 fastenings
Copper braid and copper lugs, both in electrotinned finish



General purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald)
M6 brass fastenings included in pack
Copper braid and copper lugs, both in electrotinned finish



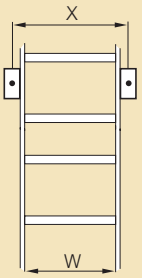
All dimensions (mm)

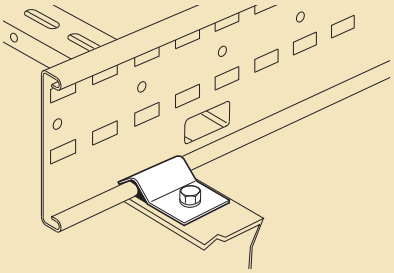
■ Hold down clip

Fits ladder to flat surfaces, Swiftrack channel or heavy duty trapeze hangers which have slots in the top flange to accept fastenings
Supplied singly without fastenings
OF F use M6; ZF F, PF F, EF F use M10
Insulated hold down clips are available for stainless steel ladder, contact us on 0845 605 4333
All Swifts' supports are provided with correctly positioned fixing holes to accept hold down clips without drilling. The table below gives the fixing hole spacing required when attaching hold down clips to other supports

Cat. Nos.	Centre distance between fixing holes X
OF F	W + 35
ZF F	W + 95
PF F	W + 95
EF F	W + 95

W = ladder width



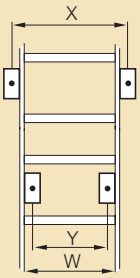


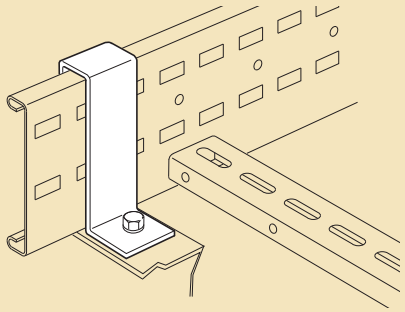
■ Hold down bracket

Fits ladder to flat surfaces, Swiftrack channel, cantilever arms or heavy duty trapeze hangers which have slots in the top flange to accept fastenings
Supplied singly without fastenings
Insulated hold down brackets are available for stainless steel ladder, contact us on 0845 605 4333
All Swifts' supports are provided with correctly positioned fixing holes to accept hold down brackets without drilling. The table below gives the fixing hole spacing required when attaching hold down bracket to other supports

Cat. Nos.	Centre distance between fixing holes inside ladder Y	outside ladder X
OJ F	W – 38	W + 62
ZJ F	W – 44	W + 80
PJ F	W – 44	W + 80
EJ F	W – 44	W + 80

W = ladder width



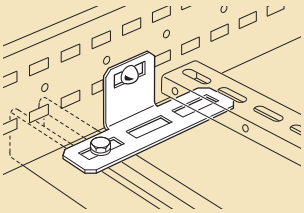


All dimensions (mm)

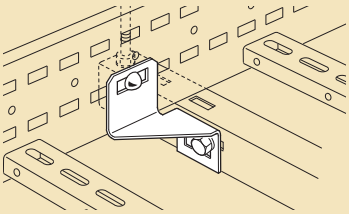
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Boltable brackets

Boltable hold down bracket
Supplied singly with bracket to ladder fastening
Fit ladder to Swiftrack channel in fabricated steel support structure
Bracket to support fastening : M12

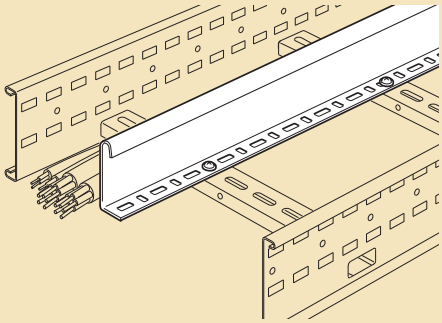


Boltable angled hold down brackets
Supplied in handed pairs with bracket to ladder fastening
Fit ladder to heavy duty cantilever arms and trapeze hangers which have slots in the side flange to accept fastenings
Bracket to support fastening : M10

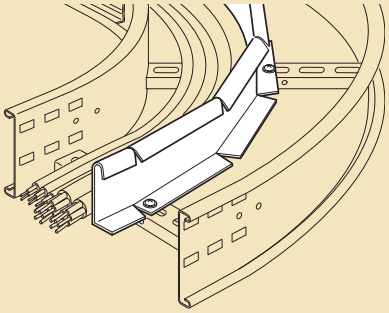


■ Dividers

Straight divider
Supplied with fastenings

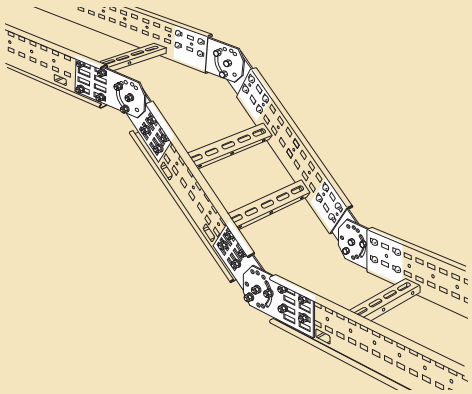


Curved divider
Supplied with fastenings
Drill on site to fit



■ Vertical hinged connectors

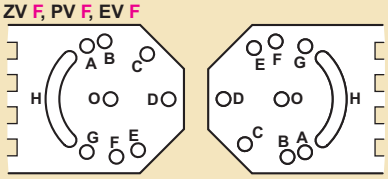
Supplied in sets comprising four plates and fastenings
Use with straight lengths to form risers or solve minor misalignment problems on site



■ Vertical hinged connectors

Connect together to form pre-set angles or pre-assemble for adjustment on site using the holes / slots given below

ZV F, PV F, EV F

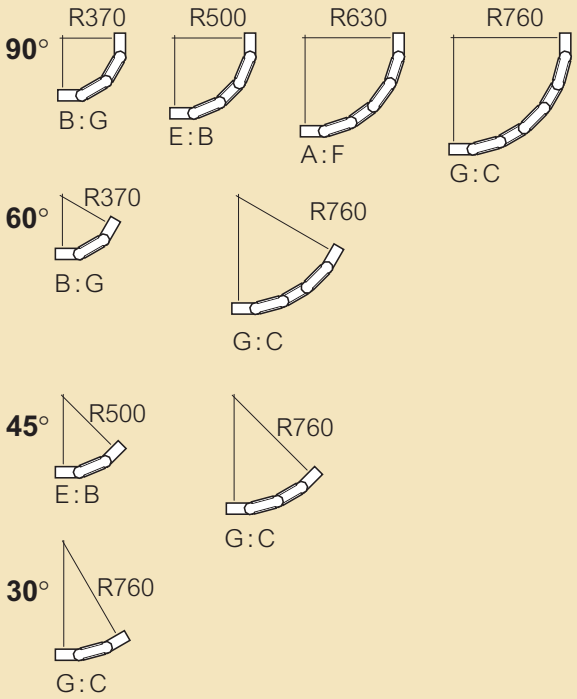


Cat. Nos.	15°	18°	22·5°	30°	45°
ZV F, PV F, EV F	G:C	A:F	E:B	B:G	F:C

■ Articulated risers

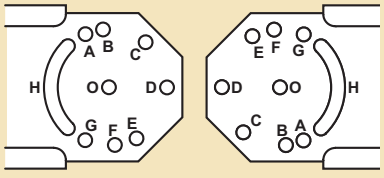
Set comprises three ladder sections and the necessary vertical hinged connectors with fastenings
Use to form risers or solve most misalignment problems on site

Sections required for a given angle
R = radius



Connect together to form pre-set angles or pre-assembled for adjustment on site using the holes / slots shown

ZAR F, PAR F, EAR F

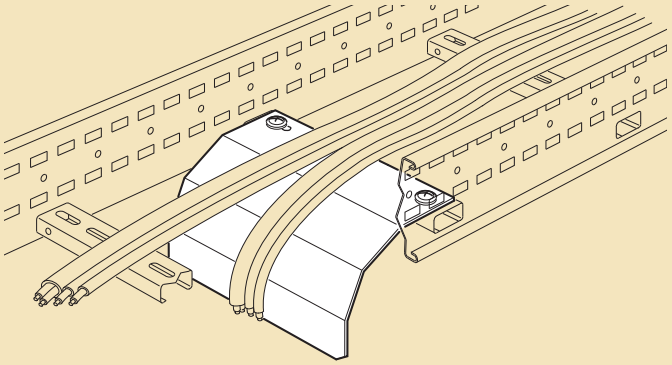


Cat. Nos.	15°	18°	22·5°	30°	45°
ZAR F, PAR F, EAR F	G:C	A:F	E:B	B:G	F:C

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

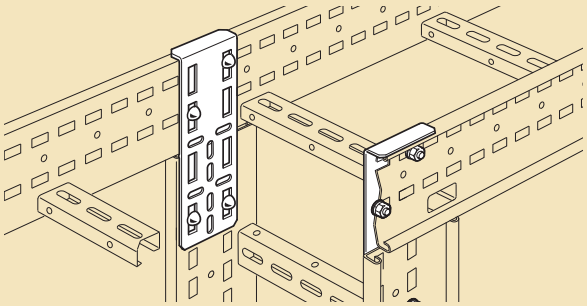
■ Dropout plate

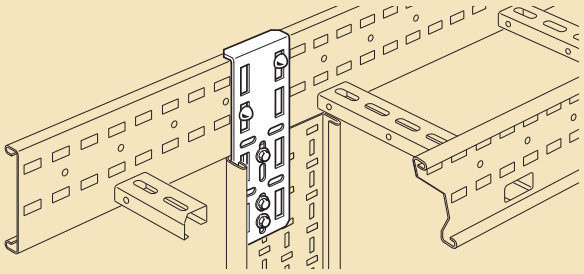
Supplied with fastenings
Use to provide local support for cables as they exit a cable ladder run between rungs



■ Rail-to-rail dropout brackets

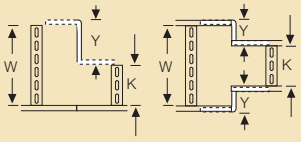
Supplied in pairs with fastenings
Use to attach a vertical run of ladder or tray beneath a horizontal main ladder run





■ Short reducer brackets

Supplied singly with fastenings
Use to form a reducer on site
Straight reducer
– use in pairs
Offset reducer
– use singly with straight coupler



Use the following calculations to establish ladder width reduction
This measurement (Y), can then be inserted into relevant Cat. Nos. to show bracket size required (see p. 223)

Offset reducer
$Y = W - K$

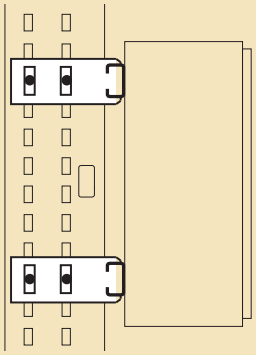
Straight reducer
$Y = \frac{W - K}{2}$

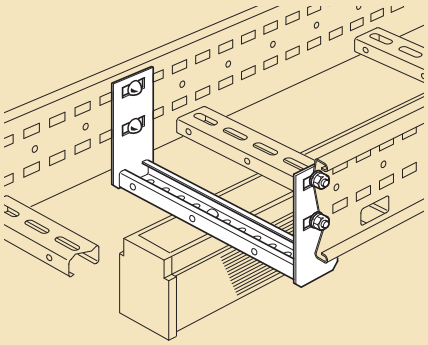
W = main ladder mm
K = reduced ladder mm

Short reducer brackets can also be used to convert an equal tee into an unequal tee

■ Ancillary mounting bracket

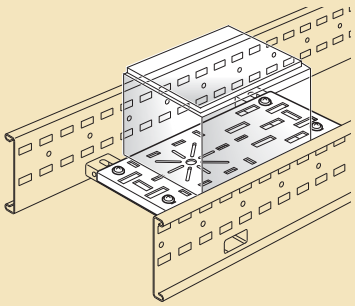
Supplied singly with bracket to ladder fastening
Slots for M6 fastenings are provided for mounting ancillary items



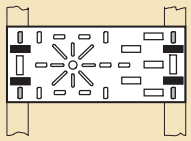


■ Ancillary mounting plate

Supplied singly with plate to ladder fastenings
Use to mount small lightweight items of ancillary equipment to cable ladder runs



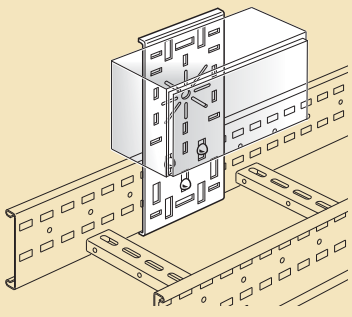
RUNG MOUNTING
(Plan view)



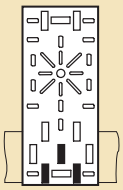
with type 1 rung

with type 2 rung

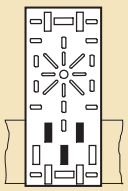
General purpose (Topaz)



SIDE RAIL MOUNTING
(Side view)



General purpose (Topaz)



Heavy duty (Sapphire)
Extra heavy duty (Emerald)

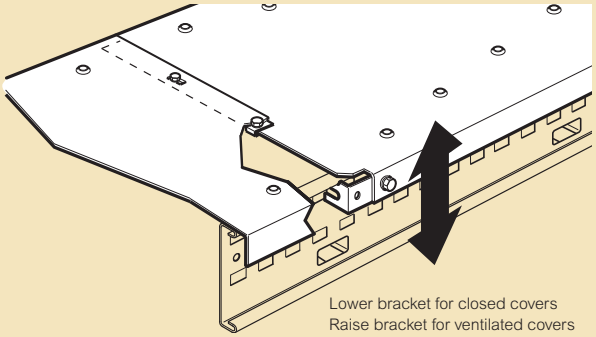
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Covers for Topaz, Sapphire and Emerald ladder

General purpose (Topaz), heavy duty (Sapphire) and extra heavy duty (Emerald) use the same covers and closed/ventilated brackets

Cover bracket is adjustable for closed ventilated covers
600 mm wide covers and above are overlap jointed and dimpled for rigidity

Note :
Covers for light duty (Opal) ladder are available only to special order
Contact us on 0845 605 4333

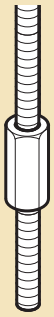


Lower bracket for closed covers
Raise bracket for ventilated covers

■ Threaded rods

Threaded rod connectors

Cat. Nos.	Size
RC06	M6
RC08	M8
RC10	M10
RC12	M12



Maximum load for connector

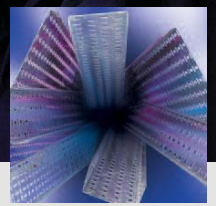
Cat. Nos.	Size	SWL (kgf)
TR06	M6	91
TR08	M8	165
TR10	M10	262
TR12	M12	381

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The innovative, quick-fit choice

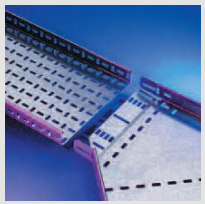
The distinctive slot pattern on Swifts cable tray systems provides installers with total flexibility for the positioning of nuts and bolts, cable ties and all ancillary items.







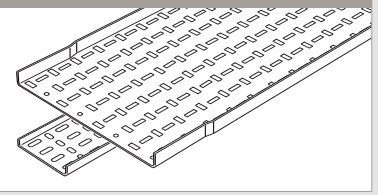




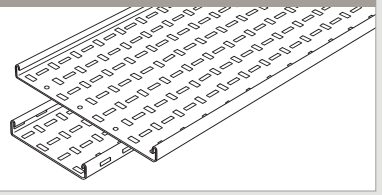
Available in three types, from light through to heavy duty, each system is supported by a fully integrated range of time saving fixings and fittings.

- Quick-fit couplers available for straight lengths on MRF and SRF tray systems
- Unique adjustable bends
- All tray fittings have an integral coupler system to save time and money

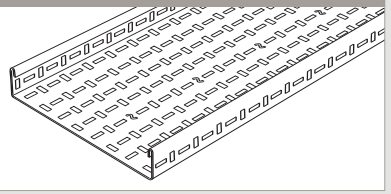
SSL - LIGHT DUTY



MRF - MEDIUM DUTY RETURN FLANGE



SRF - HEAVY DUTY RETURN FLANGE



■ Ordering Information

Cat. Nos. are generated by replacing the red letters in the product code with the relevant width, angle, branch and finish (where needed) Examples are provided below and in the selection charts in the following pages

SS light duty
Standard widths :
50, 75, 100, 150, 225 and 300
Key to selecting SS light duty fittings
(see selection chart p. 238)
Examples :
For a hot dip galvanised SS straight length, 300 mm wide :
Product code = SSL 300 F – Cat. No. = SSL 300 G
For a hot dip galvanised SS 45° flat bend, 300 mm wide :
Product code = SSB 300 A F – Cat. No. = SSB 300 45 G
Note :
All SS straight lengths and accessories have integral couplings, no additional couplers are required
When placing orders for 50 to 225 mm widths in S finish, please contact us on 0845 605 4333

MRF general purpose
Standard widths :
50, 75, 100, 150, 225, 300, 450 and 600 mm
Key to selecting MRF general purpose fittings
(see selection chart p. 238)
Examples :
For a hot dip galvanised MRF straight length, 600 mm wide :
Product code = MRFL 600 F – Cat. No. = MRFL 600 G
For a hot dip galvanised MRF 45° flat bend, 600 mm wide :
Product code = MRFB 600 A F – Cat. No. = MRFB 600 45 G
Note :
Widths up to 150 mm wide in G and 225 mm wide in PG finishes have slots in side flanges. MRF 50 mm wide straight lengths and accessories are not available in D or S finishes

SRF heavy duty
Standard widths :
75, 100, 150, 225, 300, 450, 600, 750 and 900 mm
Key to selecting SRF heavy duty fittings
(see selection chart p. 240)
Examples :
For a hot dip galvanised SRF straight length, 600 mm wide :
Product code = SRFL 600 F – Cat. No. = SRFL 600 G
For a hot dip galvanised SRF 45° flat bend, 600 mm wide :
Product code = SRFB 600 A F – Cat. No. = SRFB 600 45 G

Range	Finishes available				
SSL	G	PG	D	S	–
MRF	G	PG	D	S	E
SRF	G	PG	D	S	E

See below for finish details

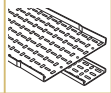
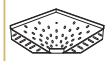
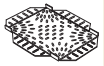
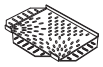
FINISHES
Standard Stocked Finish :
G Hot dip galvanised after manufacture to BS EN ISO 1461
PG Pre-galvanised steel to BS EN 10327 grade DX51D
Additional Finishes to special order :
D Deep galvanised steel made from BS EN 10025-5 grade S355JOWP (finish with extra zinc coating)
S Stainless steel to BS EN 10088 Number 1·4401 finish 2B (equivalent to 316S31)
E Plastic coated (or to customer's specification)

Sheared steel (particularly stainless steel) does have relatively sharp edges and protective gloves must be worn during handling

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable tray systems straight lengths and fittings

SS light duty and MRF general purpose

Tray width (mm)		TRAY	FITTINGS								FITTINGS	
		Straight lengths (3 m) F = finish	Coupler sets F = finish	Flat bends A = angle F = finish	Adjustable bends F = finish	Inside risers F = finish	Outside risers F = finish	Adjustable risers F = finish	4 way crosspieces F = finish		Equal tees F = finish	Straight reducers K = reduced width F = finish
			No separate couplers are needed, see p. 248		No adjustable bends on SS light duty							
SS LIGHT DUTY	50	SSL 50 F	–	SSB 50 A F	–	SSIR 50 F	SSOR 50 F	SSAR 50 F	SSX 50 F		SST 50 F	–
	75	SSL 75 F	–	SSB 75 A F	–	SSIR 75 F	SSOR 75 F	SSAR 75 F	SSX 75 F		SST 75 F	SSR 75 K F
	100	SSL 100 F	–	SSB 100 A F	–	SSIR 100 F	SSOR 100 F	SSAR 100 F	SSX 100 F		SST 100 F	SSR 100 K F
	150	SSL 150 F	–	SSB 150 A F	–	SSIR 150 F	SSOR 150 F	SSAR 150 F	SSX 150 F		SST 150 F	SSR 150 K F
	225	SSL 225 F	–	SSB 225 A F	–	SSIR 225 F	SSOR 225 F	SSAR 225 F	SSX 225 F		SST 225 F	SSR 225 K F
	300	SSL 300 F	–	SSB 300 A F	–	SSIR 300 F	SSOR 300 F	SSAR 300 F	SSX 300 F		SST 300 F	SSR 300 K F

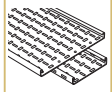
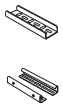
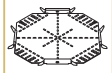
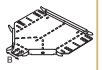
Key : selecting SS light duty fittings

Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 45 (90 standard and does not need to be included in order code)
B = Branch width (mm) : 50, 75, 100, 150, 225, 300
F = Finish : G (hot dip galvanised after manufacture), PG (pre-galvanised steel), S (stainless steel)
K = Narrowed width when using a reducer (mm) : 50, 75, 100, 150, 225



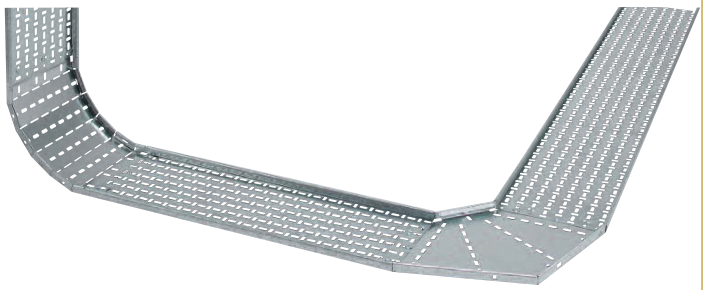


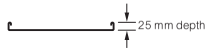
Tray width (mm)		TRAY	FITTINGS								FITTINGS		
		Straight lengths (3 m) F = finish	Coupler sets F = finish	Flat bends[1] A = angle F = finish	Adjustable bends F = finish	90° inside risers[1] F = finish	90° outside risers[1] F = finish	Adjustable risers F = finish	4 way crosspieces F = finish		Equal tees F = finish	Unequal tees B = branch F = finish	Straight reducers K = reduced width F = finish
													
MRF GENERAL PURPOSE	50	MRFL 50 F	MRFC50 F	MRFB 50 A F	MRFAB 50 F	MRFIR 50 90 F	MRFOR 50 90 F	MRFAR 50 F	MRFX 50 F		MRFT 50 F	MRFUT 50 B F	–
	75	MRFL 75 F	MRFC F	MRFB 75 A F	MRFAB 75 F	MRFIR 75 90 F	MRFOR 75 90 F	MRFAR 75 F	MRFX 75 F		MRFT 75 F	MRFUT 75 B F	MRFR 75 K F
	100	MRFL 100 F	MRFC F	MRFB 100 A F	MRFAB 100 F	MRFIR 100 90 F	MRFOR 100 90 F	MRFAR 100 F	MRFX 100 F		MRFT 100 F	MRFUT 100 B F	MRFR 100 K F
	150	MRFL 150 F	MRFC F	MRFB 150 A F	MRFAB 150 F	MRFIR 150 90 F	MRFOR 150 90 F	MRFAR 150 F	MRFX 150 F		MRFT 150 F	MRFUT 150 B F	MRFR 150 K F
	225	MRFL 225 F	MRFC F	MRFB 225 A F	MRFAB 225 F	MRFIR 225 90 F	MRFOR 225 90 F	MRFAR 225 F	MRFX 225 F		MRFT225 F	MRFUT 225 B F	MRFR 225 K F
	300	MRFL 300 F	MRFC F	MRFB 300 A F	MRFAB 300 F	MRFIR 300 90 F	MRFOR 300 90 F	MRFAR 300 F	MRFX 300 F		MRFT 300 F	MRFUT 300 B F	MRFR 300 K F
	450	MRFL 450 F	MRFC F	MRFB 450 A F	–	MRFIR 450 90 F	MRFOR 450 90 F	MRFAR 450 F	MRFX 450 F		MRFT 450 F	MRFUT 450 B F	MRFR 450 K F
	600	MRFL 600 F	MRFC F	MRFB 600 A F	–	MRFIR 600 90 F	MRFOR 600 90 F	MRFAR 600 F	MRFX 600 F		MRFT 600 F	MRFUT 600 B F	MRFR 600 K F

Key : selecting MRF general purpose fittings

Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 45 (90 standard and does not need to be included in order code)
B = Branch width (mm) : 50, 75, 100, 150, 225, 300, 450, 600
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised steel), PG (pre-galvanised steel), S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 50, 75, 100, 150, 225, 300, 450





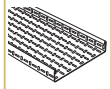
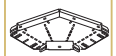
(1) Other angles available to special order

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Swifts® cable tray systems straight lengths and fittings

SRF heavy duty

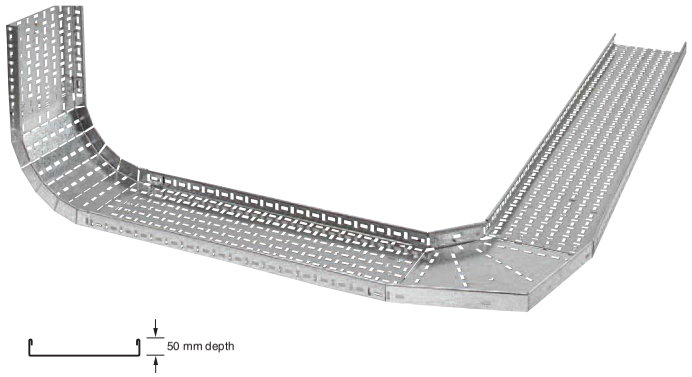
Tray width (mm)		TRAY	FITTINGS								FITTINGS		
		Straight lengths (3 m) F = finish	Coupler sets F = finish	Flat bends[1] A = angle F = finish	Adjustable bends F = finish	Inside risers A = angle F = finish	Outside risers A = angle F = finish	Adjustable risers F = finish	4 way crosspieces F = finish		Equal tees F = finish	Unequal tees B = branch F = finish	Straight reducers K = reduced width F = finish
													
SRF HEAVY DUTY	75	SRFL 75 F	SRFC F	SRFB 75 A F	SRFAB 75 F	SRFIR 75 A F	SRFOR 75 A F	SRFAR 75 F	SRFX 75 F		SRFT 75 F	SRFUT 75 B F	–
	100	SRFL 100 F	SRFC F	SRFB 100 A F	SRFAB 100 F	SRFIR 100 A F	SRFOR 100 A F	SRFAR 100 F	SRFX 100 F		SRFT 100 F	SRFUT 100 B F	SRFR 100 K F
	150	SRFL 150 F	SRFC F	SRFB 150 A F	SRFAB 150 F	SRFIR 150 A F	SRFOR 150 A F	SRFAR 150 F	SRFX 150 F		SRFT 150 F	SRFUT 150 B F	SRFR 150 K F
	225	SRFL 225 F	SRFC F	SRFB 225 A F	SRFAB 225 F	SRFIR 225 A F	SRFOR 225 A F	SRFAR 225 F	SRFX 225 F		SRFT 225 F	SRFUT 225 B F	SRFR 225 K F
	300	SRFL 300 F	SRFC F	SRFB 300 A F	SRFAB 300 F	SRFIR 300 A F	SRFOR 300 A F	SRFAR 300 F	SRFX 300 F		SRFT 300 F	SRFUT 300 B F	SRFR 300K F
	450	SRFL 450 F	SRFC F	SRFB 450 A F	–	SRFIR 450 A F	SRFOR 450 A F	SRFAR 450 F	SRFX 450 F		SRFT 450 F	SRFUT 450 B F	SRFR 450 K F
	600	SRFL 600 F	SRFC F	SRFB 600 A F	–	SRFIR 600 A F	SRFOR 600 A F	SRFAR 600 F	SRFX 600 F		SRFT 600 F	SRFUT 600 B F	SRFR 600 K F
	750	SRFL 750 F	SRFC F	SRFB 750 A F	–	SRFIR 750 A F	SRFOR 750 A F	SRFAR 750 F	SRFX 750 F		SRFT 750 F	SRFUT 750 B F	SRFR 750 K F
	900	SRFL 900 F	SRFC F	SRFB 900 A F	–	SRFIR 900 A F	SRFOR 900 A F	SRFAR 900 F	SRFX 900 F		SRFT 900 F	SRFUT 900 B F	SRFR 900 K F

(1) Other angles available to special order

Key : selecting SRF heavy duty fittings

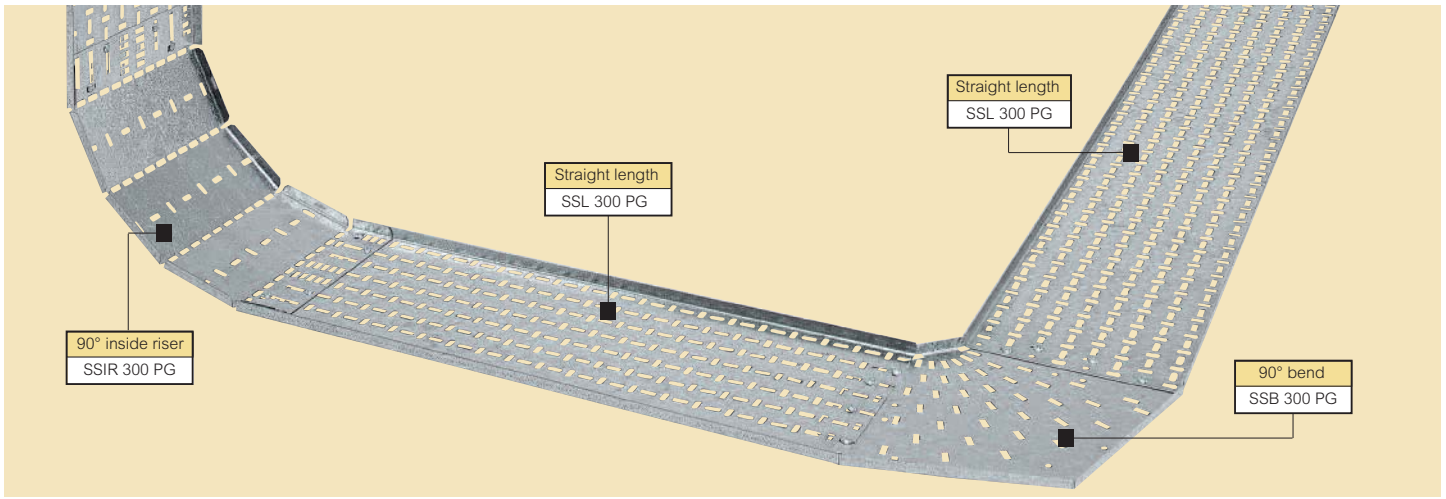
Replace the letters shown in red with your choice from the following options :

A = Angle (°) : 45 (90 does not need to be included in order code)
B = Branch width (mm) : 75, 100, 150, 225, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised steel), PG (pre-galvanised steel), S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 75, 100, 150, 225, 300, 450, 600, 750



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

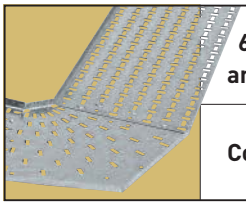
Swifts® cable tray systems
SS light duty



Dimensions and technical information (p. 249)
See selection chart (p. 238-239)

Pack	Cat. Nos.	SS light duty
		Straight lengths – 3 m
		All SS straight lengths and accessories have integral couplings, no separate couplers are needed For SS tray cut to length use fishplates across tray-to-tray joint as shown For gauge detail (see p. 249)
1	SSL 50 F	50 x 12
1	SSL 75 F	75 x 12
1	SSL 100 F	100 x 12
1	SSL 150 F	150 x 12
1	SSL 225 F	225 x 12
1	SSL 300 F	300 x 18
		Fittings
		All fittings have integral fishplates No couplers required
1	SSB W F	**90° bends**
1	SSB W A F	**45° bends**
		Risers
		Inside and outside risers are not available in PG finish, use adjustable risers for all angles from 0° to 90°, reference SSAR width finish (see key opposite)
1	SSIR W F	**90° inside riser**
1	SSOR W F	**90° outside riser**

Pack	Cat. Nos.	Fittings (continued)
1	SSIR W A F	**45° inside risers**
1	SSOR W A F	**45° outside risers**
1	SSAR W F	**Adjustable risers**
1	SSX W F	**4 way crosspieces**
1	SST W F	**Equal tees**
1	SSR W K F	**Reducers**



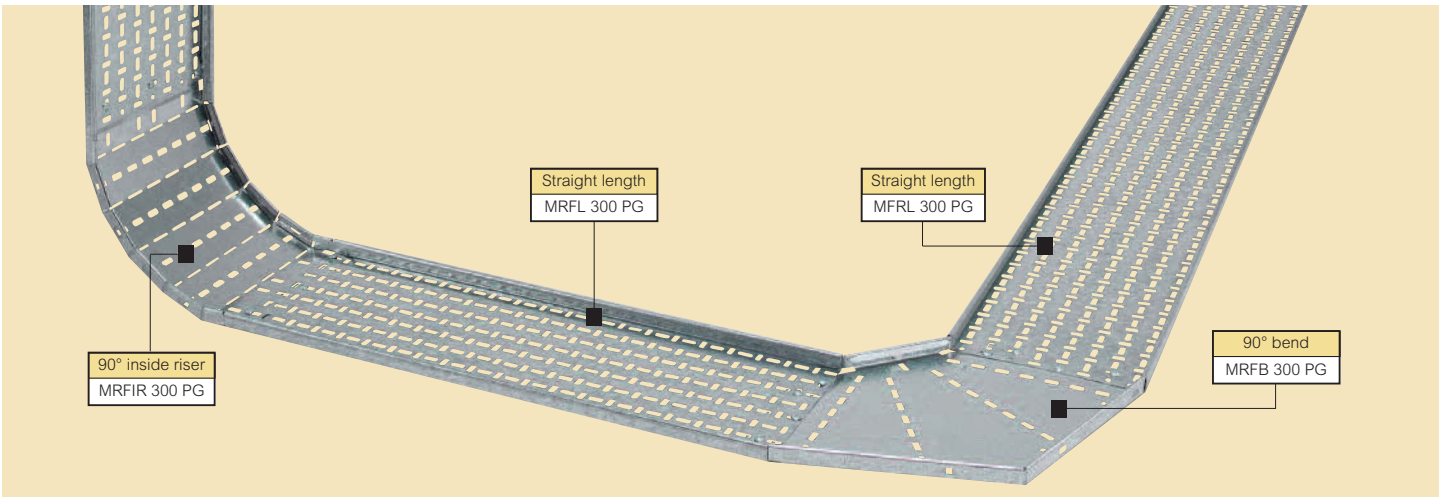
60° and 30° risers and 60° and 30° bends are available to special order

Contact us on 0845 605 4333

Key : selecting SS light duty fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 50, 75, 100, 150, 225, 300
A = Angle (°) : 45 (90 does not need to be included in order code)
B = Branch width (mm) : 50, 75, 100, 150, 225, 300
F = Finish : G (hot dip galvanised after manufacture)
PG (pre-galvanised), S (stainless steel)
K = Narrowed width when using a reducer (mm) :
50, 75, 100, 150, 225

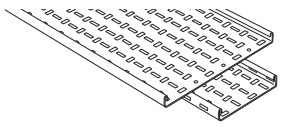
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

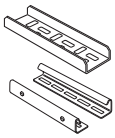
Swifts® cable tray systems
MRF general purpose return flange



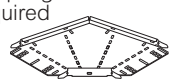
Dimensions and technical information (p. 249-250)
See selection chart (p. 238-239)

Pack	Cat. Nos.	MRF general purpose return flange
		Straight lengths – 3 m
1	MRFL 50 F	50 x 25
1	MRFL 75 F	75 x 25
1	MRFL 100 F	100 x 25
1	MRFL 150 F	150 x 25
1	MRFL 225 F	225 x 25
1	MRFL 300 F	300 x 25
1	MRFL 450 F	450 x 25
1	MRFL 600 F	600 x 25
		Coupler and coupler sets
		Use to join straight lengths
		Standard couplers
1	MRFC 50 F	50 mm wide tray
1	MRFC F	75 - 900 mm wide tray Supplied in pairs
		Quick bolt couplers
		Supplied in packs containing 25 pairs of couplers and 100 coach bolts. For tray widths 300 mm and above use two additional coach bolts (QBF) per coupler Not available in S or D
1	MRQBC F	75 - 900 mm wide tray
1	QBF	Pack of 100 M6 x 12 coach bolts Used to secure fittings to straight lengths and used with quick bolt couplers on 300 mm and above tray widths

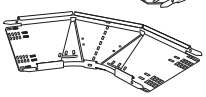


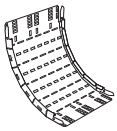


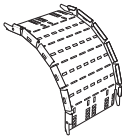
Pack	Cat. Nos.	Fittings
		All fittings have integral coupling tabs and fishplates. No couplers required
1	MRFB W F	**90° bends**
1	MRFB W A F	**45° bends** For 50 - 300 mm wide, adjustable bends can also be used
1	MRFAB W F	**Adjustable bends** 50 - 300 mm wide only
1	MRFIR W F	**90° inside riser** For other angles, use adjustable risers. Fixed angles available to special order
1	MRFOR W F	**90° outside riser** For other angles, use adjustable risers. Fixed angles available to special order



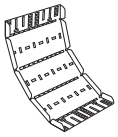


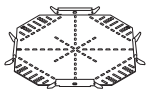


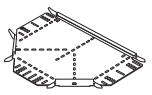


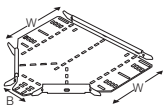


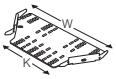
Pack	Cat. Nos.	Fittings (continued)
1	MRFAR W F	**Adjustable risers (inside or outside)**
1	MRFX W F	**4 way crosspieces**
1	MRFT W F	**Equal tees**
1	MRFUT W B F	**Unequal tees**
1	MRFR W K F	**Reducers**

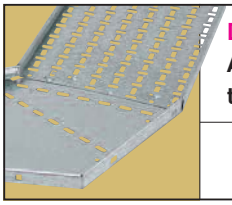












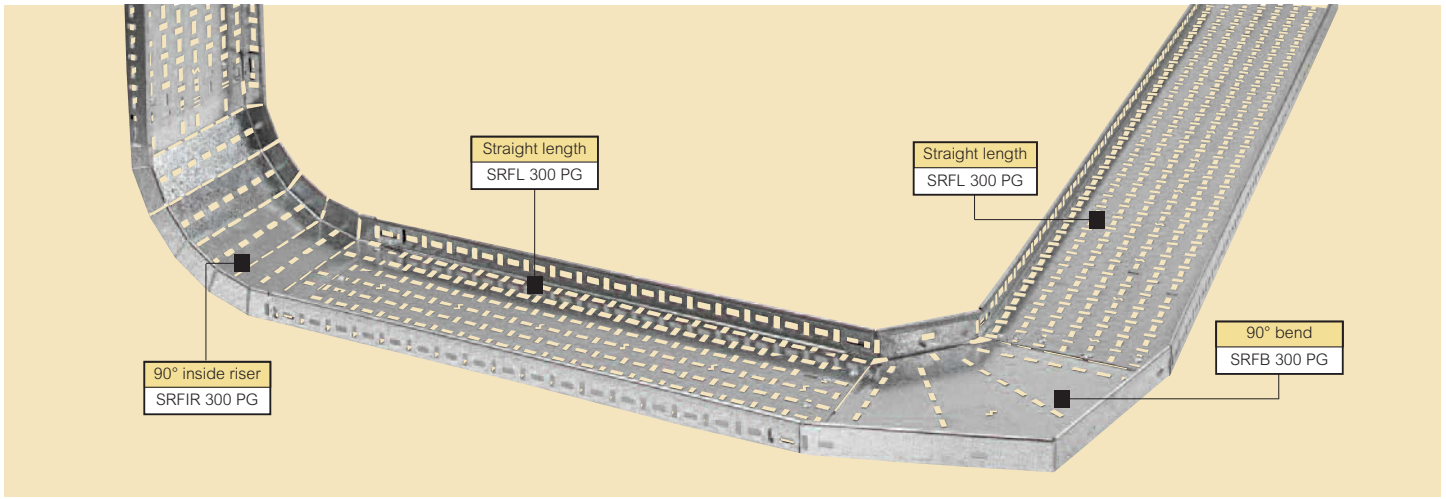
D and S finishes not available in 50 mm
Additional gauges and finishes available to special order

Contact us on 0845 605 4333

Key : selecting MRF general purpose fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 50, 75, 100, 150, 225, 300, 450, 600
A = Angle (°) : 45 (90 does not need to be included in order code)
B = Branch width (mm) : 50, 75, 100, 150, 225, 300, 450, 600
F = Finish : G (hot dip galvanised after manufacture),
D (deep galvanised), PG (pre-galvanised steel),
S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) :
50, 75, 100, 150, 225, 300, 450

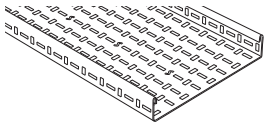
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

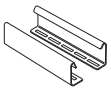
Swifts® cable tray systems
SRF heavy duty return flange



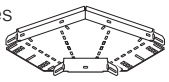
Dimensions and technical information (p. 250)
See selection chart (p. 240-241)

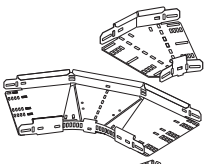
Pack	Cat. Nos.	Heavy duty return flange
		Straight lengths – 3 m
1	SRFL 75 F	75 x 50
1	SRFL 100 F	100 x 50
1	SRFL 150 F	150 x 50
1	SRFL 225 F	225 x 50
1	SRFL 300 F	300 x 50
1	SRFL 450 F	450 x 50
1	SRFL 600 F	600 x 50
1	SRFL 750 F	750 x 50
1	SRFL 900 F	900 x 50
		Coupler sets
		Use to join straight lengths
		Standard couplers
1	SRFC F	Supplied in pairs
		Quick bolt couplers
		Supplied in packs containing 25 pairs of couplers and 100 coach bolts. For tray widths 300 mm and above use two additional coach bolts (QBF) per coupler Not available in S or D
1	SRQBC W F	All tray widths
1	QBF	Pack of 100 M6 x 12 coach bolts Used to secure fittings to straight lengths and used with quick bolt couplers on 300 mm and above tray widths

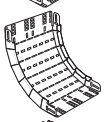


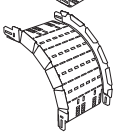


Pack	Cat. Nos.	Fittings
		All fittings have integral coupling tabs and fishplates
1	SRFB W F	**90° bends**
		45° bends
1	SRFB W A F	For 75 - 300 mm wide, adjustable bends can also be used
		Adjustable bends
1	SRFAB W F	75 - 300mm wide only
		90° inside riser
1	SRFIR W F	For other angles, use adjustable risers. Fixed angles available to special order
		90° outside riser
1	SRFOR W F	For other angles, use adjustable risers. Fixed angles available to special order
1	SRFAR W F	**Adjustable risers (inside or outside)**



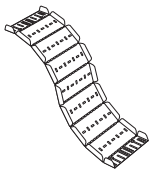


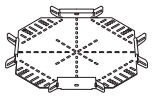


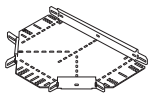


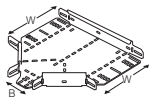


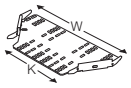
Pack	Cat. Nos.	Fittings (continued)
1	SRFAXR W F	**Extra long adjustable risers**
1	SRFX W F	**4 way crosspieces**
1	SRFT W F	**Equal tees**
1	SRFUT W B F	**Unequal tees**
1	SRFR W K F	**Reducers**

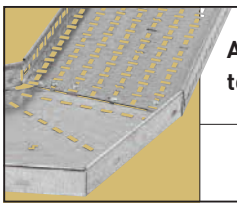












Additional gauges and finishes available to special order

Contact us on 0845 605 4333

Key : selecting SRF heavy duty fittings. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 75, 100, 150, 225, 300, 450, 600, 750, 900
A = Angle (°) : 45 (90 does not need to be included in order code) see selection chart key (p. 240-241)
B = Branch width (mm) : 75, 100, 150, 225, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture), D (deep galvanised), PG (pre-galvanised steel), S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) : 75, 100, 150, 225, 300, 450, 600, 750

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable tray systems
supports

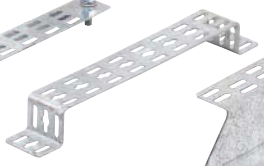

LCA 300 G


LCB 150 G


CKP 25


OH 150 PG

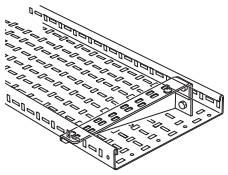

LTH 300 PG


STB 300 PG

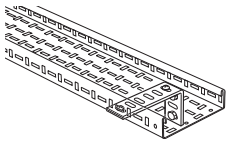

STB 450 PG

Dimensions and technical information (p. 251)

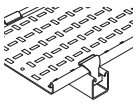
Pack	Cat. Nos.	Supports
		Light duty cantilever arms
		Supplied singly without fastenings Fit horizontal runs of tray and light duty (Opal) ladder to flat surfaces and Swiftrack channel. Suitable for all tray widths, as shown
1	LCA 100 F	100 mm
1	LCA 150 F	150 mm
1	LCA 225 F	225 mm
1	LCA 300 F	300 mm
1	LCA 450 F	450 mm
1	LCA 600 F	600 mm
1	LCA 750 F	750 mm
1	LCA 900 F	900 mm



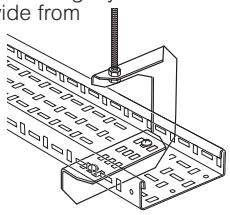
		Light duty cantilever brackets
		Supplied singly without fastenings Fit horizontal runs of lightly loaded tray up to 150 mm wide to flat surfaces and Swiftrack channel 50 - 75 mm not available in D finish 100 - 150 mm not available in D, PG or S finishes
1	LCB 50 F	50 mm
1	LCB 75 F	75 mm
1	LCB 100 F	100 mm
1	LCB 150 F	150 mm



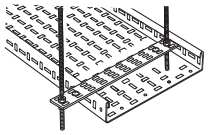
		Easi-clip
50	CKP 25	Used to connect MRF tray to Swiftrack channel Zinc coated finish

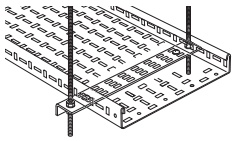


		Overhead hangers
		Supplied singly without fastenings Support horizontal runs of lightly loaded tray up to 150 mm wide from overhead structures Use M10 threaded rod
1	OH 50 F	50 mm
1	OH 75 F	75 mm
1	OH 100 F	100 mm
1	OH 150 F	150 mm

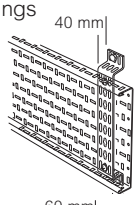


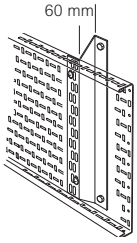
Pack	Cat. Nos.	Supports (continued)
		Light duty trapeze hangers
		Supplied singly without fastenings Support horizontal runs of tray and light duty (Opal) ladder from overhead structures Up to 450 mm wide use M10 threaded rods. For 600 mm wide and above use M12 threaded rods
1	LTH 50 F	50 mm
1	LTH 75 F	75 mm
1	LTH 100 F	100 mm
1	LTH 150 F	150 mm
1	LTH 225 F	225 mm
1	LTH 300 F	300 mm
1	LTH 450 F	450 mm
1	LTH 600 F	600 mm
1	LTH 750 F	750 mm
1	LTH 900 F	900 mm





		Stand-off brackets
		Supplied singly without fastenings Fit vertical or horizontal runs of tray to vertical surfaces, floors and Swiftrack channel
1	STB 50 F	50 mm
1	STB 75 F	75 mm
1	STB 100 F	100 mm
1	STB 150 F	150 mm
1	STB 225 F	225 mm
1	STB 300 F	300 mm
1	STB 450 F	450 mm
1	STB 600 F	600 mm
1	STB 750 F	750 mm
1	STB 900 F	900 mm

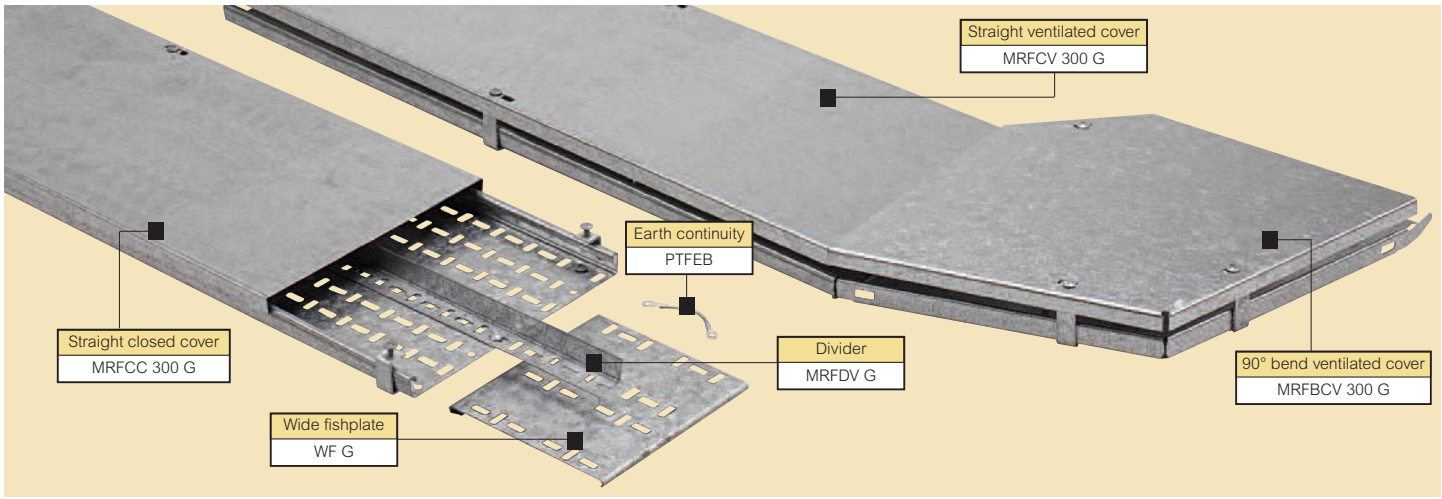




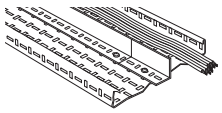
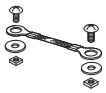
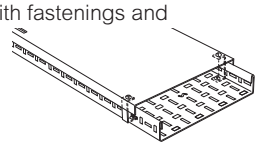
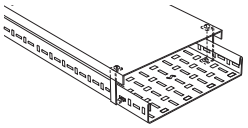
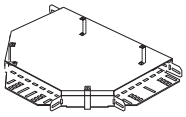
Key : selecting supports. Replace the letters shown in red with your choice from the following options :
F = Finish : G (hot dip galvanised after manufacture),
D (deep galvanised), PG (pre-galvanised)
S (stainless steel), E (plastic coated)

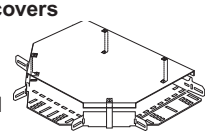
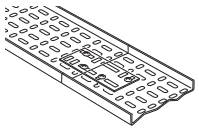
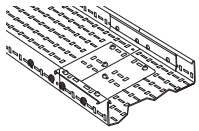
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable tray systems
ancillary items



Dimensions and technical information (p. 251)

Pack	Cat. Nos.	Ancillary items
		Dividers – 3 m
		Supplied singly without fastenings Used to separate different types or groups of cable within one cable tray run 
1	MRFDV F	For MRF
1	SRFDV F	For SRF
		Earth continuity connectors
20	PTFEB	Fastenings not included Use M6 x 12 mm roofing nuts and bolts Copper braid and copper lugs both in electrotinned finish Length between centres : 93 mm Conductor area : 4 mm² 
		Straight closed covers
		Supplied singly with fastenings and brackets 3 m lengths 
1	SSCC W F	For SS
1	MRFCC W F	For MRF
1	SRFCC W F	For SRF
		Straight ventilated covers
		Supplied singly with fastenings and brackets 3 m lengths 
1	SSCV W F	For SS
1	MRFCV W F	For MRF
1	SRFCV W F	For SRF
		Accessory closed covers
		Supplied singly with fastenings and brackets Add CC before the width of your completed accessory Cat. No. Examples shown are for an unequal tee with a 150 branch off a 300 run, hot dip galvanised 
1	SS -	For SS Example : SSUT CC 300 150 G
1	MRF -	For MRF Example : MRFUT CC 300 150 G
1	SRF -	For SRF Example : SRFUT CC 300 150 G

Pack	Cat. Nos.	Ancillary items (continued)
		Accessory ventilated covers
		Supplied singly with fastenings and brackets Add CV before the width of your completed accessory Cat. No. Examples shown are for an unequal tee with a 150 branch off a 300 run, hot dip galvanised 
1	SS -	For SS Example : SSUT CV 300 150 G
1	MRF -	For MRF Example : MRFUT CV 300 150 G
1	SRF -	For SRF Example : SRFUT CV 300 150 G
		Fishplates
		Fishplates are designed for extra strength when joining cable tray beds Supplied singly without fastenings For assembly options (see p. 251)
1	F F	For SS and SRF 
1	WF F	For SS, MRF and SRF 
		Finish renovation materials
1	AGALVPAINT	Galvafroid paint 400 ml
1	AEPOXYPAINT	2-pack Epoxy paste 1 litre

Key : selecting ancilliary items. Replace the letters shown in red with your choice from the following options :
W = Widths (mm) : 50, 75, 100, 150, 225, 300, 450, 600, 750, 900
B = Branch width (mm) : 50, 75, 100, 150, 225, 300, 450, 600, 750, 900
F = Finish : G (hot dip galvanised after manufacture)
D (deep galvanised), PG (pre-galvanised)
S (stainless steel), E (plastic coated)
K = Narrowed width when using a reducer (mm) :
50, 75, 100, 150, 225, 300, 450, 600, 750

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® cable tray systems
standard fastenings


QBF


RBO612


RBGO612


RBO612 S


TR06


RC06

RWG06

Pack	Cat. Nos.	Standard fastenings
		Coach bolts
		High grade steel with Dacromet finish
100	QBF	Pack of 100 M6 x 12 coach bolts Used to secure fittings to straight lengths and used with quick bolt couplers on 300 mm and above tray widths
		Roofing nuts and bolts
200	RB0612	M6 x 12 electroplated zinc
200	RB0616	M6 x 16 electroplated zinc
200	RB0620	M6 x 20 electroplated zinc
200	RB0625	M6 x 25 electroplated zinc
100	RB0630	M6 x 30 electroplated zinc
100	RB0640	M6 x 40 electroplated zinc
100	RB0650	M6 x 50 electroplated zinc
100	RBG0612	M6 x 12 hot dip galvanised
100	RBG0616	M6 x 16 hot dip galvanised
100	RB0616 S	M6 x 16 stainless steel
100	RB0620 S	M6 x 20 stainless steel
		Roofing washers
500	RWG06	M6 hot dip galvanized

Pack	Cat. Nos.	Standard fastenings (continued)
		Threaded rods
1	TR06	M6 x 3 m electroplated zinc
1	TR08	M8 x 3 m electroplated zinc
1	TR10	M10 x 3 m electroplated zinc
1	TR12	M12 x 3 m electroplated zinc
1	TR06 S	M6 x 3 m stainless steel
1	TR08 S	M8 x 3 m stainless steel
1	TR10 S	M10 x 3 m stainless steel
1	TR12 S	M12 x 3 m stainless steel
		Threaded rod connectors
1	RC06	M6 electroplated zinc
1	RC08	M8 electroplated zinc
1	RC10	M10 electroplated zinc
1	RC12	M12 electroplated zinc

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

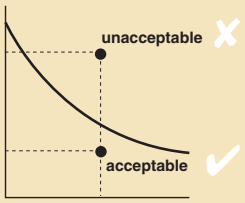
■ Loading graphs

The loads shown on all graphs are the safe recommended maximum loads that can be applied and must include wind, snow and any other external forces in addition to the cable load

The graphs show the maximum load for tray installed at a support spacing within its recommended range

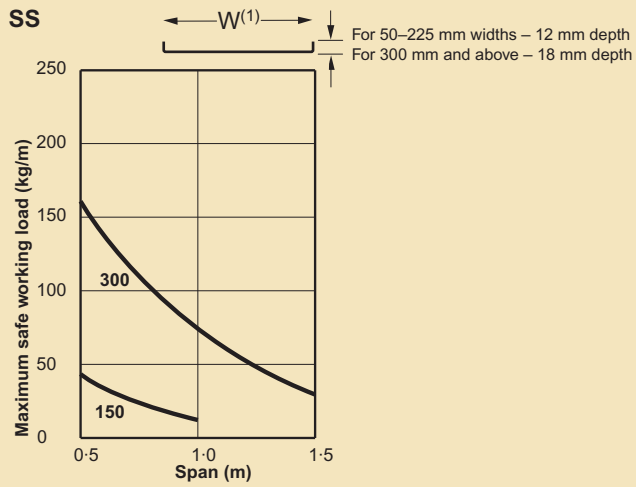
When the graph line is above the intersection of the required load and span lines, the support equipment is suitable for use within those load and span conditions

Example

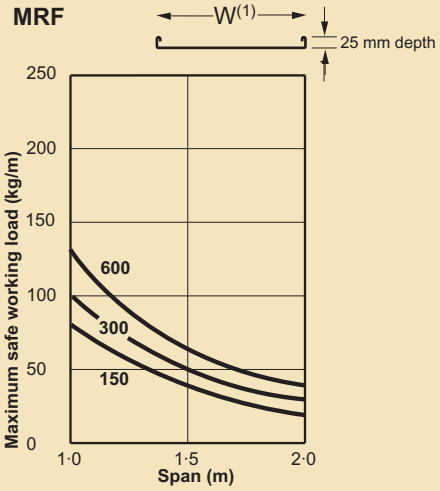


■ Tray section

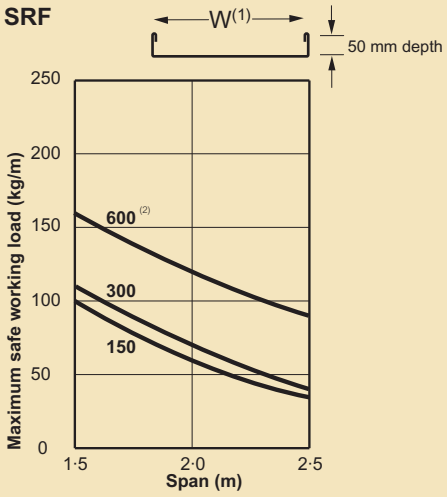
SS



MRF



SRF



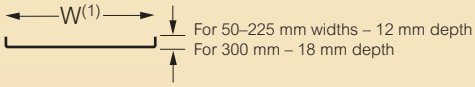
On wider MRF and SRF trays the maximum safe working load can be increased by fitting an appropriate fishplate across the underside of each tray-to-tray joint

(1) W = For widths see selection charts (p. 238-241)
(2) SRFL 600 – tested with fishplates

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

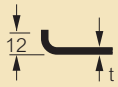
■ SS light duty

Straight lengths



(1) W = Widths (see p. 242)

50 to 225 mm



300 mm



NOTE :
The gauge 't' for each cable tray width and finish varies by product and range
Non-standard gauges and finishes are available to special order

For SS tray cut to length use fishplates across tray-to-tray joint (see p. 251)

50 - 300 mm width fishplate F F

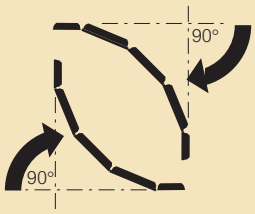
Bends, tees and 4 way crosspieces
All bends, tees and crosspieces have 50 mm radius

Inside and outside fixed risers
Inside and outside risers are not available in PG finish, use adjustable risers for all angles from 0° to 90°, reference SSAR W F

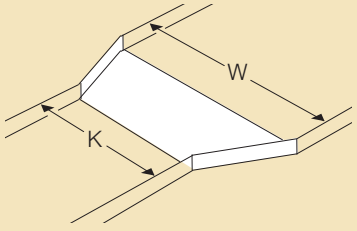
Width (mm)	Radius (R) (mm)
50 to 150	75
225 to 300	150

Adjustable risers
The adjustable riser can be used as an inside or outside riser for any angle up to 90°

Minimum radius = 200 mm
Maximum radius = 300 mm
Overall length when flat = 554 mm

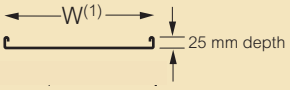


Reducer
To create the Cat. No., add the main run width (W), to the reduced run width (K) and the finish
EXAMPLE :
For a hot dip galvanised reducer reducing from 300 mm to 150 mm :
SSR 300 150 G.



■ MRF general purpose

Straight lengths

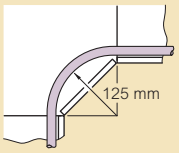


(1) W = Widths (see p. 243)

NOTE :
The gauge 't' for each cable tray width and finish varies by product and range
Non-standard gauges and finishes are available to special order

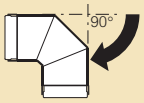
For trays 450 mm wide and greater, the addition of fishplate WF F across the underside of the tray-to-tray joint provides added strength and increases the safe working load

Bends, tees and 4 way crosspieces
Minimum cable radius = 125 mm

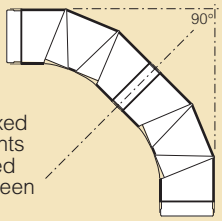


Inside and outside fixed risers
All fixed risers radius = 260 mm

Adjustable bends
Not available in 450 mm widths and above
Use fixed item instead e.g. MRFB 450 30 G



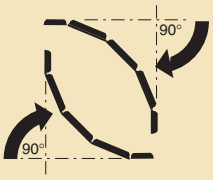
Can be set to a fixed angle (in increments of 7·5°) or adjusted to any angle between 30° and 90°



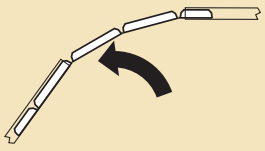
Form a large 90° bend by using 2 adjustable bends together

Adjustable risers
The adjustable riser can be used as an inside or outside riser for any angle up to 90°

Minimum radius = 200 mm
Maximum radius = 300 mm
Overall length when flat = 554 mm



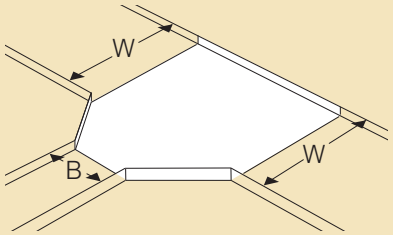
Avoid the need for cutting by inserting as many segments as necessary into the end of the straight tray



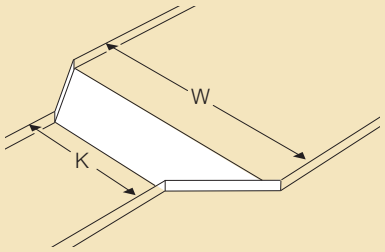
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ MRF general purpose (continued)

Unequal tees
To create the Cat. No., add the main run width (W), the branch width (B) and the finish
EXAMPLE :
For a hot dip galvanised unequal tee reducing from 300 mm to 150 mm : MRFUT 300 150 G



Reducers
To create the Cat No., add the main run width (W), the reduced run width (K) and the finish
EXAMPLE :
For a hot dip galvanised reducer reducing from 300 mm to 150 mm : MRFR 300 150 G

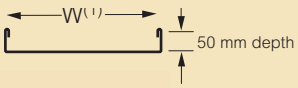


Easi-clip
Slide the Easi-clip into Swiftrack channel (one per flange) and a simple 'one-click' movement will secure the tray
No additional fastenings are needed
Not recommended for use where external loads are anticipated



■ SRF heavy duty

Straight lengths

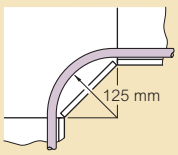


(1) W = Widths (see p. 244)

NOTE :
The gauge 't' for each cable tray width and finish varies by product and range
Non-standard gauges and finishes are available to special order

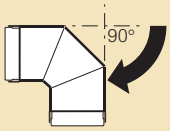
For trays 450 mm wide and greater, the addition of fishplate WF F across the underside of the tray-to-tray joint provides added strength and increases the safe working load

Bends, tees and 4 way crosspieces
Minimum cable radius = 125 mm

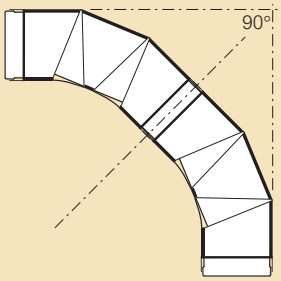


Inside and outside fixed risers
All fixed risers radius = 260 mm

Adjustable bends
Not available in 450 to 900 mm widths
Use fixed item instead e.g. SRFB 450 45 G

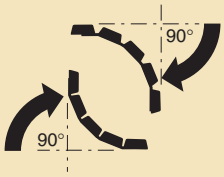


Can be set to a fixed angle (in increments of 7·5°) or adjusted to any angle between 30° and 90°



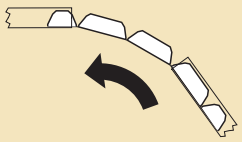
Form a large 90° bend by using 2 adjustable bends together

Adjustable risers
The adjustable riser can be used as an inside or outside riser for any angle up to 90°

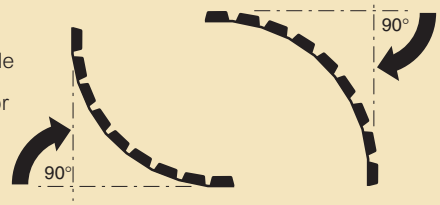


Minimum radius = 200 mm
Maximum radius = 300 mm
Overall length when flat = 554 mm

Avoid the need for cutting by inserting as many segments as necessary into the end of the straight tray



Extra long adjustable risers
The extra long adjustable riser can be used as an inside or outside riser for any angle up to 90°

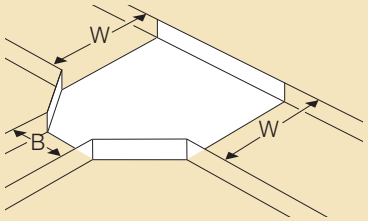


Minimum radius = 200 mm
Maximum radius = 650 mm
Overall length when flat = 1087 mm

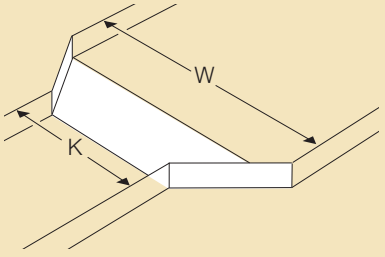


Ideal for avoiding obstacles on site

SRF Unequal tees
To create the Cat. No., add the main run width (W), the branch width (B) and the finish
EXAMPLE :
For a hot dip galvanised unequal tee reducing from 300 mm to 150 mm : SRFUT 300 150 G



Reducers
To create the Cat. No., add the main run width (W), the reduced run width (K) and the finish
EXAMPLE :
For a hot dip galvanised reducer reducing from 300 mm to 150 mm : SRFR 300 150 G.

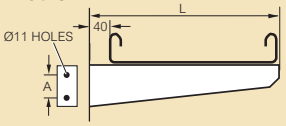


ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Light duty cantilever arms

Supplied singly without fastenings
Fit horizontal runs of tray and light duty (Opal) ladder to flat surfaces and Swiftrack channel. Suitable for all tray widths

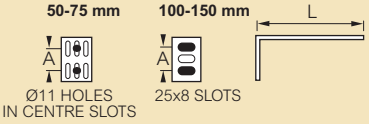
Cat. Nos.	A	L	SWL (kgf[1]) surface
LCA 100 F	30	140	120[2]
LCA 150 F	30	190	120[2]
LCA 225 F	45	265	150
LCA 300 F	45	340	150
LCA 450 F	75	490	150
LCA 600 F	125	640	300
LCA 750 F	175	790	300
LCA 900 F	225	940	300



(1) Per cantilever arm for load uniformly distributed across complete arm using two fixing holes
Safety factor : 2
(2) When one fixing hole is used the recommended safe working load = 100 kgf

■ Light duty cantilever brackets

Supplied singly without fastenings
Fit horizontal runs of lightly loaded tray up to 150 mm wide to flat surfaces and Swiftrack channel



Cat. Nos.	A	L	SWL (kgf[3]) surface	SWL (kgf[3]) Swiftrack
LCB 50[3] F	37	50	15	15
LCB 75[3] F	37	75	15	15
LCB 100[4] F	45	105	20	20
LCB 150[4] F	45	150	20	20

(3) 50 - 75 mm not available in D finish
(4) 100 - 300 mm not available in D, PG and S
(5) Per bracket for load uniformly distributed across complete bracket

■ Overhead hangers

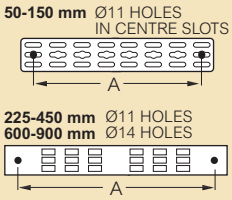
Supplied singly without fastenings
Support horizontal runs of lightly loaded tray up to 150 mm wide from overhead structure. Use M10 threaded rod

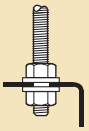
Cat. Nos.	SWL (kgf[6])
OH 50 F	25
OH 75 F	50
OH 100 F	50
OH 150 F	50

(6) Per hanger for load uniformly distributed across tray width
Safety factor : 2

■ Light duty trapeze hangers

Supplied singly without fastenings. Support horizontal runs of tray and light duty (Opal) ladder from overhead structures. Up to 450 mm wide use M10 threaded rods. For 600 mm wide and above use M12 threaded rods





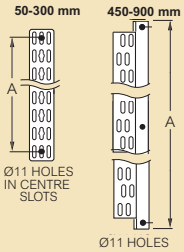
Trapeze hanger to threaded rod fixing

Cat. Nos.	A	SWL, (kgf[7])
LTH 50 F	75	100
LTH 75 F	112	100
LTH 100 F	150	100
LTH 150 F	187	100
LTH 225 F	280	200
LTH 300 F	355	270
LTH 450 F	505	300
LTH 600 F	660	300
LTH 750 F	810	300
LTH 900 F	960	300

(7) Per hanger for load uniformly distributed across complete hanger
Safety factor : 2

■ Stand-off brackets

Supplied singly without fastenings. Fit vertical or horizontal runs of tray to vertical surfaces, floors and Swiftrack channel



Central hole in flange equispaced on 600 to 900 mm wide brackets

Cat. Nos.	A	SWL (kgf[8]) horizontal tray run	SWL (kgf[8]) vertical tray run
STB 50 F	82	40	–
STB 75 F	120	40	–
STB 100 F	157	40	–
STB 150 F	195	40	–
STB 225 F	273	100	–
STB 300 F	349	100	–
STB 450 F	485	150	150
STB 600 F	635	150	150
STB 750 F	785	150	150
STB 900 F	935	150	150

(8) Per stand-off bracket for load uniformly distributed across the tray

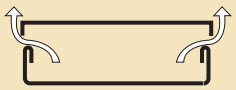
■ Ancillary items and standard fastenings

Dividers
Supplied singly without fastenings. Used to separate different types or groups of cable within one cable tray run

Earth continuity connectors
Fastenings not included. Use M6 x 12 mm roofing nuts and bolts
Copper braid and copper lugs both in electrotinned finish.
Length between centres : 93 mm. Conductor area : 4 mm²

Straight closed covers
Supplied singly with fastenings and brackets. Covers 600 mm and above are overlap jointed and dimpled for rigidity
SSL light duty tray closed covers are only available in widths 300 mm and above

Straight ventilated covers



Supplied singly with fastenings
3 m lengths
Covers 600 mm and above are overlap jointed and dimpled for rigidity
SS ventilated covers are only available in widths 75 mm and above

Accessory closed covers
Supplied singly with fastenings and brackets
SSL light duty tray closed covers are only available in widths 300 mm and above

Accessory ventilated covers
Supplied singly with fastenings and brackets
SS ventilated covers are only available in widths 75 mm and above

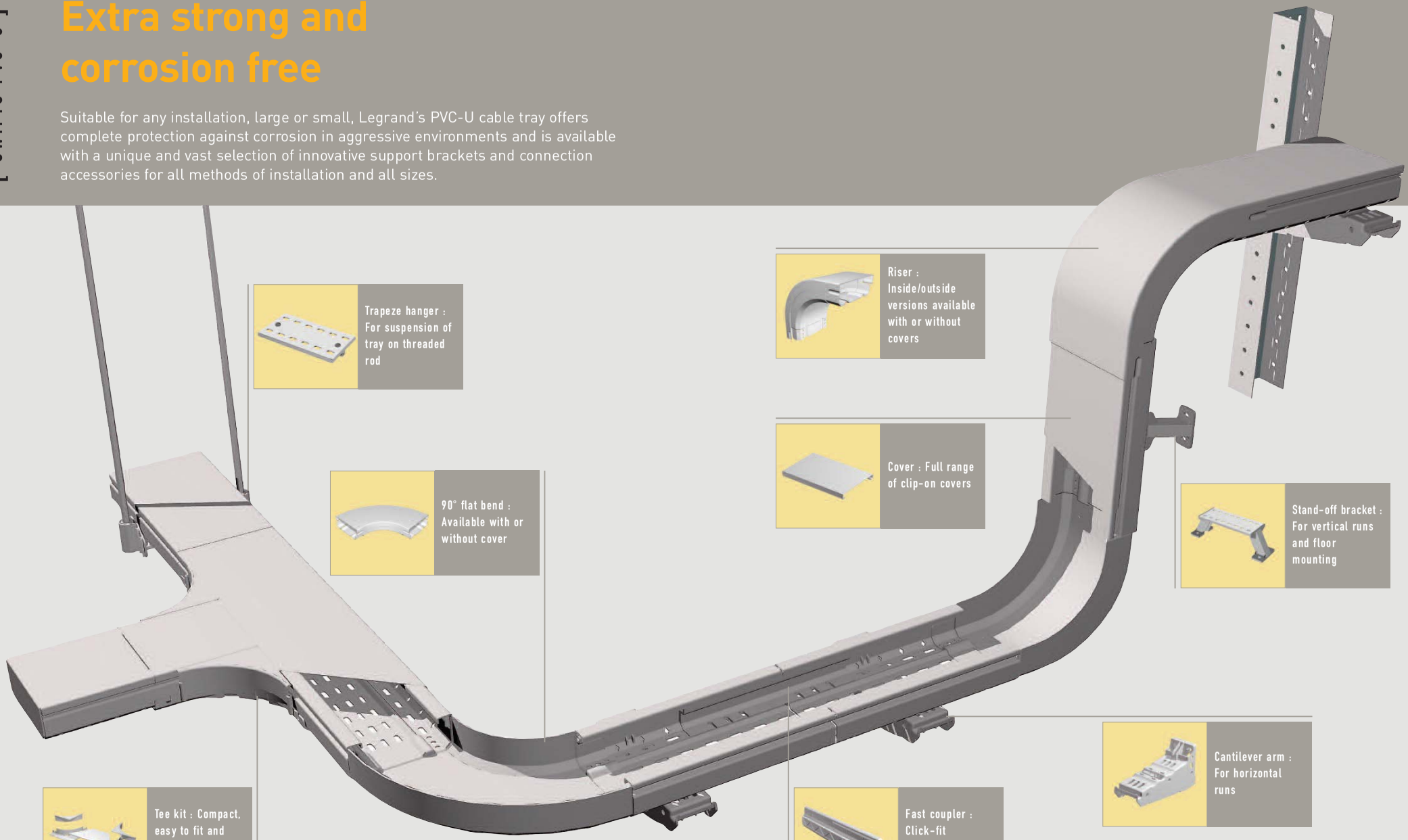
Fishplates
Supplied singly without fastenings. Fishplates are designed for use when joining larger widths of MRF and SRF cable tray and all widths of SS cable tray which have been cut to length.
They fit across the underside of the tray joint to provide added strength and increase the safe working load. They also greatly enhance the lateral rigidity of the joint and prevent unevenness in the bed between adjacent trays

Tray range	Tray width	Cat. No.
SS	50–300	F F
MRF	450–600	WF F
SRF	450–900	WF F

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Extra strong and corrosion free

Suitable for any installation, large or small, Legrand's PVC-U cable tray offers complete protection against corrosion in aggressive environments and is available with a unique and vast selection of innovative support brackets and connection accessories for all methods of installation and all sizes.



Trapeze hanger : For suspension of tray on threaded rod

Riser : Inside/outside versions available with or without covers

90° flat bend : Available with or without cover

Cover : Full range of clip-on covers

Stand-off bracket : For vertical runs and floor mounting

Tee kit : Compact, easy to fit and available in a full range of sizes

Fast coupler : Click-fit connection of straight lengths

Cantilever arm : For horizontal runs

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Swifts® PVC-U cable tray lengths, fittings and accessories

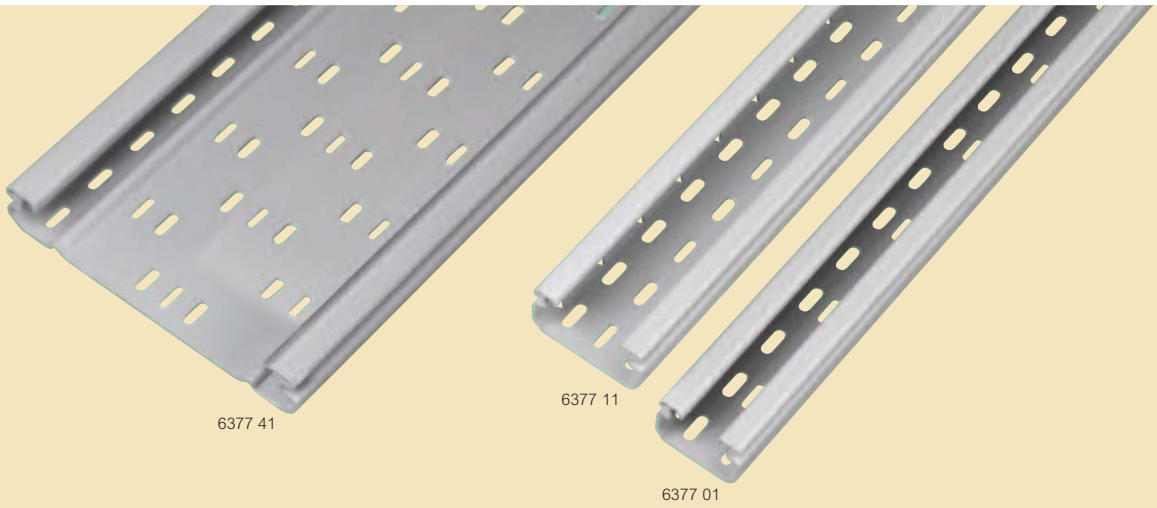
50, 75 and 100 mm depth trays

		TRAY	FITTINGS AND ACCESSORIES							FITTINGS AND ACCESSORIES									
Section (mm) Width x Depth		Straight lengths – perforated	Couplers	Covers	Flat 90° bends	Flat 90° bends with cover	Inside 90° risers	Inside 90° risers with cover		Outside 90° risers	Outside 90° risers with cover	End caps	T kits	T intersections	Dividers	Cantilever arms PVC-U[1] Steel[2]	Trapeze hangers	Stand-off brackets	Hinged couplers
50 MM DEPTH	75 x 50	6377 01	6377 90	6377 60	6377 02	6377 03	6377 04	6377 05		6377 06	6377 07	6377 08	6378 70	6378 60	6377 88	6377 66[1]	6377 71	6377 81	6377 93
	100 x 50	6377 11	6377 90	6377 61	6377 12	6377 13	6377 14	6377 15		6377 16	6377 17	6377 18	6378 71	6378 60	6377 88	6377 66[1]	6377 71	6377 81	6377 93
	150 x 50	6377 21	6377 90	6377 62	6377 22	6377 23	6377 24	6377 25		6377 26	6377 27	6377 28	6378 72	6378 60	6377 88	6377 67[1]	6377 72	6377 82	6377 93
	200 x 50	6377 31	6377 91	6377 63	6377 32	6377 33	6377 34	6377 35		6377 36	6377 37	6377 38	6378 73	6378 60	6377 88	6377 68[1]	6377 73	6377 83	6379 93
	300 x 50	6377 41	6377 91	6377 64	6377 42	6377 43	6377 44	6377 45		6377 46	6377 47	6377 48	6378 74	6378 60	6377 88	6377 69[1] 6379 78[2]	6377 74	6377 84	6379 93
	400 x 50	6377 51	6377 91	6377 65	6377 52	6377 53	6377 54	6377 55		6377 56	6377 57	6377 58	6378 75	6378 60	6377 88	6379 79[2]	6377 75	6377 85	6379 93
75 MM DEPTH	75 x 75	6378 01	6378 90	6377 60	6378 02	6378 03	6378 04	6378 05		6378 06	6378 07	6378 08	6378 70	6378 60	6378 88	6377 66[1]	6377 71	6377 81	6377 93
	100 x 75	6378 11	6378 90	6377 61	6378 12	6378 13	6378 14	6378 15		6378 16	6378 17	6378 18	6378 71	6378 60	6378 88	6377 66[1]	6377 71	6377 81	6377 93
	150 x 75	6378 21	6378 90	6377 62	6378 22	6378 23	6378 24	6378 25		6378 26	6378 27	6378 28	6378 72	6378 60	6378 88	6377 67[1]	6377 72	6377 82	6377 93
	200 x 75	6378 31	6378 91	6377 63	6378 32	6378 33	6378 34	6378 35		6378 36	6378 37	6378 38	6378 73	6378 60	6378 88	6377 68[1]	6377 73	6377 83	6379 93
	300 x 75	6378 41	6378 91	6377 64	6378 42	6378 43	6378 44	6378 45		6378 46	6378 47	6378 48	6378 74	6378 60	6378 88	6377 69[1] 6379 78[2]	6377 74	6377 84	6379 93
	400 x 75	6378 51	6378 91	6377 65	6378 52	6378 53	6378 54	6378 55		6378 56	6378 57	6378 58	6378 75	6378 60	6378 88	6379 79[2]	6377 75	6377 85	6379 93
100 MM DEPTH	200 x 100	6379 01	6379 90	6377 63	6379 02	6379 03	6379 04	6379 05		6379 06	6379 07	6379 08	6379 70	6379 60	6379 88	6379 68[2]	6377 73	6377 83	6379 93
	300 x 100	6379 11	6379 90	6377 64	6379 12	6379 13	6379 14	6379 15		6379 16	6379 17	6379 18	6379 71	6379 60	6379 88	6377 69[1] 6379 78[2]	6377 74	6377 84	6379 93
	400 x 100	6379 21	6379 90	6377 65	6379 22	6379 23	6379 24	6379 25		6379 26	6379 27	6379 28	6379 72	6379 60	6379 88	6379 79[2]	6377 75	6377 85	6379 93
	500 x 100	6379 31	6379 90	6379 63	6379 32	6379 33	6379 34	6379 35		6379 36	6379 37	6379 38	6379 73	6379 60	6379 88	6379 80[2]	6379 76	6379 83	6379 93
	600 x 100	6379 41	6379 90	6379 64	6379 42	6379 43	6379 44	6379 45		6379 46	6379 47	6379 48	6379 74	6379 60	6379 88	6379 81[2]	6379 77	6379 84	6379 93

(1) PVC-U cantilever arm
(2) Steel cantilever arm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® PVC-U cable tray
50 mm depth

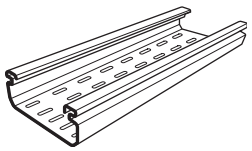


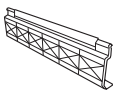
Selection chart (p. 254-255)
Technical information (p. 260-263)

Straight lengths

Conform to BS EN 61537
Length : 3 metres

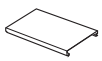
Pack	Cat. Nos.	Width x Depth (mm)
		Perforated
24(1)	6377 01	75 x 50
24(1)	6377 11	100 x 50
18(1)	6377 21	150 x 50
6(1)	6377 31	200 x 50
6(1)	6377 41	300 x 50
6(1)	6377 51	400 x 50
		Couplers
20	6377 90	For 75 to 150 x 50
20	6377 91	For 200 to 400 x 50





Covers

Pack	Cat. Nos.	Width (mm)
24(1)	6377 60	75
24(1)	6377 61	100
18(1)	6377 62	150
12(1)	6377 63	200
12(1)	6377 64	300
12(1)	6377 65	400



Fittings

Pack	Cat. Nos.	Width x Depth (mm)
		Flat 90° bends
4	6377 02	75 x 50
4	6377 12	100 x 50
4	6377 22	150 x 50
2	6377 32	200 x 50
2	6377 42	300 x 50
1	6377 52	400 x 50
		Flat 90° bends with cover
4	6377 03	75 x 50
4	6377 13	100 x 50
4	6377 23	150 x 50
2	6377 33	200 x 50
2	6377 43	300 x 50
1	6377 53	400 x 50

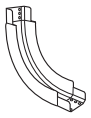


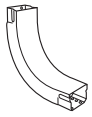


(1) Number of metres in a pack

Fittings (continued)

Pack	Cat. Nos.	Width x Depth (mm)
		Inside 90° risers
4	6377 04	75 x 50
4	6377 14	100 x 50
4	6377 24	150 x 50
2	6377 34	200 x 50
2	6377 44	300 x 50
1	6377 54	400 x 50
		Inside 90° risers with cover
4	6377 05	75 x 50
4	6377 15	100 x 50
4	6377 25	150 x 50
2	6377 35	200 x 50
2	6377 45	300 x 50
1	6377 55	400 x 50
		Outside 90° risers
4	6377 06	75 x 50
4	6377 16	100 x 50
4	6377 26	150 x 50
2	6377 36	200 x 50
2	6377 46	300 x 50
1	6377 56	400 x 50
		Outside 90° risers with cover
4	6377 07	75 x 50
4	6377 17	100 x 50
4	6377 27	150 x 50
2	6377 37	200 x 50
2	6377 47	300 x 50
1	6377 57	400 x 50
		End caps
2	6377 08	75 x 50
2	6377 18	100 x 50
2	6377 28	150 x 50
2	6377 38	200 x 50
2	6377 48	300 x 50
2	6377 58	400 x 50
		Tee kits
4	6378 70	For 75 x 50
2	6378 71	For 100 x 50
2	6378 72	For 150 x 50
1	6378 73	For 200 x 50
1	6378 74	For 300 x 50
1	6378 75	For 400 x 50
		Tee intersection
2	6378 60	For 50 mm depth tray
		Divider
42(1)	6377 88	For 50 mm depth tray

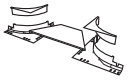




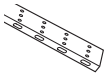






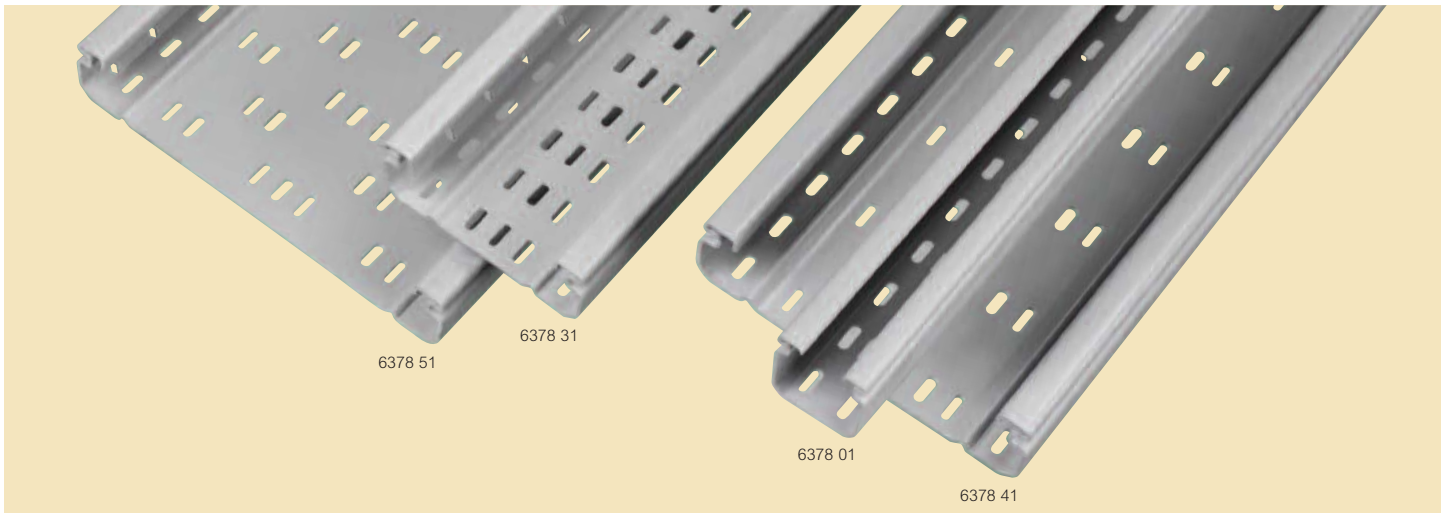






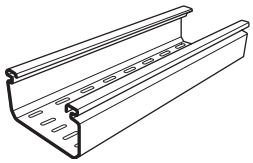
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

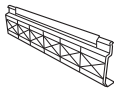
Swifts® PVC-U cable tray
75 mm depth



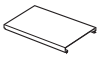
Selection chart (p. 254-255)
Technical information (p. 260-263)

Pack	Cat. Nos.	Straight lengths
		Conform to BS EN 61537 Length : 3 metres
		Width x Depth (mm)
		Perforated
24(1)	6378 01	75 x 75
18(1)	6378 11	100 x 75
12(1)	6378 21	150 x 75
6(1)	6378 31	200 x 75
6(1)	6378 41	300 x 75
6(1)	6378 51	400 x 75
		Couplers
20	6378 90	For 75 to 150 x 75
20	6378 91	For 200 to 400 x 75





Pack	Cat. Nos.	Covers
		Width (mm)
24(1)	6377 60	75
24(1)	6377 61	100
18(1)	6377 62	150
12(1)	6377 63	200
12(1)	6377 64	300
12(1)	6377 65	400



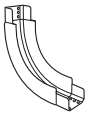
Pack	Cat. Nos.	Fittings
		Width x Depth (mm)
		Flat 90° bends
4	6378 02	75 x 75
4	6378 12	100 x 75
4	6378 22	150 x 75
2	6378 32	200 x 75
2	6378 42	300 x 75
1	6378 52	400 x 75
		Flat 90° bends with cover
4	6378 03	75 x 75
4	6378 13	100 x 75
4	6378 23	150 x 75
2	6378 33	200 x 75
2	6378 43	300 x 75
1	6378 53	400 x 75

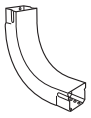




(1) Number of metres in a pack

Pack	Cat. Nos.	Fitting (continued)
		Width x Depth (mm)
		Inside 90° risers
4	6378 04	75 x 75
4	6378 14	100 x 75
4	6378 24	150 x 75
2	6378 34	200 x 75
2	6378 44	300 x 75
1	6378 54	400 x 75
		Inside 90° risers with cover
4	6378 05	75 x 75
4	6378 15	100 x 75
4	6378 25	150 x 75
2	6378 35	200 x 75
2	6378 45	300 x 75
1	6378 55	400 x 75
		Outside 90° risers
4	6378 06	75 x 75
4	6378 16	100 x 75
4	6378 26	150 x 75
2	6378 36	200 x 75
2	6378 46	300 x 75
1	6378 56	400 x 75
		Outside 90° risers with cover
4	6378 07	75 x 75
4	6378 17	100 x 75
4	6378 27	150 x 75
2	6378 37	200 x 75
2	6378 47	300 x 75
1	6378 57	400 x 75
		End caps
2	6378 08	75 x 75
2	6378 18	100 x 75
2	6378 28	150 x 75
2	6378 38	200 x 75
2	6378 48	300 x 75
2	6378 58	400 x 75
		Tee kits
4	6378 70	For 75 x 75
2	6378 71	For 100 x 75
2	6378 72	For 150 x 75
1	6378 73	For 200 x 75
1	6378 74	For 300 x 75
1	6378 75	For 400 x 75
		Tee intersection
2	6378 60	For 75 mm depth tray
		Divider
30(1)	6378 88	For 75 mm depth tray

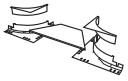




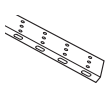






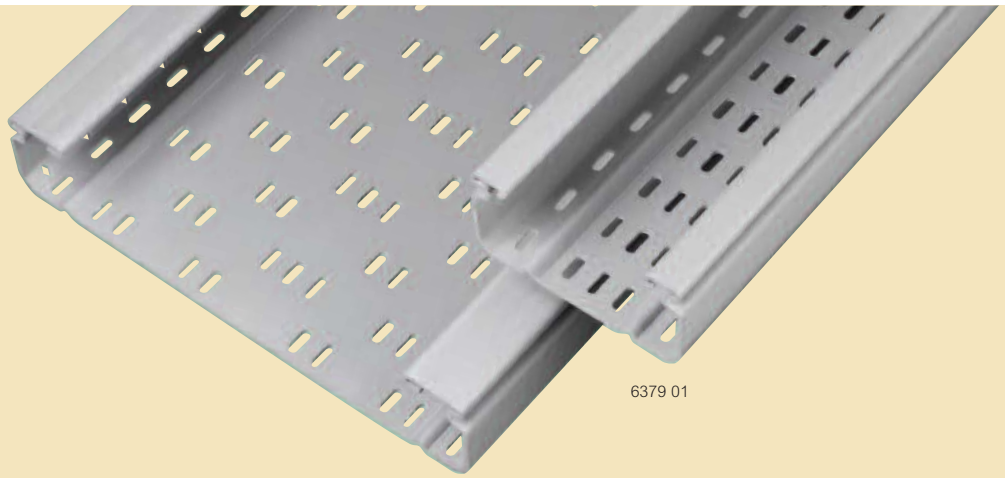






ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® PVC-U cable tray
100 mm depth

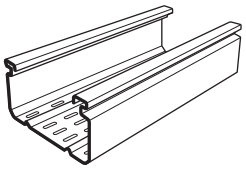


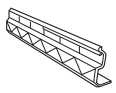
6379 01

6379 31

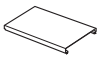
Selection chart (p. 254-255)
Technical information (p. 260-263)

Pack	Cat. Nos.	Straight lengths
		Conform to BS EN 61537 Length : 3 metres
		Width x Depth (mm)
		Perforated
6(1)	6379 01	200 x 100
6(1)	6379 11	300 x 100
6(1)	6379 21	400 x 100
6(1)	6379 31	500 x 100
6(1)	6379 41	600 x 100
		Coupler
20	6379 90	For 200 to 600 x 100

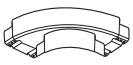


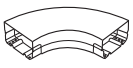


		Covers
		Width (mm)
12(1)	6377 63	200
12(1)	6377 64	300
12(1)	6377 65	400
12(1)	6379 63	500
12(1)	6379 64	600

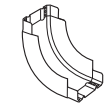


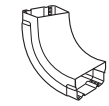
		Fittings
		Width x Depth (mm)
		Flat 90° bends
1	6379 02	200 x 100
1	6379 12	300 x 100
1	6379 22	400 x 100
1	6379 32	500 x 100
1	6379 42	600 x 100
		Flat 90° bends with cover
1	6379 03	200 x 100
1	6379 13	300 x 100
1	6379 23	400 x 100
1	6379 33	500 x 100
1	6379 43	600 x 100

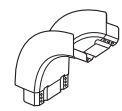


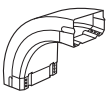


Pack	Cat. Nos.	Fittings (continued)
		Width x Depth (mm)
		Inside 90° risers
1	6379 04	200 x 100
1	6379 14	300 x 100
1	6379 24	400 x 100
1	6379 34	500 x 100
1	6379 44	600 x 100
		Inside 90° risers with cover
1	6379 05	200 x 100
1	6379 15	300 x 100
1	6379 25	400 x 100
1	6379 35	500 x 100
1	6379 45	600 x 100
		Outside 90° risers
1	6379 06	200 x 100
1	6379 16	300 x 100
1	6379 26	400 x 100
1	6379 36	500 x 100
1	6379 46	600 x 100
		Outside 90° risers with cover
1	6379 07	200 x 100
1	6379 17	300 x 100
1	6379 27	400 x 100
1	6379 37	500 x 100
1	6379 47	600 x 100
		End caps
2	6379 08	200 x 100
2	6379 18	300 x 100
2	6379 28	400 x 100
2	6379 38	500 x 100
2	6379 48	600 x 100
		Tee kits
1	6379 70	For 200 x 100
1	6379 71	For 300 x 100
1	6379 72	For 400 x 100
1	6379 73	For 500 x 100
1	6379 74	For 600 x 100
		Tee intersection
2	6379 60	For 100 mm depth tray
		Divider
24(1)	6379 88	For 100 mm depth tray

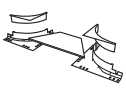




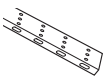








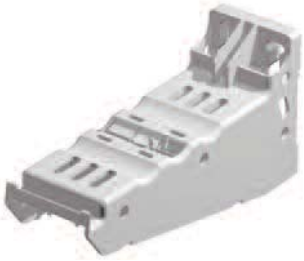




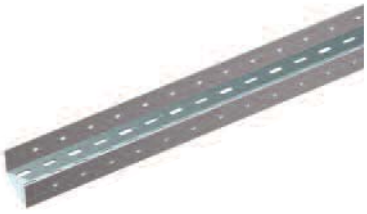
(1) Number of metres in a pack

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® PVC-U cable tray
supports and accessories


6377 69


6379 80


6379 50


6379 55


6377 74


6377 84


6379 85


6379 56

Selection chart (p. 254-255)
Technical information (p. 260-263)

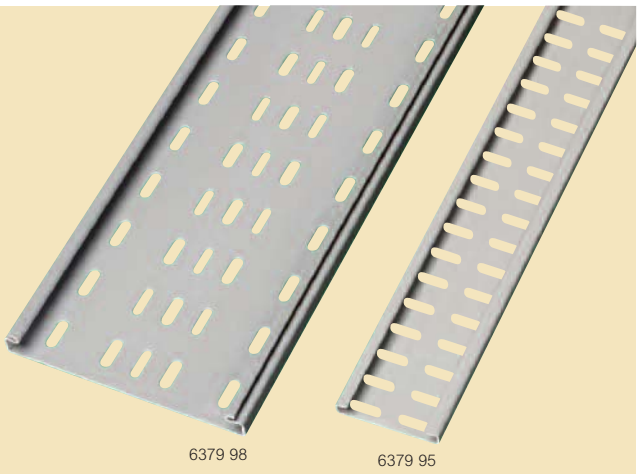
Pack	Cat. Nos.	Supports
		Cantilever arms
		PVC-U
		Width (mm)
8	6377 66	For 75/100
6	6377 67	For 150
4	6377 68	For 200
4	6377 69	For 300
		Steel - plastic coated
		Width (mm)
2	6379 68	For 200
2	6379 78	For 300
2	6379 79	For 400
2	6379 80	For 500
2	6379 81	For 600
		Trapeze hangers
		Width (mm)
8	6377 71	For 75/100
6	6377 72	For 150
4	6377 73	For 200
4	6377 74	For 300
4	6377 75	For 400
4	6379 76	For 500
4	6379 77	For 600
		Stand-off brackets
		Width (mm)
8	6377 81	75/100
6	6377 82	150
4	6377 83	200
4	6377 84	300
4	6377 85	400
4	6379 83	500
4	6379 84	600

Pack	Cat. Nos.	Accessories
		Pendant channels - length 2 m
8(1)	6379 50	PVC-U
8(1)	6379 86	Steel - plastic coated
		Fixing pins
100	6379 51	PVC-U M8
50	6379 52	Steel M8
		Nut and bolts
100	6379 53	PVC-U M8 x 20
100	6379 87	Stainless steel M8 x 20
		Rapid fix rivet
100	6379 54	Rivet
		Ceiling brackets
8	6379 55	PVC-U - 2 brackets required to be used with a pendant
6	6379 85	Steel - plastic coated
		Hinged couplers
20	6377 93	Width 75-150 mm
20	6379 93	Width 200-600 mm
		Tele rail
42(1)	6379 56	Length 2 m
		Tele rail end cap
20	6379 57	

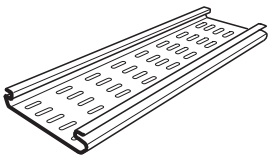
(1) Number of metres in a pack

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

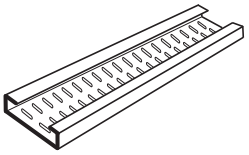
Swifts® PVC-U cable tray
data tray and telex rail : 17 mm depth



Pack	Cat. Nos.	Data tray
		Length : 3 metres
		Width x Depth (mm)
24(1)	6379 95	75 x 17
24(1)	6379 96	100 x 17
18(1)	6379 97	150 x 17
12(1)	6379 98	200 x 17



Pack	Cat. Nos.	Telex rail
		Length : 2 metres
		Width x Depth (mm)
20(1)	6379 94	50 x 17





PVC-U welding equipment available to special order

Contact us on 0845 605 4333

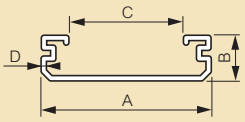
(1) Number of metres in pack

Swifts® PVC-U cable tray
technical information

■ Dimensions for 50, 75 and 100 mm depth trays

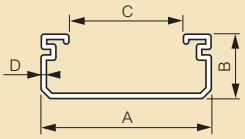
Perforation slot size 9 x 25 and 7 x 25 mm

Width 75 to 150 x Depth 50 mm



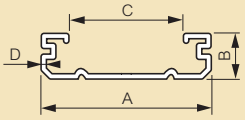
Cat. Nos. Perforated	A (mm)	B (mm)	C (mm)	D (mm)	Cable capacity (mm^2)
6377 01	75	50	32·4	2·1	2 862
6377 11	100	50	57	2·3	4 055
6377 21	150	50·2	106·6	2·6	6 366

Width 75 to 150 x Depth 75 mm



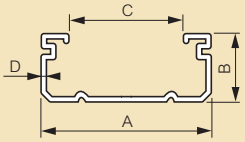
Cat. Nos. Perforated	A (mm)	B (mm)	C (mm)	D (mm)	Cable capacity (mm^2)
6378 01	75	75	32	2·3	4 622
6378 11	100	75	57	2·3	6 440
6378 21	150	75·3	106·2	2·7	9 961

Width 200 to 400 x Depth 50 mm



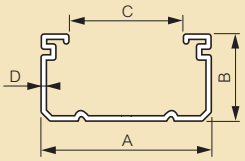
Cat. Nos. Perforated	A (mm)	B (mm)	C (mm)	D (mm)	Cable capacity (mm^2)
6377 31	200	50	136·6	2·5	7 934
6377 41	300	52	232·6	3·5	12 825
6377 51	400	53	330·6	4	17 821

Width 200 to 400 x Depth 75 mm



Cat. Nos. Perforated	A (mm)	B (mm)	C (mm)	D (mm)	Cable capacity (mm^2)
6378 31	200	75	138·8	2·8	12 690
6378 41	300	77	234·4	3·8	19 601
6378 51	400	77·8	332·8	4·2	26 879

Width 200 to 600 x Depth 100 mm



Cat. Nos. Perforated	A (mm)	B (mm)	C (mm)	D (mm)	Cable capacity (mm^2)
6379 01	200	100	130	3·8	16 979
6379 11	300	100·4	210	4	26 728
6379 21	400	101·4	300	4·5	36 468
6379 31	500	101·4	370	4·5	45 893
6379 41	600	102	470	4·8	55 206

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® PVC-U cable tray
technical information (continued)

■ Cable loading information

The table below gives safe working loads (SWL) in kgs/m over a 1·5 m span SWLs are acceptable up to 40 °C as test type 1 on the European test standard

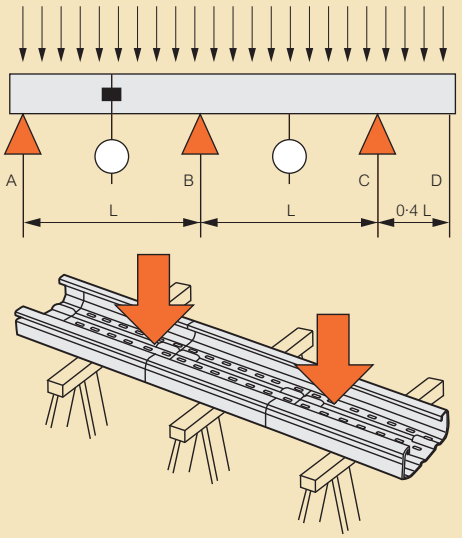
Profile widths (mm)	Profile depths (mm)		
75 to 150	Depth 50	Depth 75	
	Span 1·5 m	Span 1·5 m	
75	7	12	
100	10	16	
150	15·5	25	
200 to 600	Depth 50	Depth 75	Depth 100
	Span 1·5 m	Span 1·5 m	Span 1·5 m
200	19·5	35	42
300	27	48	66
400(1)	41	70	90
500(1)	–	–	113
600(1)	–	–	135·5

(1) Reinforcement across the joint using a tele rail marked during tests

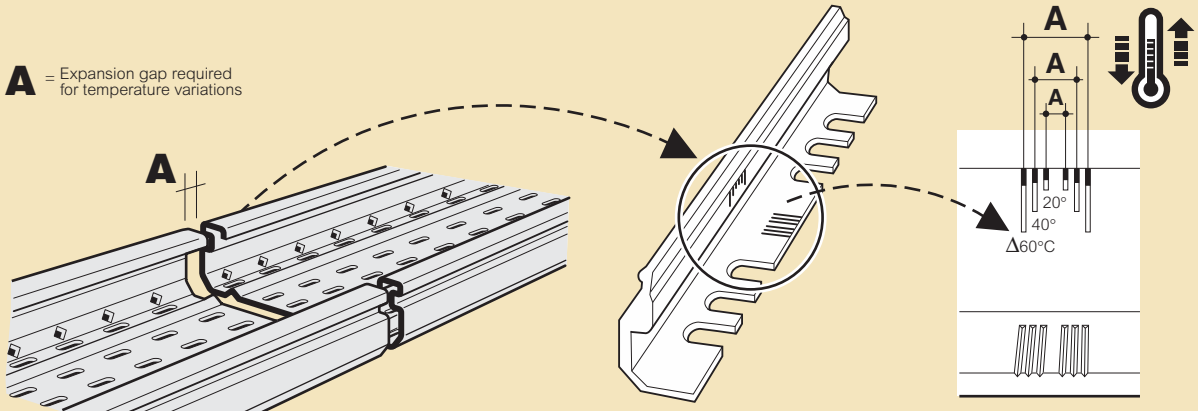
■ Safe working load test

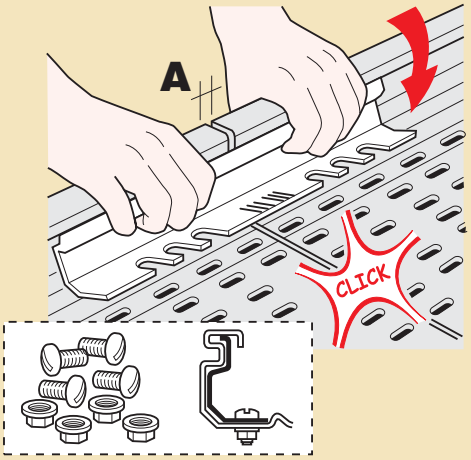
The test for cable loading conforms to BS EN 61537 test type 1
The following conditions apply to the test as shown in diagram below

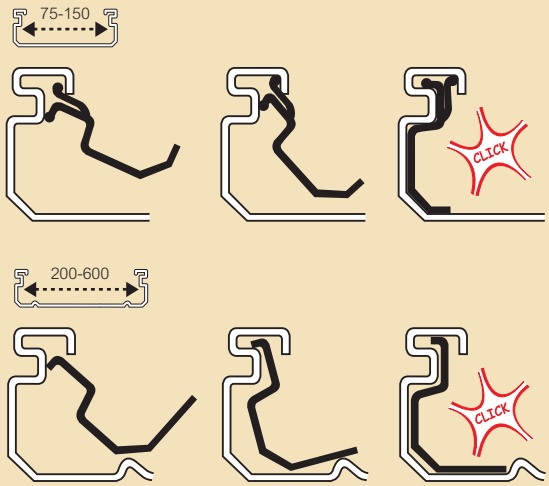
1. The cable tray is supported at 1·5 m spans and not fixed to supports during tests
2. The coupler joint is at the centre of support A – B
3. The fixing torque for coupler bolts is 2·5 Nm
4. The test load is a uniformed distributed load (UDL) over the test area of 2 spans and cantilever of 0·4 span
5. The longitudinal deflection on a span is limited to span length divided by 100
6. The transversal deflection reached in the centre of the cable tray bed is limited to bed width divided by 20



■ Couplers





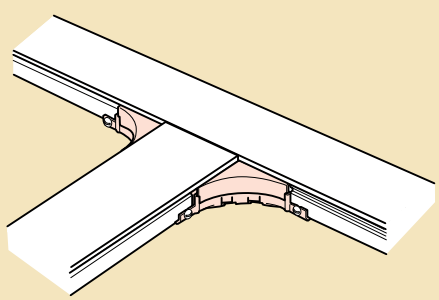


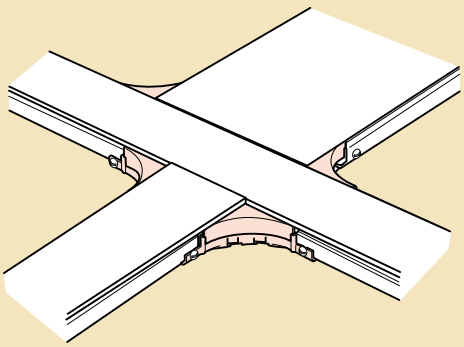
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

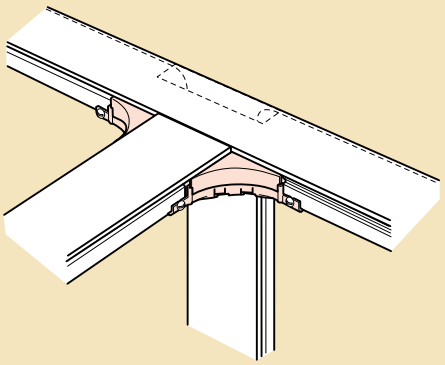
Swifts® PVC-U cable tray
technical information (continued)

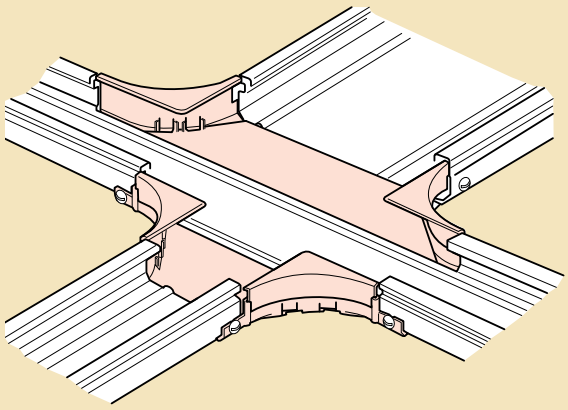
■ Tees and fittings

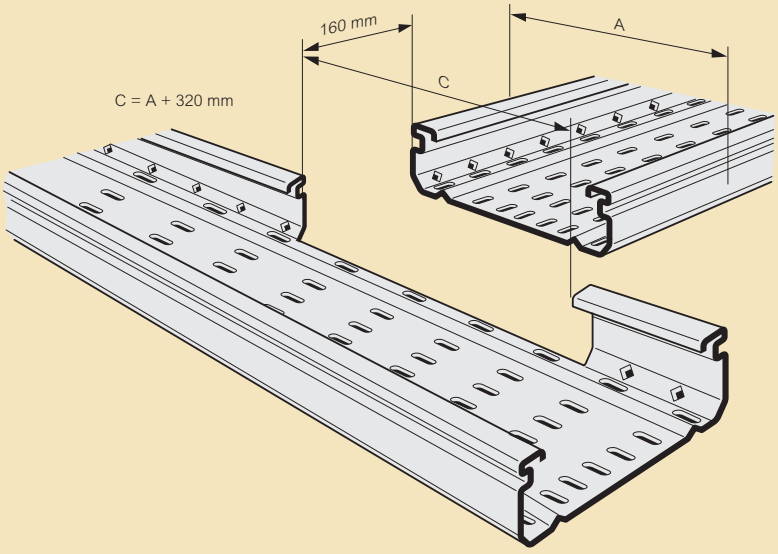
Typical applications and installation guide

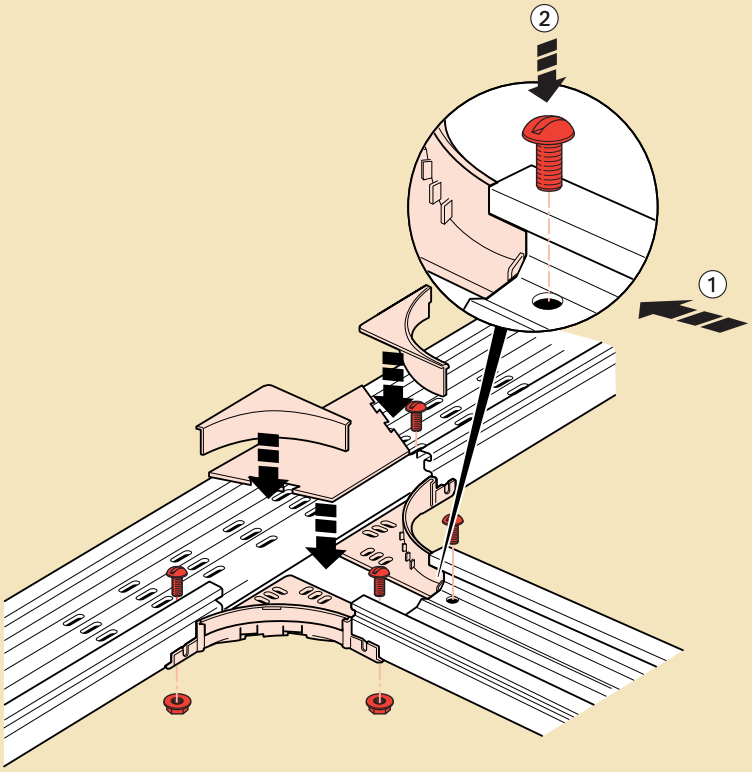




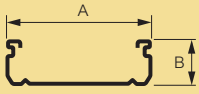








■ Tee kits

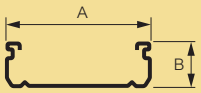


A x B (mm)		A x B (mm)		A x B (mm)	
75 x 50 75 x 75	6378 70	200 x 50 200 x 75	6378 73	400 x 50 400 x 75	6378 75
100 x 50 100 x 75	6378 71	200 x 100	6379 70	400 x 100	6379 72
		300 x 50 300 x 75	6378 74	500 x 100	6379 73
150 x 50 150 x 75	6378 72	300 x 100	6379 71	600 x 100	6379 74

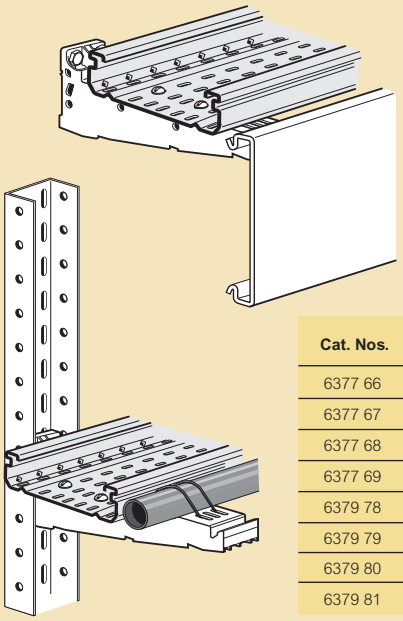
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Cantilever arms

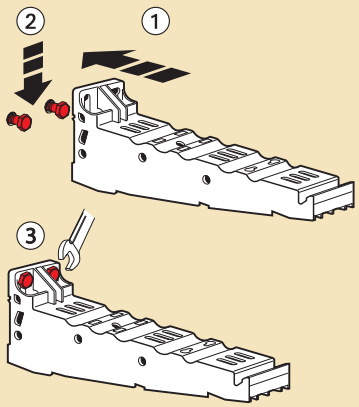
Typical applications and installation guide

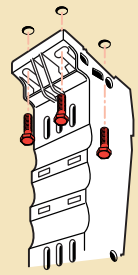


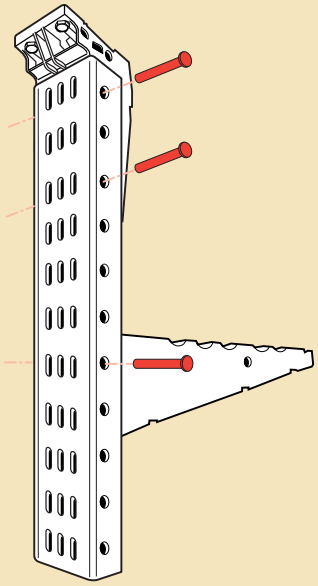
PVC		Steel - plastic coated	
A x B (mm)		A x B (mm)	
75 x 50 75 x 75 100 x 50 100 x 75	6377 66	300 x 50 300 x 75 300 x 100	6379 78
150 x 50 150 x 75	6377 67	400 x 50 400 x 75 400 x 100	6379 79
200 x 50 200 x 75 200 x 100	6377 68	500 x 100	6379 80
300 x 50 300 x 75 300 x 100	6377 69	600 x 100	6379 81

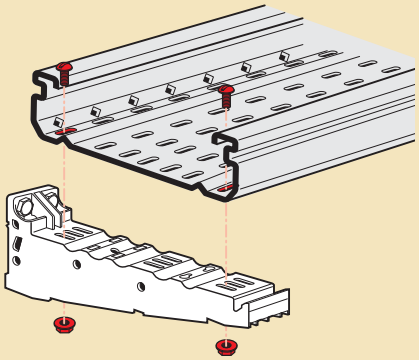


Cat. Nos.	Load (daN)
6377 66	25
6377 67	40
6377 68	65
6377 69	75
6379 78	100
6379 79	135
6379 80	170
6379 81	205

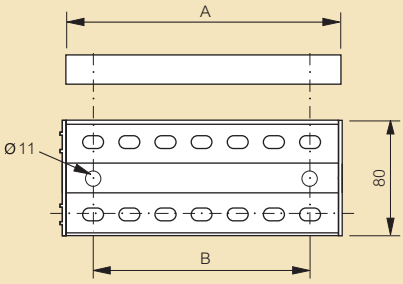






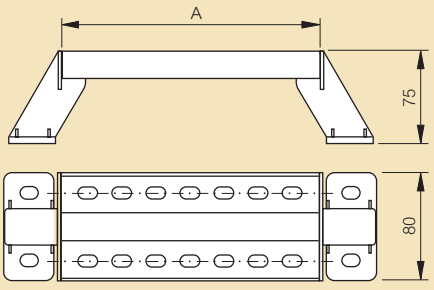


■ Trapeze hangers



Cat. Nos.	A (mm)	B (mm)	Load (daN)
6377 71	150	115	25
6377 72	200	165	40
6377 73	250	215	65
6377 74	350	315	100
6377 75	450	415	135
6379 76	550	515	170
6379 77	650	615	205

■ Stand-off brackets



Cat. Nos.	A (mm)
6377 81	100
6377 82	150
6377 83	200
6377 84	300
6377 85	400
6379 83	500
6379 84	600

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW...
new range, familiar name

The Swifts name is synonymous with quality for its market-leading cable ladder and cable tray systems. Building on this success, the Swifts SW range of steel wire cable tray is totally new to the UK market.



Going to great lengths

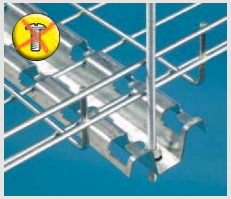
Swifts SW is supplied in straight lengths from which any installation can be formed without the need for additional fittings. All lengths have smooth edges that offer safe handling and prevent damage to cables. Three depths, three finishes, and widths from 50 to 600 mm... we've gone to great lengths to ensure that the latest member of the Swifts family measures up to the rest!



Installation example 1 :
Large radius bend with Faslock couplers and additional supports



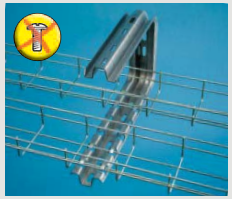
Installation example 2 :
Tee junction, plus two parallel runs for power and data cabling



Profile trapeze hanger with slot and tab assembly (slot together and bend tabs to secure SW tray)



Faslock couplers used to quickly secure bends without the need for clamping



Profile roof cantilever arm with slot and tab assembly



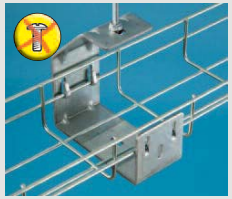
Tee junction created using fixing kits (Turbo A) with captive nuts and bolts for quicker installation



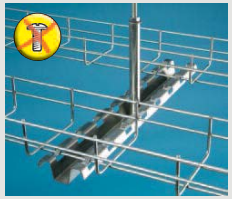
Preclic couplers used to create strong joints and maintain earth bonding when joining lengths



Base coupler with clip-on assembly for quick installation



Small central hanger with slot and tab assembly



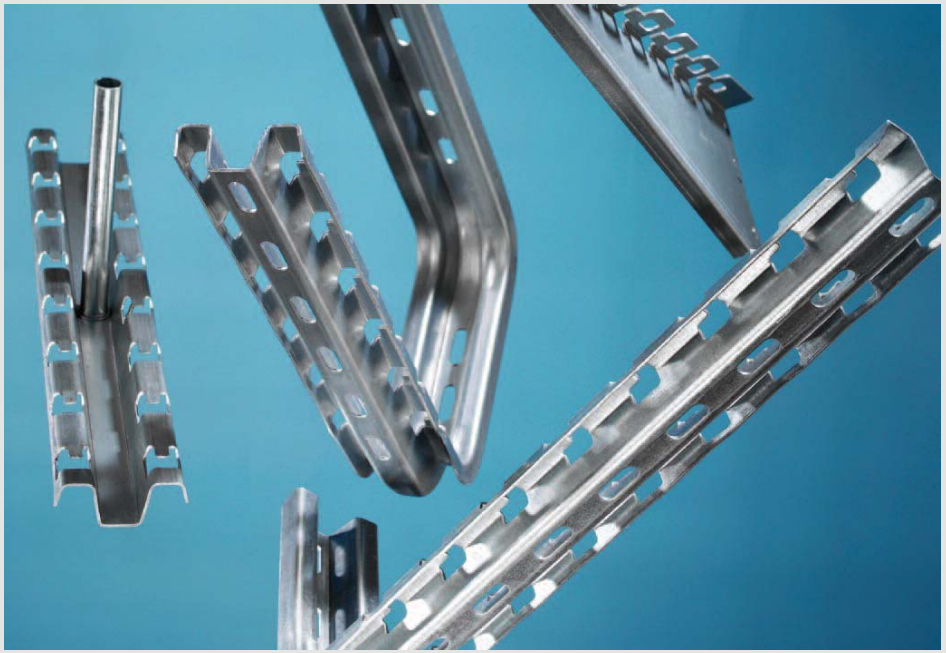
Large central hanger to enable dual runs of power and data

Slot and tab design enables SW tray to be secured directly to fittings without the need for nuts and bolts

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Support for all

Swifts SW incorporates a vast range of supports for walls, floors and ceilings that can accommodate SW tray without the need for fixings. Slot-together assembly and folding tabs create and secure an installation in an instant... the ultimate in strength, speed and flexibility.



A range to suit any environment

Swifts SW is available in three different finishes, a choice which makes it suitable for any installation :

Electroplated zinc :
for all internal applications

Hot dip galvanised :
for general external environments

Stainless steel :
for the most demanding environments (such as food and petro-chemical)



Installation example 3 :
Riser, pendant supports and vertical wall mounting



Installation example 4 :
Swiftrack channel support framework and earth bonding



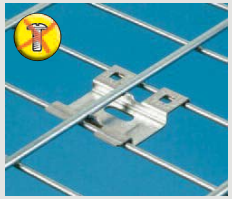
Vertical wall bracket to provide strong support for all sizes of SW tray



Slot and tab pendant mounting plate for quick assembly and strong support



Earth conductor clamp to provide effective earth bonding



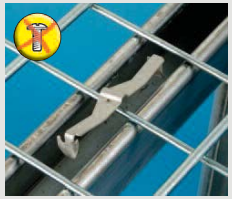
Base coupler mounted anywhere along SW lengths to suspend luminaires



Cantilever arm with slot and tab assembly



Extra large mounting plate designed to fit large accessories



Fastrut fixing clips used to secure SW tray to Swiftrack channel



Side mounting plates to enable quick fixing of accessories

Slot and tab design enables SW tray to be secured directly to fittings without the need for nuts and bolts

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray

TRAY LENGTHS

Width (mm)	28 mm depth electroplated zinc	28 mm depth hot dip galvanised	28 mm depth stainless steel	52 mm depth electroplated zinc	52 mm depth hot dip galvanised	52 mm depth stainless steel	102 mm depth electroplated zinc	102 mm depth hot dip galvanised	102 mm depth stainless steel
50	CM540050	CM542050	CM000014	CM541050	CM543050	CM000064	–	–	–
100	CM540100	CM542100	CM000024	CM541100	CM543100	CM000074	CM746621	CM746623	CM000894
150	CM540150	CM542150	CM000034	CM541150	CM543150	CM000084	–	–	–
200	CM540200	CM542200	CM000044	CM541200	CM543200	CM000094	CM746641	CM746643	CM000914
300	CM540300	CM542300	CM000054	CM541300	CM543300	CM000104	CM746661	CM746663	CM000924
400	–	–	–	CM541400	CM543400	CM000204	CM746681	CM746683	CM000934
450	–	–	–	CM541450	CM543450	CM000254	–	–	–
500	–	–	–	CM541500	CM543500	CM000304	CM746701	CM746703	CM000944
600	–	–	–	CM541600	CM543600	CM000404	CM746721	–	–

COVERS

Covers 3 x 1 m electroplated zinc	Covers 3 x 1 m hot dip galvanised	Covers 3 x 1 m stainless steel
CM629050	CM629053	CM629054
CM629100	CM629103	CM629104
CM629150	CM629153	CM629154
CM629200	CM629203	CM629204
CM629300	CM629303	CM629304
CM629400	CM629403	CM629404
CM629450	CM629453	CM629454
CM629500	CM629503	CM629504
CM629600	CM629603	CM629604

DIVIDERS

Depth (mm)	Dividers – 3 m pre-galvanised	Dividers – 3 m hot dip galvanised	Dividers – 3 m stainless steel
28	CM923010	CM923013	CM923014
52	CM923020	CM923023	CM923024
102	CM923040	CM923043	CM923044

DIVIDER CONNECTORS

Pre-galvanised	Dacromet	Stainless steel
CM923050	CM923057	CM923054

FIXINGS AND FASTENINGS

Finish	Preclic couplers	EZR couplers	Joint strips 275 mm	Faslock S	Faslock XL	Luminaire support (base coupler)	Nuts and coach bolts	Hold down clamps	Turbo kits (A)	Turbo kits (B)	Fixing kits (A)	Fixing kits (B)
Electroplated zinc	–		CM558221	–	–	–	CM801011	CM558051	CM558071	CM558061	CM558081	CM558091
Hot dip galvanised	CM558103	CM558123	CM558223	–	–	–	–	–	–	–	–	–
Pre-galvanised	CM558100	CM558120	–	CM558340	CM558320	CM558410	–	–	–	–	–	–
Stainless steel	CM558104	CM558124	CM558224	CM558344	CM558324	CM558414	CM801014	CM558054	–	–	CM558084	CM558094
Dacromet	–	–	–	CM558347	CM558327	CM558417	CM801017	CM558053	CM558077	CM558067	CM558087	CM558097

FIXINGS AND FASTENINGS

Finish	Channel strut clip	Corner assembly[2] (28 mm)	Universal mounting plates	Base fixing plates	Universal base fixing plates	Stand-off brackets	Floor mount brackets	Channel fixing plates	Vertical wall brackets	Central hangers[2] (50 mm)	Central hangers[3] (200 mm)	Suspension plates	Suspension hooks
Electroplated zinc	–	CM840101	–	–	–	–	–	–	–	–	–	–	–
Hot dip galvanised	–	–	CM586063	CM586043	–	CM586173	CM586083	–	CM586073	CM586143	–	–	CM586023
Pre-galvanised	–	–	CM586060	CM586040	CM586180	CM586170	CM586080	CM586190	CM586070	CM586140	CM586200	CM586031	CM586020
Stainless steel	CM599007	–	CM586064	CM586044	CM586184	CM586174	CM586084	CM586194	CM586074	CM586144	–	–	CM586024
Dacromet	–	–	–	–	CM586183	–	–	CM586197	–	–	–	CM586037	–

PROFILE BRACKETS

For tray widths (mm)	Profile cantilever arms pre-galvanised	Profile cantilever arms hot dip galvanised	Profile cantilever arms stainless steel	Profile roof cantilever arms pre-galvanised	Profile roof cantilever arms hot dip galvanised	Profile roof cantilever arms stainless steel	Profile trapeze hangers pre-galvanised	Profile trapeze hangers hot dip galvanised	Profile trapeze hangers stainless steel
50	–	–	–	–	–	–	CM013150	CM013153	CM013154
100	CM556100	CM556103	CM556104	CM556300	CM556303	CM556304	CM013200	CM013203	CM013204
150	CM556110	CM556113	CM556114	CM556310	CM556313	CM556314	CM013300	CM013303	CM013304
200	CM556120	CM556123	CM556124	CM556320	CM556323	CM556324	CM013300	CM013303	CM013304
300	CM556130	CM556133	CM556134	CM556330	CM556333	–	CM013400	CM013403	CM013404
400	CM556140	CM556143	–	CM556340	CM556343	–	CM013500	CM013503	CM013504
450	CM556150	CM556153	–	CM556350	CM556353	–	CM013600	CM013603	CM013604
500	–	–	–	–	–	–	CM013600	CM013603	CM013604
1 000[1]	–	–	–	–	–	–	CM013010	CM013013	CM013014
3 000[1]	–	–	–	–	–	–	CM013030	CM013033	CM013034

ANCILLARY ITEMS

Finish	Earth terminal supports	Profile strut back plates	Universal conduit take-off plates	Conduit take-off plate – side	Switch box take-off plates	Terminal box fixing plate	Universal side plate – large	Universal side plate – small	Cable dropout plates
Hot dip galvanised	CM585093	CM557803	–	–	–	–	CM586133	CM586063	–
Pre-galvanised	CM585090	CM557800	CM585410	CM585110	CM585130	CM585120	CM586130	CM586060	CM585160
Stainless steel	CM585094	CM557804	–	CM585114	CM585134	–	CM586134	CM586064	CM585164
Dacromet	–	–	CM585417	–	–	–	–	–	CM585167

PENDANTS

Pendant lengths (mm)	Profile pendant pre-galvanised	Profile pendant hot dip galvanised	Pendant mounting plate (for all lengths)
300	CM561310	CM561313	CM561080
600	CM557610	CM557613	CM561080
1 000	CM561090	CM561093	CM561080
2 000	CM561010	CM561013	CM561080
3 000	CM561020	CM561023	CM561080

ANCILLARY ITEMS (continued)

Earth connector clamp – copper[3]	CM585387
Earth cable clamp – aluminium	CM585327
Earth cable support	CM585080
Lighting bracket 50 mm	CM585180
Lighting bracket 100 mm	CM585190
Croppers	CM559507

STANDARD BRACKETS

For tray widths (mm)	Cantilever arms pre-galvanised	Cantilever arms hot dip galvanised	Cantilever arms stainless steel	Cantilever arms for pendant mounting
50	CM557400	CM557403	CM557404	–
100	CM557410	CM557413	CM557414	CM557920
150	CM557420	CM557423	CM557424	CM557930
200	CM557430	CM557433	CM557434	CM557940
300	CM557440	CM557443	CM557444	CM557950
400	CM557450	CM557453	CM557454	–
500	CM557460	CM557463	CM557464	–
600	CM557470	CM557473	CM557474	–

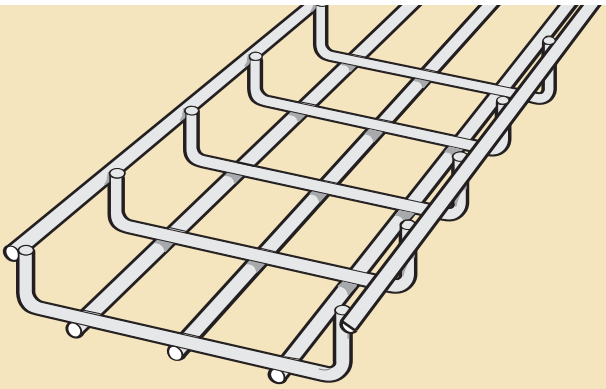
MULTIFIX BASE PLATES

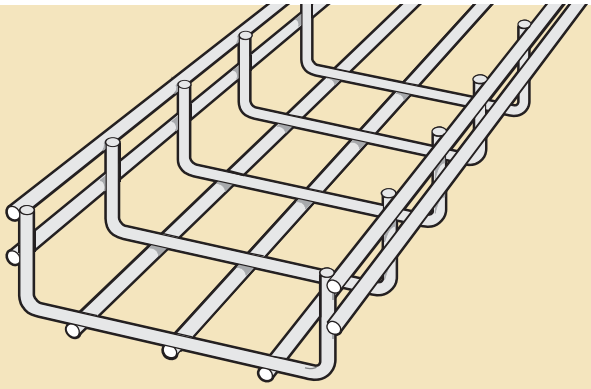
For tray widths (mm)	Pre-galvanised	Hot dip galvanised	Stainless steel
100	CM585140	CM585143	CM585144
150	CM585150	CM585153	CM585154

(1) 1 000 and 3 000 refers to hanger widths which can be cut to size on site
(2) For other sizes (see p. 273)
(3) For other sizes (see p. 276)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
tray lengths


CM540150

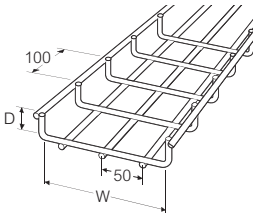

CM541150

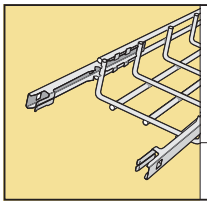
Dimensions and technical information (p. 277–287)

Tray lengths – 3 m

28 mm tray

Pack	Cat. Nos.	Internal width (W) (mm)		Internal depth (D) (mm))
	EZ			
1	CM540050	50	x	28
1	CM540100	100	x	28
1	CM540150	150	x	28
1	CM540200	200	x	28
1	CM540300	300	x	28
	GC			
1	CM542050	50	x	28
1	CM542100	100	x	28
1	CM542150	150	x	28
1	CM542200	200	x	28
1	CM542300	300	x	28
	SS			
1	CM000014	50	x	28
1	CM000024	100	x	28
1	CM000034	150	x	28
1	CM000044	200	x	28
1	CM000054	300	x	28





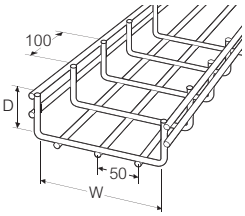
For the complete selection of couplers and fixings

see p. 272–273

Tray lengths – 3 m (continued)

52 mm tray

Pack	Cat. Nos.	Internal width (W) (mm)		Internal depth (D) (mm))
	EZ			
1	CM541050	50	x	52
1	CM541100	100	x	52
1	CM541150	150	x	52
1	CM541200	200	x	52
1	CM541300	300	x	52
1	CM541400	400	x	52
1	CM541450	450	x	52
1	CM541500	500	x	52
1	CM541600	600	x	52
	GC			
1	CM543050	50	x	52
1	CM543100	100	x	52
1	CM543150	150	x	52
1	CM543200	200	x	52
1	CM543300	300	x	52
1	CM543400	400	x	52
1	CM543450	450	x	52
1	CM543500	500	x	52
1	CM543600	600	x	52
	SS			
1	CM000064	50	x	52
1	CM000074	100	x	52
1	CM000084	150	x	52
1	CM000094	200	x	52
1	CM000104	300	x	52
1	CM000204	400	x	52
1	CM000254	450	x	52
1	CM000304	500	x	52
1	CM000404	600	x	52

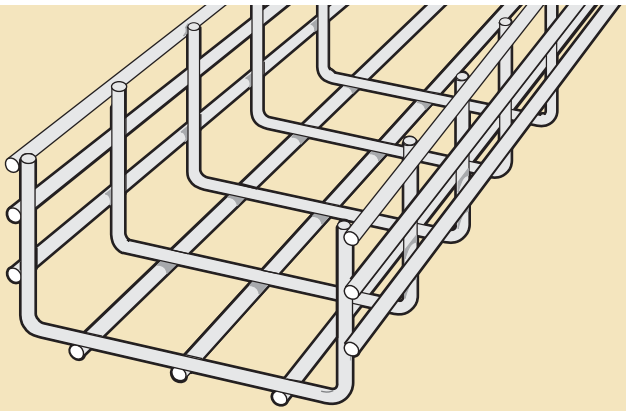


Tray depth	Coupling options (straight lengths)	Quantity required per joint (for width as shown)								
		50	100	150	200	300	400	450	500	600
28 mm	Preclic couplers	–	–	–	–	–	–	–	–	–
	EZR couplers	2	2	2	3	3	–	–	–	–
	275 mm joint strips	2	2	2	3	3	–	–	–	–
	+ fixing kits (B or turbo B)	2	2	3	3	4	–	–	–	–
	Fixing kits (A or turbo A)	2	2	3	3	4	–	–	–	–
52 mm	Preclic couplers	2	2	2	2	3	4	4	4	5
	EZR couplers	2	2	2	2	3	4	4	4	5
	275 mm joint strips	2	2	2	2	3	4	4	4	5
	+ fixing kits (B or turbo B)	2	2	3	3	4	4	4	4	5
	Fixing kits (A or turbo A)	2	2	3	3	4	4	4	4	5
102 mm	Preclic couplers	–	2	–	2	4	–	–	–	5
	EZR couplers	–	3	–	2	4	5	–	5	5
	275 mm joint strips	–	3	–	3	3	5	–	5	5
	+ fixing kits (B or turbo B)	–	3	–	3	4	5	–	5	5
	Fixing kits (A or turbo A)	–	3	–	3	4	5	–	5	5

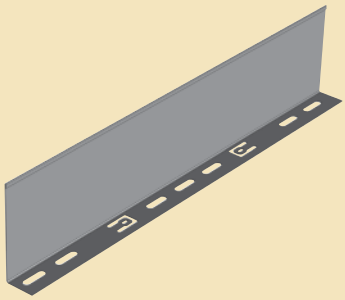
Note : The first two couplings are always made on each side of the tray. Where more than two couplings are required, couplers and fixing strips fitted to the base of the tray can be substituted by a base coupler (luminaire support) see p. 272

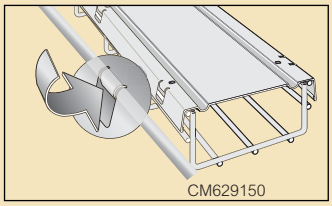
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

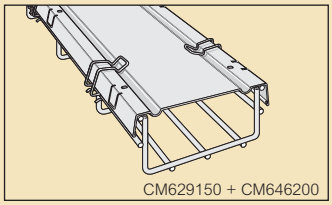
Swifts® SW steel wire cable tray
tray lengths (continued) and ancillary items


CM746641

Swifts® SW steel wire cable tray
ancillary items (continued)


CM923040


CM629150

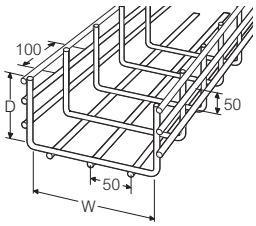

CM629150 + CM646200

Dimensions and technical information (p. 277–287)

Tray lengths – 3 m (continued)

102 mm tray

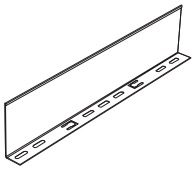
Pack	Cat. Nos.	Internal width (W) (mm)		Internal depth (D) (mm))
	EZ			
1	CM746621	100	x	102
1	CM746641	200	x	102
1	CM746661	300	x	102
1	CM746681	400	x	102
1	CM746701	500	x	102
1	CM746721	600	x	102
	GC			
1	CM746623	100	x	102
1	CM746643	200	x	102
1	CM746663	300	x	102
1	CM746683	400	x	102
1	CM746703	500	x	102
	SS			
1	CM000894	100	x	102
1	CM000914	200	x	102
1	CM000924	300	x	102
1	CM000934	400	x	102
1	CM000944	500	x	102



Ancillary items

Dividers – 3 m

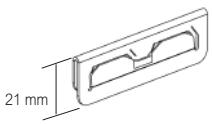
Pack	Cat. Nos.	
	GS	
1	CM923010	For tray depth 28 mm
1	CM923020	For tray depth 52 mm
1	CM923040	For tray depth 102 mm
	GC	
1	CM923013	For tray depth 28 mm
1	CM923023	For tray depth 52 mm
1	CM923043	For tray depth 102 mm
	SS	
1	CM923014	For tray depth 28 mm
1	CM923024	For tray depth 52 mm
1	CM923044	For tray depth 102 mm



Divider connectors

Universal connector for all divider depths

Pack	Cat. Nos.
	GS
1	CM923050
	DC
1	CM923057
	SS
1	CM923054

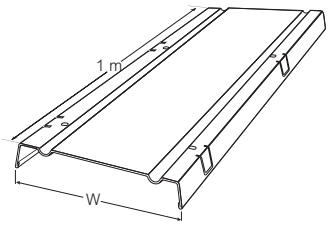


Ancillary items (continued)

Covers

Supplied in packs of 3 x 1 m
Can be fitted directly with integral tabs or alternatively with optional clips below

Pack	Cat. Nos.	Width (W) (mm)
	GS	
1	CM629050	50
1	CM629100	100
1	CM629150	150
1	CM629200	200
1	CM629300	300
1	CM629400	400
1	CM629450	450
1	CM629500	500
1	CM629600	600
	GC	
1	CM629053	50
1	CM629103	100
1	CM629153	150
1	CM629203	200
1	CM629303	300
1	CM629403	400
1	CM629453	450
1	CM629503	500
1	CM629603	600
	SS	
1	CM629054	50
1	CM629104	100
1	CM629154	150
1	CM629204	200
1	CM629304	300
1	CM629404	400
1	CM629454	450
1	CM629504	500
1	CM629604	600



Clips

Supplied in a pack of 25

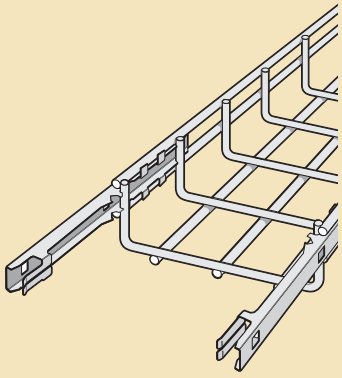
Pack	Cat. Nos.	
	GS	
1	CM646220	For tray depth 28 mm
1	CM646200	For tray depth 52 and 102 mm
	SS	
1	CM646224	For tray depth 28 mm
1	CM646204	For tray depth 52 and 102 mm

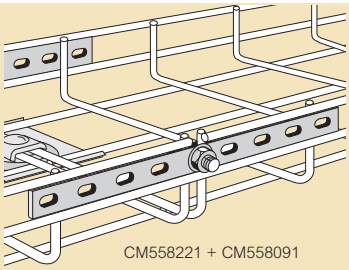


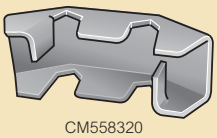
FINISHES :
EZ Electroplated zinc
GC Hot dip galvanised after manufacture to BS EN ISO 1461 (formerly BS729)
GS Pre-galvanised steel to BS EN 10327 : Grade DX51D
SS Stainless steel to BS EN 10088 : Number 1·4401 (equivalent to 316L)
DC Dacromet

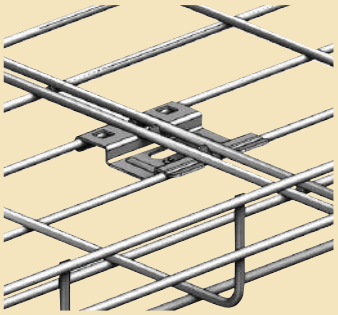
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

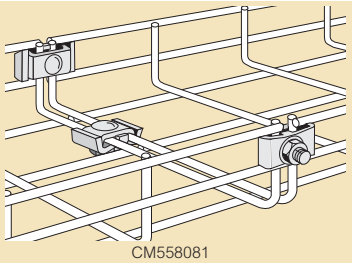
Swifts® SW steel wire cable tray
couplers and fixings


CM558100


CM558221 + CM558091


CM558320


CM558410


CM558081

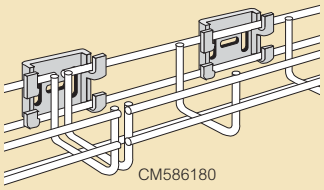
Dimensions and technical information (p. 282–283)

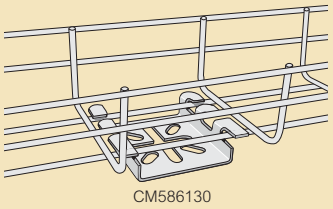
Pack	Cat. Nos.	Couplers
		Preclic couplers
	GS	
1	CM558100	Supplied singly
	GC	
1	CM558103	Supplied singly
	SS	
1	CM558104	Supplied singly
		EZR couplers
		Note : quantities of 50 or more are supplied with fixing tool CM558110
	GS	
1	CM558120	Supplied singly
	GC	
1	CM558123	Supplied singly
	SS	
1	CM558124	Supplied singly
		EZR couplers fixing tool
1	CM558110	Fixing tool for EZR
		Joint strips
	EZ	
1	CM558221	275 mm – supplied in packs of 50
1	CM558201	1100 mm – supplied in packs of 10
	GC	
1	CM558223	275 mm – supplied in packs of 50
1	CM558203	1100 mm – supplied in packs of 10
	SS	
1	CM558224	275 mm – supplied in packs of 50
1	CM558204	1100 mm – supplied in packs of 10
		Faslock
	GS	Supplied in packs of 25
1	CM558340	S up to 200 mm widths
1	CM558320	XL 300 mm widths and above
	DC	
1	CM558347	S up to 200 mm widths
1	CM558327	XL 300 mm widths and above
	SS	
1	CM558344	S up to 200 mm widths
1	CM558324	XL 300 mm widths and above
		Luminaire support
	GS	Can also be used as a base coupler
1	CM558410	
	DC	
1	CM558417	
	SS	
1	CM558414	

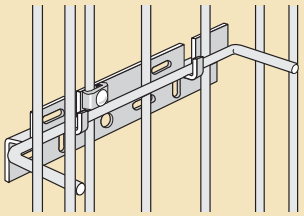
Pack	Cat. Nos.	Fixings
		Nuts and coach bolts
	EZ	Supplied in packs of 100
1	CM801011	M6 x 20
	DC	
1	CM801017	M6 x 20
	SS	
1	CM801014	M6 x 20
		Hold down clamp
	EZ	
1	CM558051	Supplied in packs of 25
	DC	
1	CM558053	Supplied in packs of 25
	SS	
1	CM558054	Supplied in packs of 25
		Turbo kits A
		Kits comprise large clamp plate with integrated nut and small clamp plate with integrated bolt
	EZ	
1	CM558071	Supplied in packs of 50
	DC	
1	CM558077	Supplied in packs of 50
		Turbo kits B
		Kits comprise small clamp plate with integrated bolt and M6 nut
	EZ	
1	CM558061	Supplied in packs of 50
	DC	
1	CM558067	Supplied in packs of 50
		Fixing kits A
		Kits comprise large clamp plate, small clamp plate, M6 nut and M6 x 20 coach bolt
	EZ	
1	CM558081	Supplied in packs of 50
	DC	
1	CM558087	Supplied in packs of 50
	SS	
1	CM558084	Supplied in packs of 50
		Fixing kits B
		Kits comprise small clamp plate, M6 nut and M6 x 20 coach bolt
	EZ	
1	CM558091	Supplied in packs of 50
	DC	
1	CM558097	Supplied in packs of 50
	SS	
1	CM558094	Supplied in packs of 50
		Channel strut clip
	DC	
1	CM599007	Supplied in packs of 50

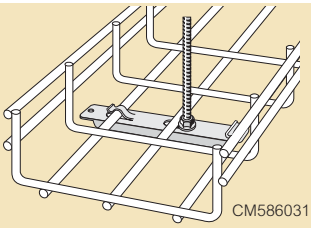
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

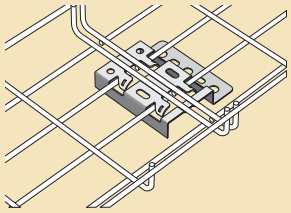
Swifts® SW steel wire cable tray
fixings (continued) and supports

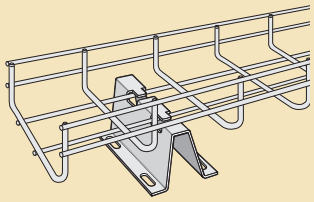

CM586180

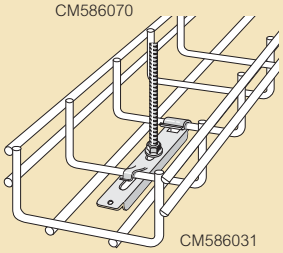

CM586130

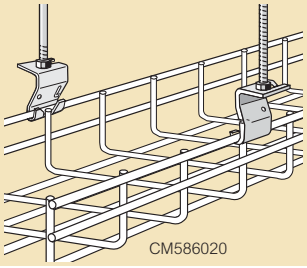

CM586070


CM586031


CM586170


CM586080

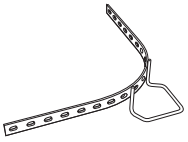

CM586031

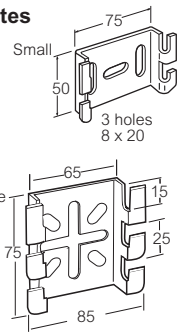

CM586020

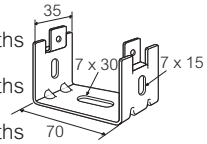
Dimensions and technical information (p. 284)

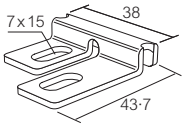
Fixings (continued)

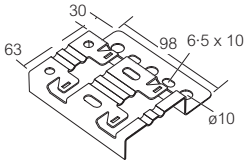
Pack	Cat. Nos.	
		Corner assembly
	EZ	
1	CM840101	28 mm depth
1	CM840111	52 mm depth
1	CM840131	102 mm depth
		Universal mounting plates
		Not suitable for 28 mm tray depth
	GS	
1	CM586060	Small
1	CM586130	Large
	GC	
1	CM586063	Small
1	CM586133	Large
	SS	
1	CM586064	Small
1	CM586134	Large
		Base fixing plates
		For 50 mm widths only
	GS	
1	CM586040	For 28 and 52 mm depths
	GC	
1	CM586043	For 28 and 52 mm depths
	SS	
1	CM586044	For 28 and 52 mm depths
		Universal base fixing plates
	GS	
1	CM586180	Flush fitting
	DC	
1	CM586183	Flush fitting
	SS	
1	CM586184	Flush fitting
		Stand-off brackets
	GS	
1	CM586170	15 mm depth
	DC	
1	CM586173	15 mm depth
	SS	
1	CM586174	15 mm depth
		Floor mount brackets
	GS	
1	CM586080	55 mm depth
	GC	
1	CM586083	55 mm depth
	SS	
1	CM586084	55 mm depth

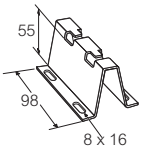




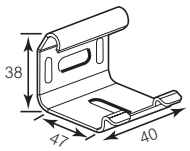








Pack	Cat. Nos.	
		Channel fixing plates
	GS	
1	CM586190	40 mm width
	DC	
1	CM586197	40 mm width
	SS	
1	CM586194	40 mm width

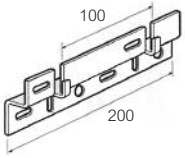


Supports

Vertical wall brackets

For vertically mounting tray widths 150 mm and above. Use in conjunction with fixing kits (B), see p. 272

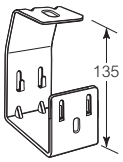
	GS	
1	CM586070	30 mm depth
	GC	
1	CM586073	30 mm depth
	SS	
1	CM586074	30 mm depth



Central hangers

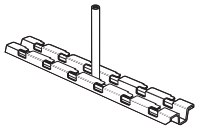
For use with 50 and 100 mm tray widths

	GS	
1	CM586140	50 mm
1	CM586100	100 mm
	GC	
1	CM586143	50 mm
1	CM586103	100 mm
	SS	
1	CM586144	50 mm
1	CM586104	100 mm

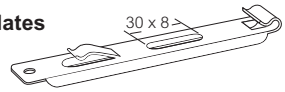


For use with 200 mm trays widths and above

	GS	
1	CM586200	200 mm
1	CM586300	300 mm
1	CM586400	400 mm
1	CM586450	450 mm
1	CM586500	500 mm
1	CM586600	600 mm



Suspension plates



	GS	
1	CM586031	For 100 and 200 mm tray widths
	DC	
1	CM586037	For 100 and 200 mm tray widths

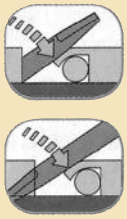
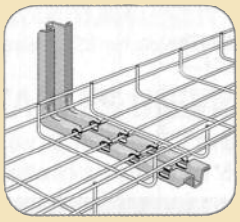
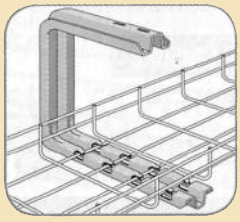
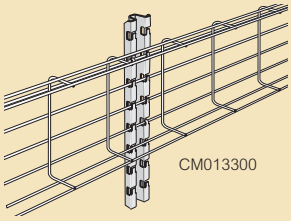
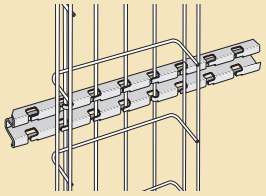
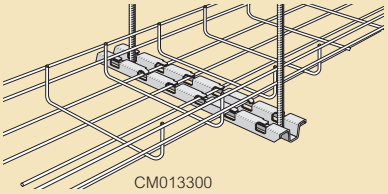
Suspension hooks

	GS	
1	CM586020	For all tray widths
	GC	
1	CM586023	For all tray widths
	SS	
1	CM586024	For all tray widths



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
profile brackets

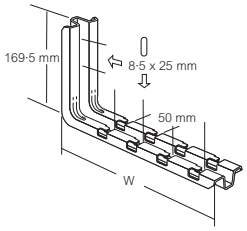


CM556120

CM556320

CM013300

CM013300

CM013300

Dimensions and technical information (p. 285)

Brackets

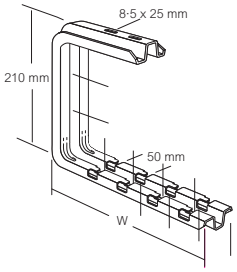
Profile cantilever arms

Pack	Cat. Nos.	For tray width (mm)	Actual width (W) (mm)
	GS		
1	CM556100	100	178
1	CM556110	150	228
1	CM556120	200	278
1	CM556130	300	378
1	CM556140	400	478
1	CM556150	450	528
	GC		
1	CM556103	100	178
1	CM556113	150	228
1	CM556123	200	278
1	CM556133	300	378
1	CM556143	400	478
1	CM556153	450	528
	SS		
1	CM556104	100	178
1	CM556114	150	228
1	CM556124	200	278
1	CM556134	300	378



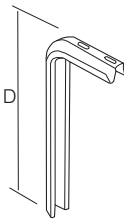
Profile roof cantilever arms

Pack	Cat. Nos.	For tray width (mm)	Actual width (W) (mm)
	GS		
1	CM556300	100	178
1	CM556310	150	228
1	CM556320	200	278
1	CM556330	300	378
1	CM556340	400	478
1	CM556350	450	528
	GC		
1	CM556303	100	178
1	CM556313	150	228
1	CM556323	200	278
1	CM556333	300	378
1	CM556343	400	478
1	CM556353	450	528
	SS		
1	CM556304	100	178
1	CM556314	150	228
1	CM556324	200	278



Profile pendants

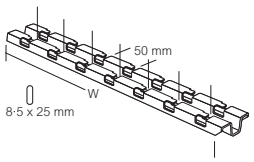
Pack	Cat. Nos.	Pendant depth (D) (mm)
	GS	
1	CM556630	300
1	CM556600	400
1	CM556610	500
	GC	
1	CM556633	300
1	CM556603	400
1	CM556613	500



Brackets (continued)

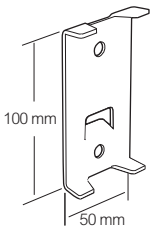
Profile trapeze hangers
Can also be used for wall and floor mounting

Pack	Cat. Nos.	For tray width (mm)	Actual width (W) (mm)
	GS		
1	CM013150	50	150
1	CM013200	100	200
1	CM013300	150 and 200	300
1	CM013400	300	400
1	CM013500	400	500
1	CM013600	450 and 500	600
1	CM013010	Cut to length	1 000
1	CM013030	Cut to length	3 000
	GC		
1	CM013153	50	150
1	CM013203	100	200
1	CM013303	150 and 200	300
1	CM013403	300	400
1	CM013503	400	500
1	CM013603	450 and 500	600
1	CM013013	Cut to length	1 000
1	CM013033	Cut to length	3 000
	SS		
1	CM013154	50	150
1	CM013204	100	200
1	CM013304	150 and 200	300
1	CM013404	300	400
1	CM013504	400	500
1	CM013604	450 and 500	600
1	CM013014	Cut to length	1 000
1	CM013034	Cut to length	3 000



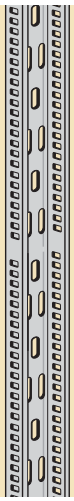
Profile strut back plates

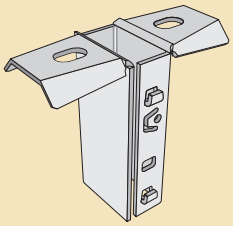
Pack	Cat. Nos.
	GS
1	CM557800
	GC
1	CM557803
	SS
1	CM557804

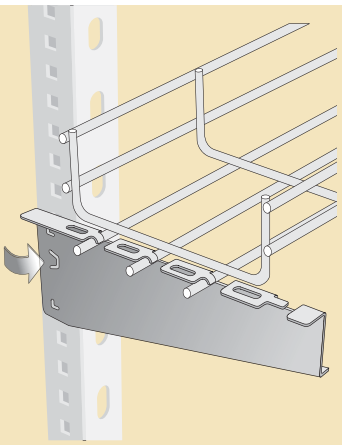


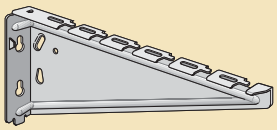
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

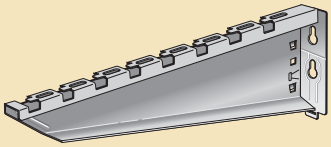
Swifts® steel wire cable tray
standard brackets


CM561020


CM561080


CM557940


CM557440

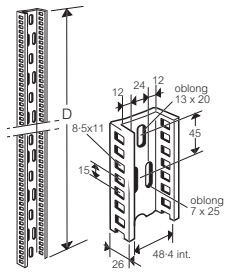

CM557450

Dimensions and technical information (p. 286)

Brackets for pendant installations

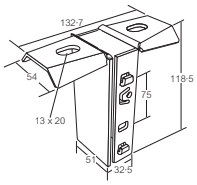
Pendants

Pack	Cat. Nos.	Depth (D)
	GS	
1	CM561310	300 mm
1	CM557610	600 mm
1	CM561090	1 000 mm
1	CM561010	2 000 mm
1	CM561020	3 000 mm
	GC	
1	CM561313	300 mm
1	CM557613	600 mm
1	CM561093	1 000 mm
1	CM561013	2 000 mm
1	CM561023	3 000 mm



Pendant mounting plate

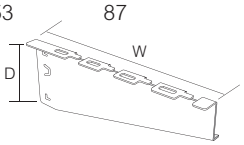
Pack	Cat. Nos.
	GS
1	CM561080



Cantilever arms for pendant mounting

Suitable for pendant mounting only

Pack	Cat. Nos.	For tray width (mm)	Actual width (W) (mm)	Depth (D) (mm)
	GS			
1	CM557920	100	153	73
1	CM557930	150	203	73
1	CM557940	200	253	87
1	CM557950	300	353	87

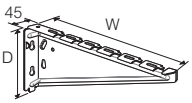


Brackets

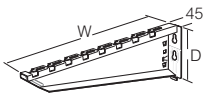
Cantilever arms

Suitable for wall mounting or pendant mounting using pins below (on tray widths up to 300 mm)

Pack	Cat. Nos.	For tray width (mm)	Actual width (W) (mm)	Depth (D) (mm)
	GS			
1	CM557400	50	107	85
1	CM557410	100	157	85
1	CM557420	150	207	124
1	CM557430	200	257	139
1	CM557440	300	357	139
1	CM557450	400	457	138
1	CM557460	500	557	138
1	CM557470	600	657	138
	GC			
1	CM557403	50	107	85
1	CM557413	100	157	85
1	CM557423	150	207	124
1	CM557433	200	257	139
1	CM557443	300	357	139
1	CM557453	400	457	138
1	CM557463	500	557	138
1	CM557473	600	657	138
	SS			
1	CM557404	50	107	85
1	CM557414	100	157	85
1	CM557424	150	207	124
1	CM557434	200	257	139
1	CM557444	300	357	139
1	CM557454	400	457	138
1	CM557464	500	557	138
1	CM557474	600	657	138



up to 300 mm



400 mm and above

Pins

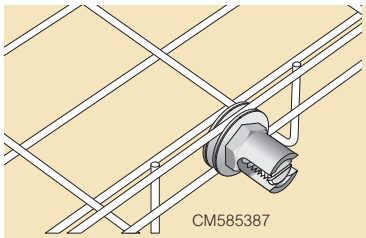
Use to mount standard cantilever arms to pendants
Supplied in packs of 50
For tray widths up to 300 mm only

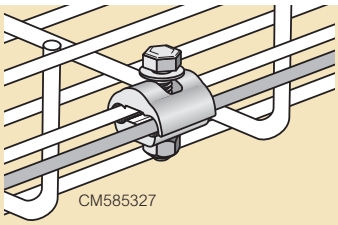
Pack	Cat. Nos.	
	EZ	
1	CM801051	8 x 75 mm
	GC	
1	CM801057	8 x 75 mm
	SS	
1	CM801054	8 x 75 mm

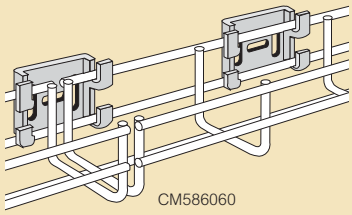
FINISHES :
EZ Electroplated zinc
GC Hot dip galvanised after manufacture to BS EN ISO 1461 (formerly BS729)
GS Pre- galvanised steel to BS EN 10327 : Grade DX51D
SS Stainless steel to BS EN 10088 : Number 1·4401 (equivalent to 316L)
DC Dacromet

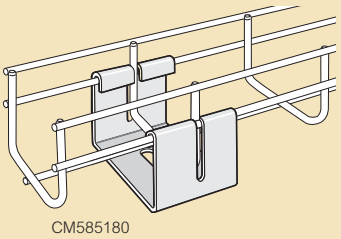
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

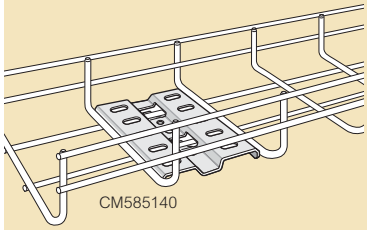
Swifts® SW steel wire cable tray
ancillary items

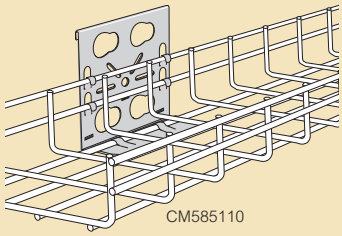

CM585387


CM585327

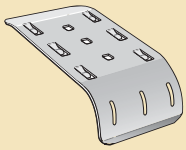

CM586060


CM585180


CM585140


CM585110




CM585160

Dimensions and technical information (p. 287)

Pack	Cat. Nos.	Ancillary items
		Earth conductor clamps - copper
		Length (L) (mm) | Csa of cable (mm²)
1	CM585387	22 | 16
1	CM585397	24 | 35
1	CM585407	26 | 50
	GS	**Earth terminal supports**
1	CM585090	
	GC	
1	CM585093	
	SS	
1	CM585094	
		Earth cable clamp – aluminium
1	CM585327	
		Earth cable support
1	CM585080	Supplied in a pack of 100
		Multifix base plates
		For suspension via threaded rod
		Also for mounting luminaires
		Width (W) (mm)
	GS	
1	CM585140	100
1	CM585150	150
	GC	
1	CM585143	100
1	CM585153	150
	SS	
1	CM585144	100
1	CM585154	150
	PVC	
1	CM585145	100
		Universal conduit take-off plates
	GS	
1	CM585410	
	DC	
1	CM585417	
		Conduit take-off plates – side
	GS	
1	CM585110	
	SS	
1	CM585114	
		Switch box take-off plates
		To be used with conduit take-off plates – side
	GS	
1	CM585130	
	SS	
1	CM585134	

Pack	Cat. Nos.	Ancillary items (continued)
		Terminal box fixing plate
	GS	
1	CM585120	For side mounting
		Universal mounting plates – large
		Used to fit 50 to 100 mm width SW tray to the wall. Can also be used to mount small accessories on the side or base of SW tray
	GS	Not suitable for 28 mm depth tray
1	CM586130	
	GC	
1	CM586133	
	SS	
1	CM586134	
		Universal mounting plates – small
		Used to fit 50 mm width SW tray to the wall
		Can also be used to mount small accessories to any width SW tray
		Not suitable for 28 mm depth tray
	GS	
1	CM586060	
	GC	
1	CM586063	
	SS	
1	CM586064	
		Lighting brackets
		For suspending lighting under SW tray
	GS	For 50 mm tray widths
1	CM585180	Actual width 69 mm
		For 100 mm tray widths and above
1	CM585190	Actual width 58 mm
	GS	**Cable dropout plates**
1	CM585160	
	DC	
1	CM585167	
	SS	
1	CM585164	
		ID clips
	GS	Supplied in a pack of 50
1	CM559137	Neutral
1	CM559147	Orange
1	CM559157	Yellow
1	CM559167	Green
1	CM559177	Blue
1	CM559197	Grey
		Croppers
1	CM559507	630 mm length (Only for EZ, GC)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
protection against corrosion and loading graphs

■ Protection against corrosion

Cable trays are mainly exposed to atmospheric corrosion

The environment in which the cable trays are installed is therefore the main criterion in the choice of surface treatment or type of steel

EZ – Electroplated zinc

Standard EN 12 329

The cable tray, manufactured using untreated steel wire, is pickled and then immersed in an electrolyte containing zinc. Zinc is then deposited on it by passing an electric current

A smooth bluish-grey, fairly glossy appearance is obtained depending on the pH value of the electrolytic bath used. The colour and gloss have no negative or positive effect on the corrosion resistance of the coating

GC – Hot dip galvanised after manufacture

Standard BS EN ISO 1461 (formerly BS729)

The cable trays or accessories manufactured from untreated steel sheet or wire are degreased and pickled before being immersed in a bath of molten zinc. The whole part is therefore covered with a thick layer of zinc

A light grey, slightly rough appearance is obtained

NOTE : Any white marks due to the formation of zinc hydroxycarbonate which might appear on the surface have no influence on the corrosion resistance. This is in fact the principle on which galvanic protection is based

GS – Pre-galvanised steel

Standard BS EN 10327 : Grade DX51D

Before manufacture, a coating of zinc is deposited by continuous immersion on the steel sheets or wires. The appearance of the components is now smooth and grey

SS – Stainless steel

Standard BS EN 10088 : Number 1·4401 (equivalent to 316L)

Since it contains molybdenum, stainless steel 316L offers almost perfect corrosion resistance in all types of industry, especially in highly aggressive halogen-containing environments (fluorine and chlorine)

DC – Dacromet® (1)

A coating based on zinc and aluminium is obtained, giving the parts a smooth, light grey appearance with no grain

Dacromet® offers protection equivalent to that of GC and is only used for small accessories and fixings, which are difficult to hot dip galvanise

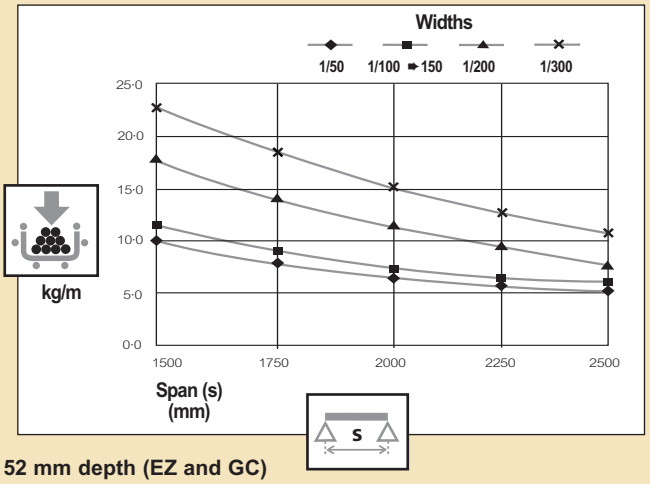
	EZ	GC	GS	SS	DC
Interior installation, normal environment	❍	–	❍	–	–
Exterior installation, urban environment	◆	❍	◆	–	❍
Chemical industries, nitrate explosives, photography, decoration	–	◆	–	❍	◆
Marine, aggressive, sulphurous (weak concentration) environments	–	◆	–	❍	◆
Acid or alkaline environments	–	◆	–	❍	◆
Food production	–	–	–	❍	–
Halogen environments	–	–	–	❍	–

❍ recommended
◆ possible

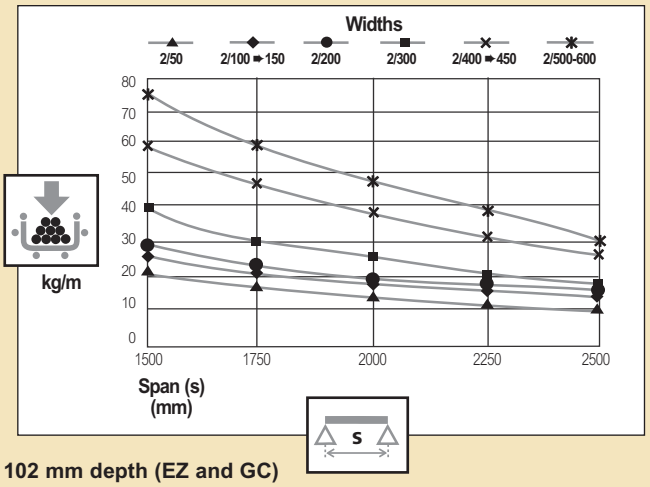
(1) Dacromet is a registered trademark of Metal Coatings International Inc.

■ Loading graphs

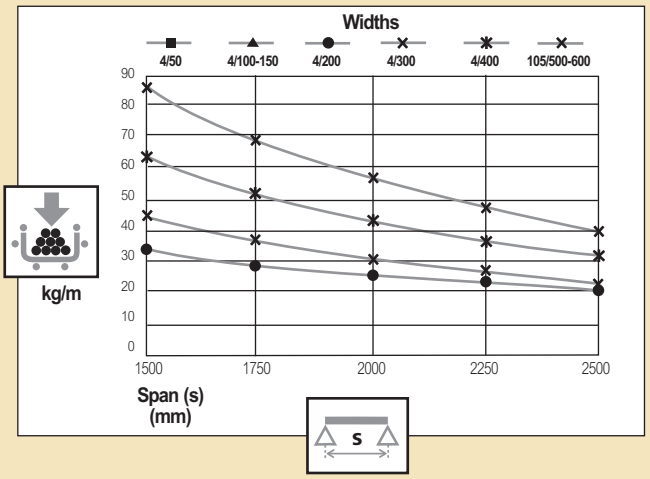
28 mm depth (EZ and GC)

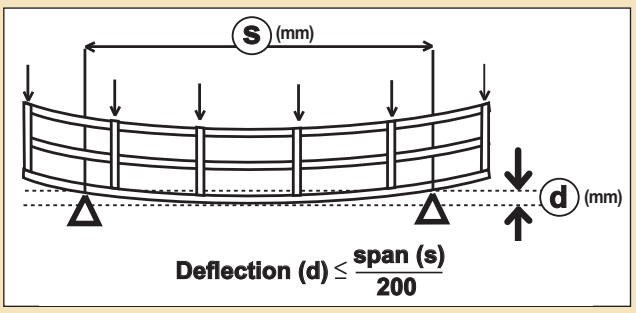


52 mm depth (EZ and GC)



102 mm depth (EZ and GC)





NOTE : For loading information on stainless steel SW tray, contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
loading information

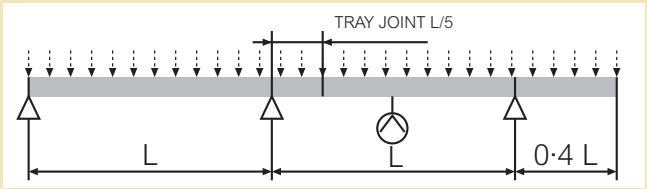
■ Wire carrying capacity

Maximum load capacity of SW cable trays for a cable density of 0·25 kg / cm² / m

Tray width (mm)	Maximum capacity (kg / m)		
	28 mm depth	52 mm depth	102 mm depth
50	4	7	–
100	7	13	26
150	11	20	–
200	14	26	51
300	21	39	77
400	–	52	102
500	–	65	–
600	–	78	–

■ Test method

The cable tray is tested over two continuous overhanging spans. It is fixed on brackets. The deflection is measured in the middle of the span using 2 sensors placed on the sides of the cable trays. The result is the average value of these 2 measurements. The coefficient to be applied to the permissible load if tray joint is L/2= 0·7

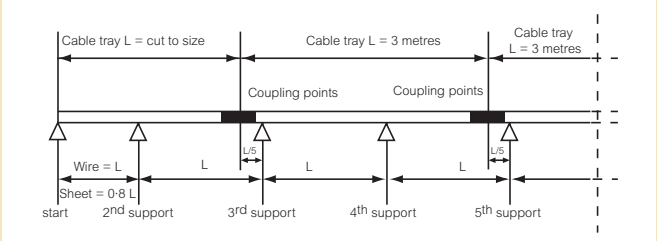


: measurements taken in the middle of the span. Any type of tray joint
Maximum deflection : 1/200L

NB : The maximum deflection of 1/300th or 1/200th is always obtained if the load is less than the safe working load (failure load divided by a normalised safety coefficient of 1·7). For the supports, the safe working load is the lowest value of either the breaking load divided by 1·7 or the deformation equal to the length of the bracket or hanger divided by 20

■ Recommendations for installing supports

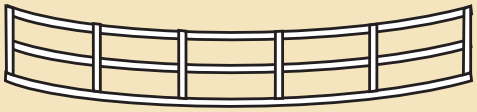
In terms of spacing the supports, the cable trays should be placed in accordance with the tray joint position indicated on the diagram below



As the maximum bending stress is situated at the point of coupling, never put the support under the point of coupling. Place the tray joint 1/5 along the support L

■ Safety

In the event of critical overload, a mesh structure becomes deformed like a hammock, but is unlikely to collapse



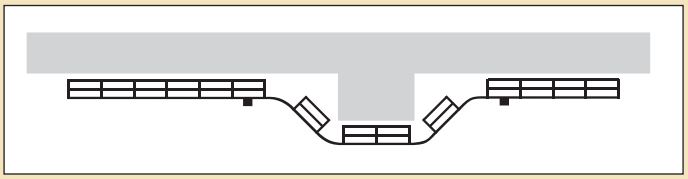
Swifts SW tray cannot be used as a walkway. It is designed primarily as a cable management system

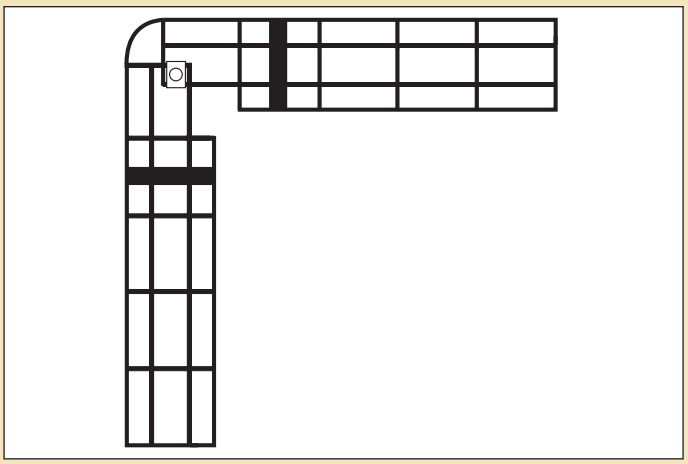
Note : Cut sections have relatively sharp edges and protective gloves must be worn during handling

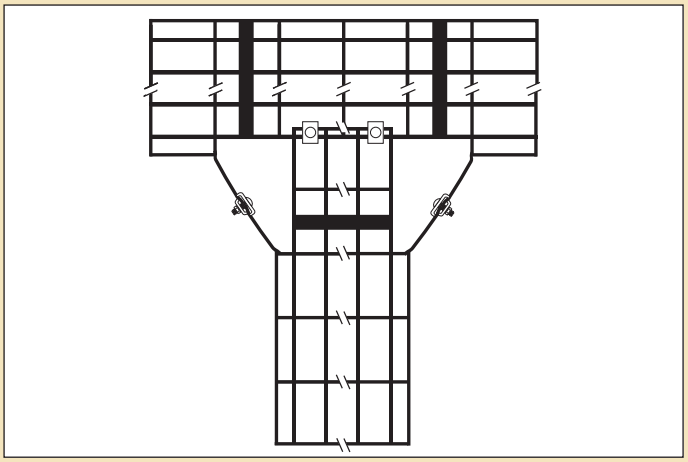
■ Choice and position of supports

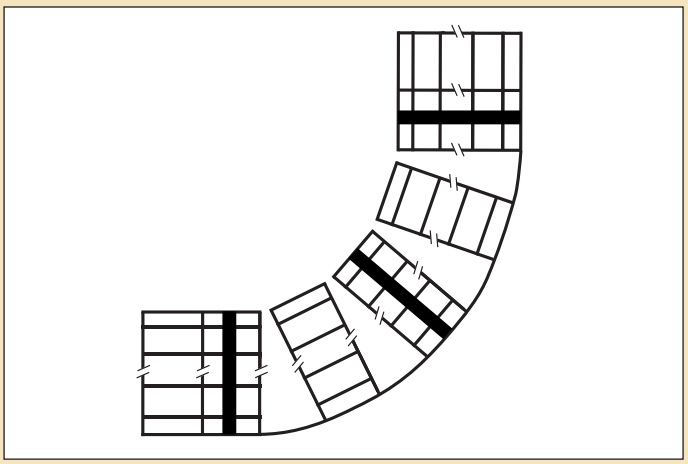
Change of level and / or direction : the support must be placed with 1/5th span of the tray fittings. It is recommended to place supports at the start and end of 90° bends. For bends of large radius, an extra support should be allocated in the middle of the bend

■ Support position examples









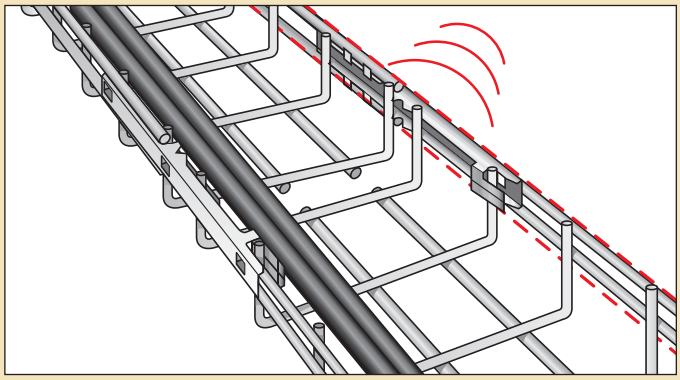
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Electromagnetic compatibility (EMC)

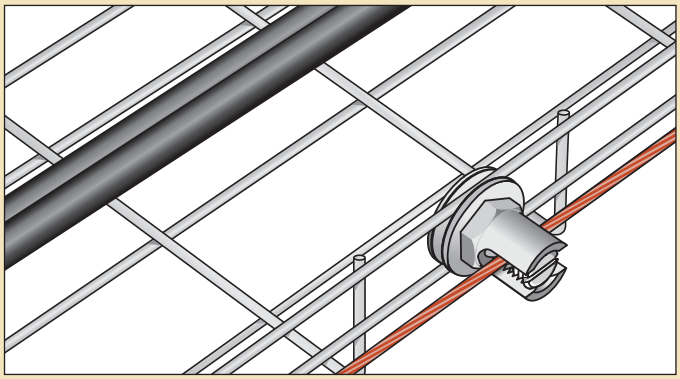
Electromagnetic disturbance is emitted by a “source” (such as telephones, lighting and power cables) polluting a “victim” (such as computer hardware and data cables)

The transmission of electromagnetic disturbances is known as coupling. An EMC problem only occurs when the three influencing factors (source, coupling and victim) are evident. To obtain good EMC, it is necessary to eliminate one of the three elements or reduce its effect

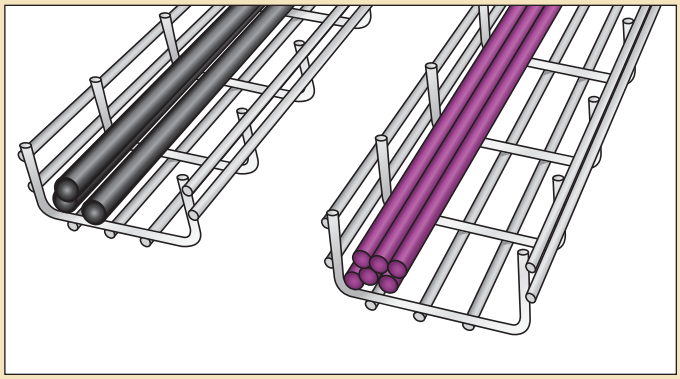
■ Critical factors to reduce electromagnetic disturbance



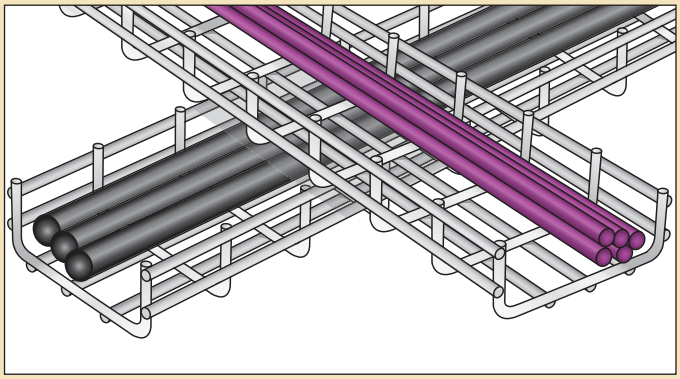
Maintain electrical continuity with a suitable steel wire cable tray and low resistance couplers



Maintain connection to the earth network every 15 to 20 m



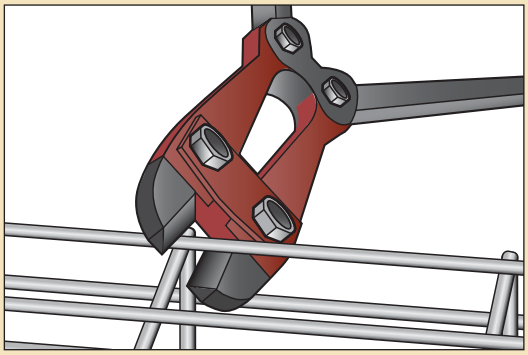
Maintain a 20 to 30 cm separation between power and data cables (depending on required standard)



Maintain a 90° angle when crossing power and data cables

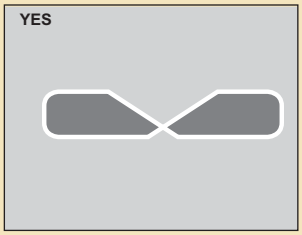
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ How to cut tray

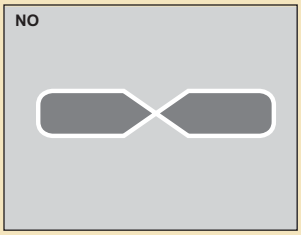


To ensure a quality installation
Bolt cutters with “offset” jaws should be used to allow an angled cut (see p. 276)

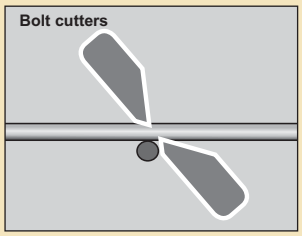
The jaws should be positioned as close as possible to the intersection of the steel wires



Offset cut



Standard central cut jaws

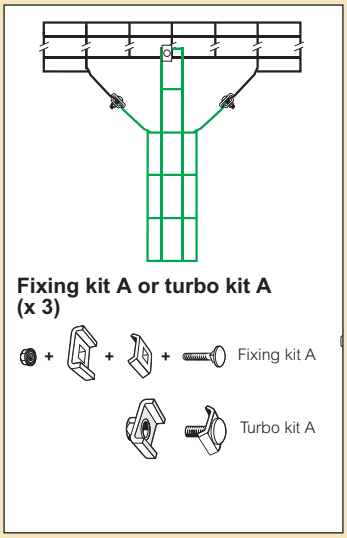


Position of the jaws

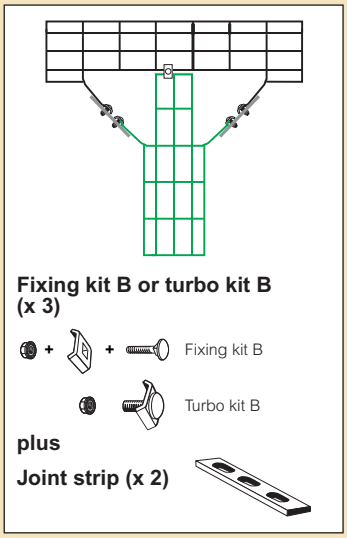
The use of bolt cutters ensures the maintenance of a protective layer over the cut and also helps create a galvanic couple to protect it

■ “T” or cross with gusset

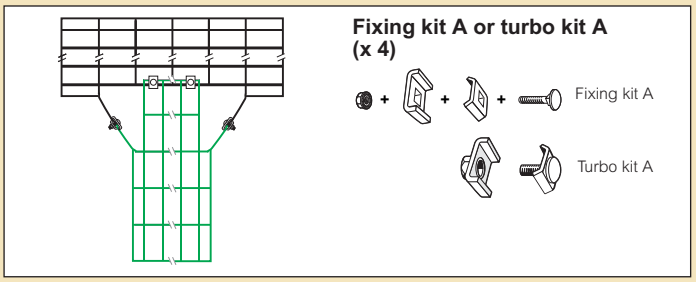
100 and 200 mm tray widths



150 mm tray widths

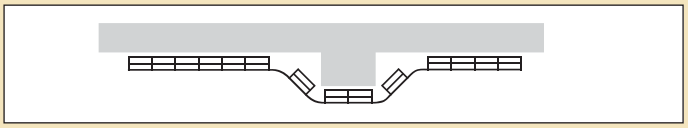


300 to 600 mm tray widths

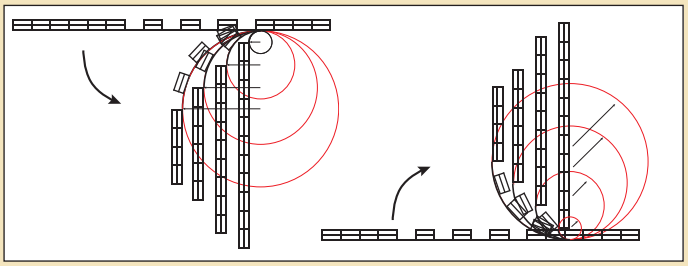


NOTE : to create the fittings shown on these pages, please refer to p. 272 for appropriate fixing kits

■ Change of level



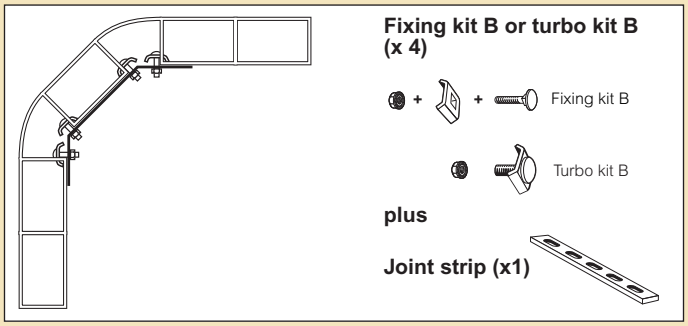
■ Creating risers



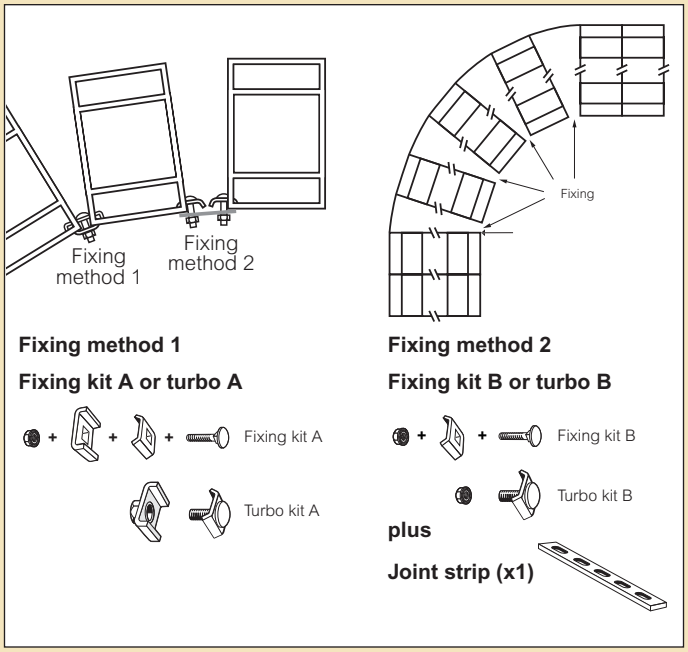
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Creating flat bends – large radius

50 mm tray widths

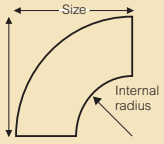


100 to 600 mm tray widths



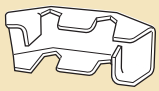
Number of fixings, radius and sizes

Tray widths (mm)	Number of zones to cut (one link out of two)	Fixing methods 1	Fixing methods 2	Internal radius (mm)	Size (mm)
100	3	–	3	220	520
150	4	–	4	280	650
200	4	2	2	280	650
300	6	4	2	431	900
400	8	6	2	460	1060
500	9	9	–	700	1305
600	11	11	–	770	1535



■ Faslock

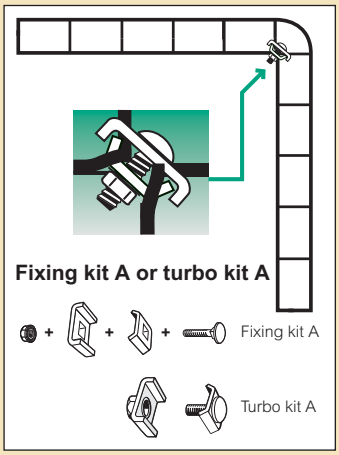
The quickest and easiest way to form large radius bends



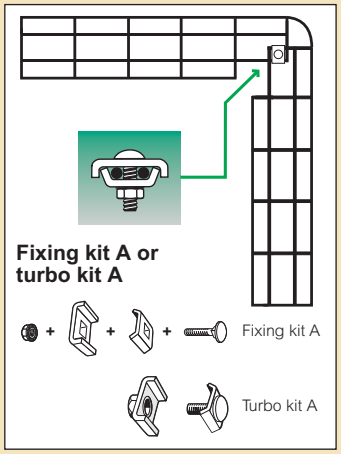
	Tray widths (mm)	Number of zones to cut (one link out of two)	Fixings FASLOCK	Internal radius (mm)	Size (mm)
Faslock S	**100**	2	2	142	303
Faslock S	**150**	3	3	220	433
Faslock S	**200**	4	4	299	557
Faslock XL	**300**	6	6	454	918
Faslock XL	**400**	8	8	612	1177
Faslock XL	**500**	10	10	756	1422
Faslock XL	**600**	12	12	909	1675

■ Creating flat bends – small radius

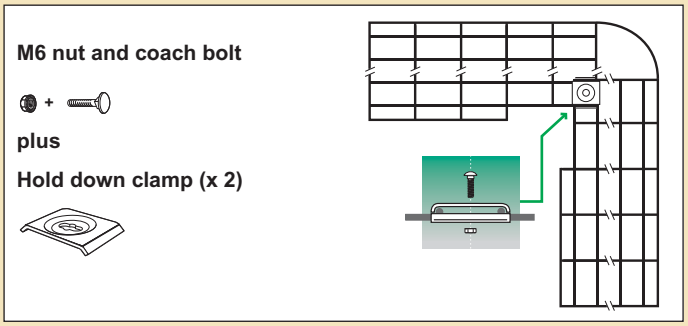
50 mm tray widths



100 mm tray widths

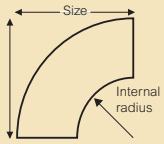


100 to 600 mm tray widths

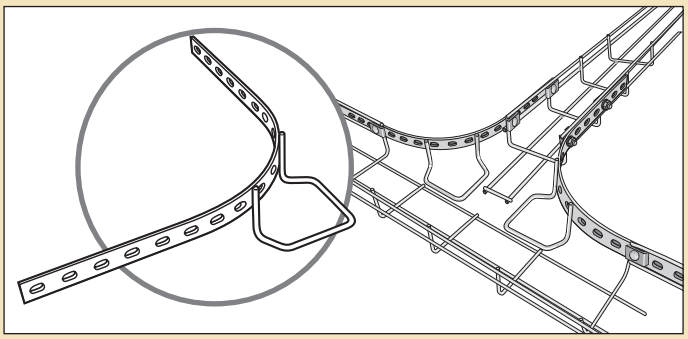


Internal radius and size of the small radius bends

Tray widths (mm)	Number of sections to cut	Internal radius (mm)	Size (mm)
100	1	145	375
150	1	120	430
200	2	120	430
300	2	120	530
400	2	120	630
500	2	135	750
600	2	160	770



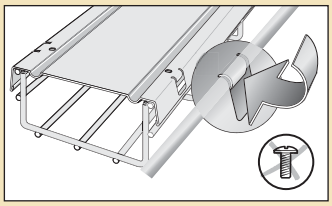
■ Corner assembly



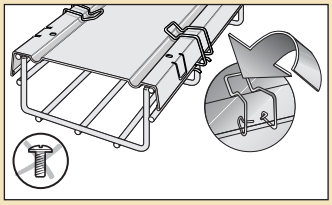
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
installation guide (continued)

■ Covers



Covers have integral tabs for securing cover to tray



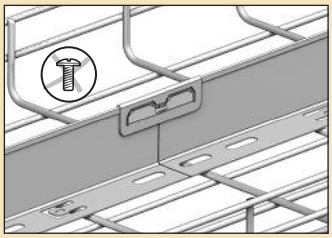
Optional clips can also be used in extreme conditions where additional fixing is required

When using clips, fit 4 per 1 m length

■ Dividers

Secure dividers to tray cross wires approximately every 1 m

Connect dividers using universal connectors for all depths

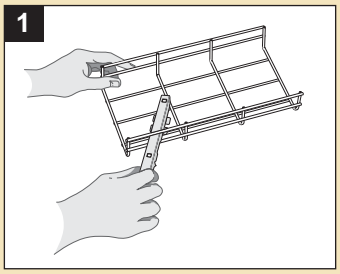


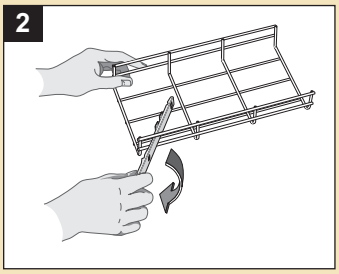
■ Preclic couplers

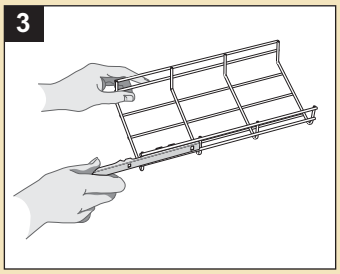
For use with 52 and 102 mm depth SW tray

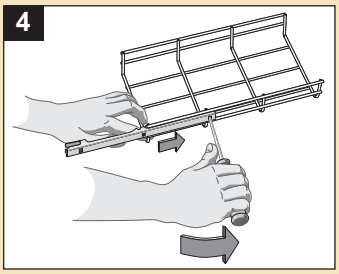
Preclic couplers are the quickest way to join straight lengths. They offer added rigidity and provide good earth continuity (see chart p. 270 for quantity per width)

Fitting preclic couplers to SW tray



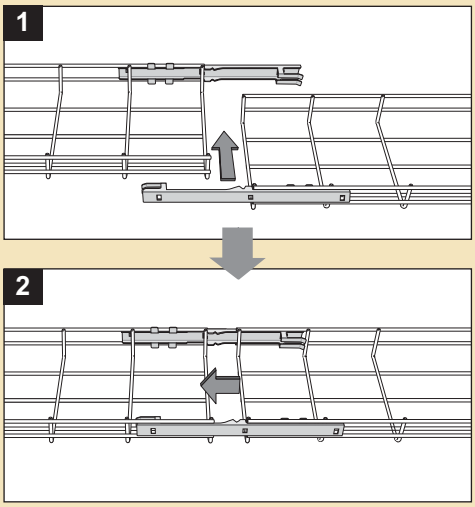




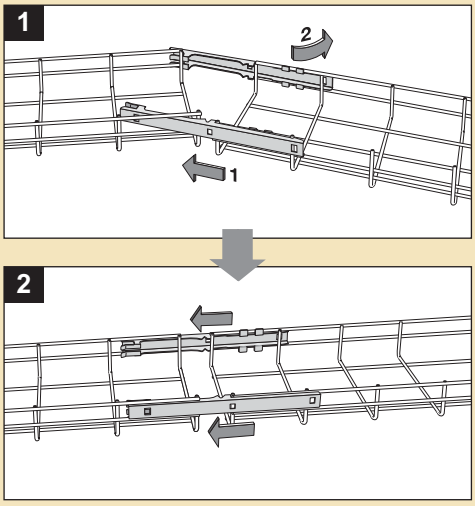


Joining lengths with preclic couplers

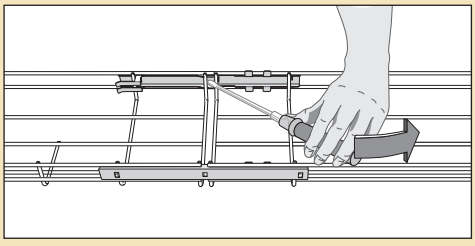
Method 1



Method 2



Removing preclic couplers

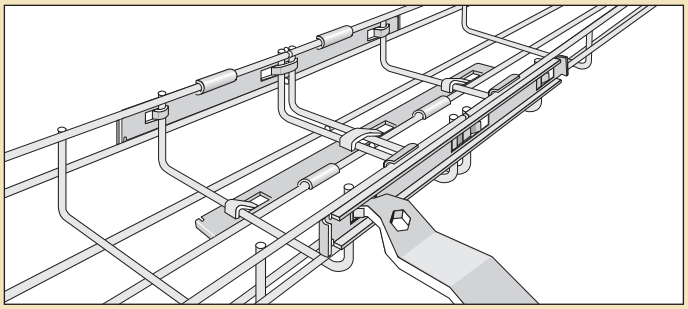


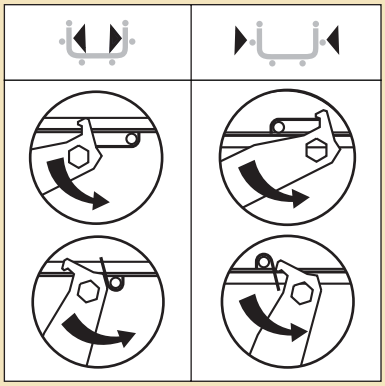
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ EZR couplers

For use with all SW tray depths

Used as base couplers on widths 200 mm and above
(see chart p. 270 for quantity per width)

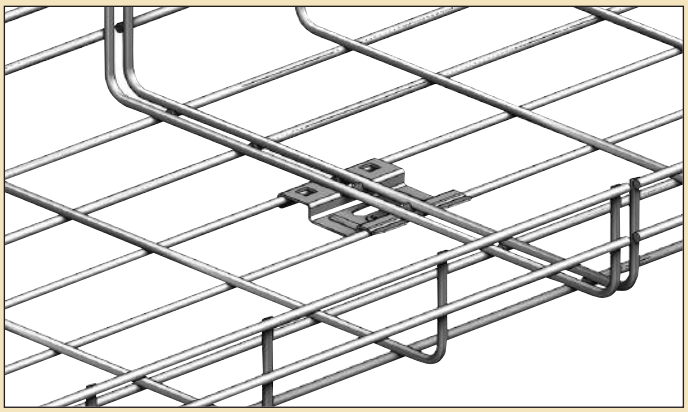




EZR fixing tool can be used to bend
tabs from inside or outside SW tray

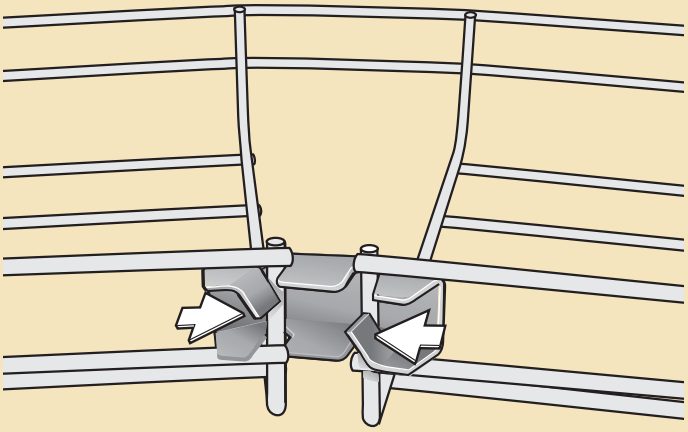
■ Base coupler (luminaire support)

An enhanced alternative to couplers and fixing strips when base coupling is required (see chart p. 270 for quantity per width)



■ Faslock

Used as an alternative to fixing kits to quickly secure radius bends
(see p. 283 for quantity per bend)

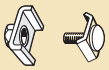


Bend tabs with pliers to secure

■ Fixing kits



Fixing Kit A
For general clamping of straight lengths and fittings



Fixing Kit Turbo A
Alternative to above with captive nut and bolt for quicker installation and stronger clamping



Fixing Kit B
For general clamping where only one clamp plate is required (eg fixing plates)



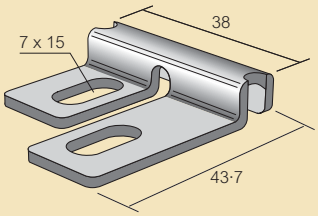
Fixing Kit Turbo B
Alternative to above with captive bolt for quicker installation

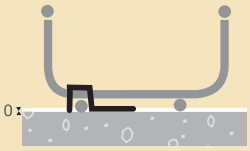
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
floor mounting options

■ Universal base fixing plates

Used to flush fit SW tray to flat surfaces

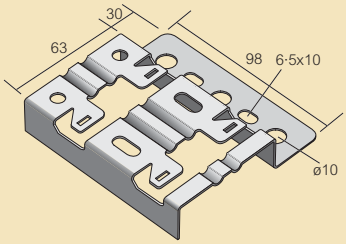


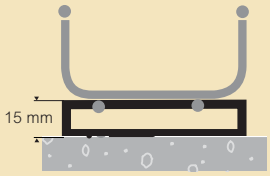


50 to 150 mm widths (x 1)
200 to 300 mm widths (x 2)
400 to 600 mm widths (x 3)

■ Stand-off brackets

Provide 15 mm clearance on flat or uneven surfaces. Max. load 50 kg

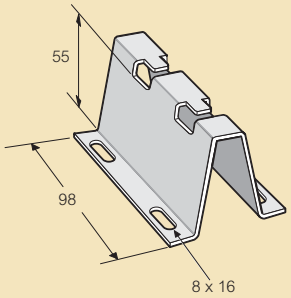


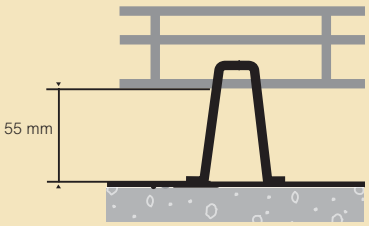


100 to 150 mm widths (x 1)
200 to 300 mm widths (x 2)
400 to 600 mm widths (x 3)

■ Floor mount brackets

Provide 55 mm clearance on flat or uneven surfaces. Max. load 150 kg





100 to 150 mm widths (x 1)
200 to 300 mm widths (x 2)
400 to 600 mm widths (x 3)

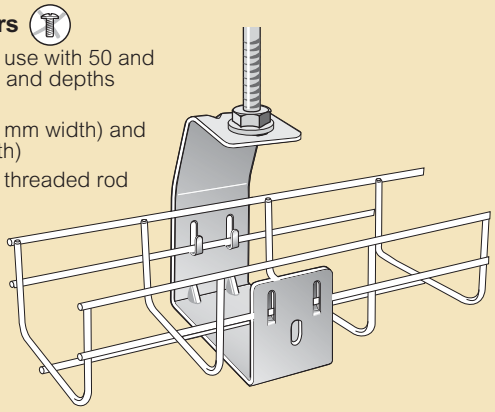
Swifts® SW steel wire cable tray
suspension options

■ Central hangers

Central hangers for use with 50 and 100 mm tray widths and depths 28 and 52 mm

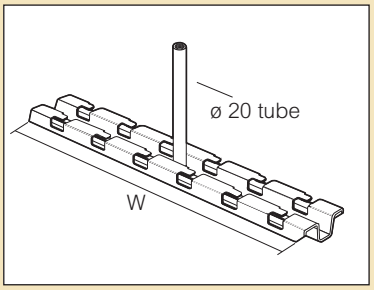
Max load 30 kg (50 mm width) and 26 kg (100 mm width)

Use with 6 or 8 mm threaded rod



Central hangers for use with 200 to 600 mm tray widths and depths 28 and 52 mm

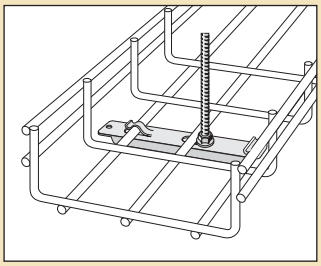
Use with 8, 10 or 12 mm threaded rod

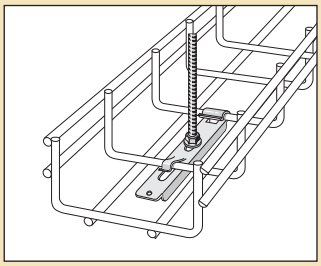


Tray width (mm)	Actual width (W) (mm)	Max load (kg) ⇩ ‖ ⇩	Max load (kg) ‖ ⇩
200	194	200	37
300	244	160	29
400	394	141	23
400	444	130	20
500	494	121	20
600	594	99	19

■ Suspension plates

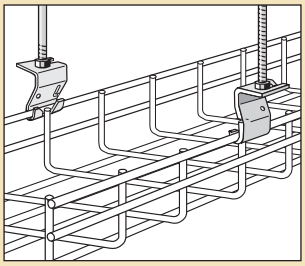
100 and 200 mm tray widths

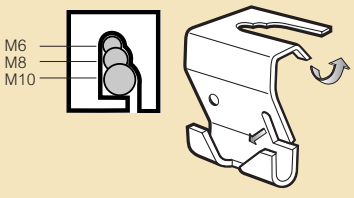




For use with 100 and 200 mm tray widths and depths 28 and 52 mm
Use with 6 or 8 mm threaded rod. Max. load 60 kg

■ Suspension hooks





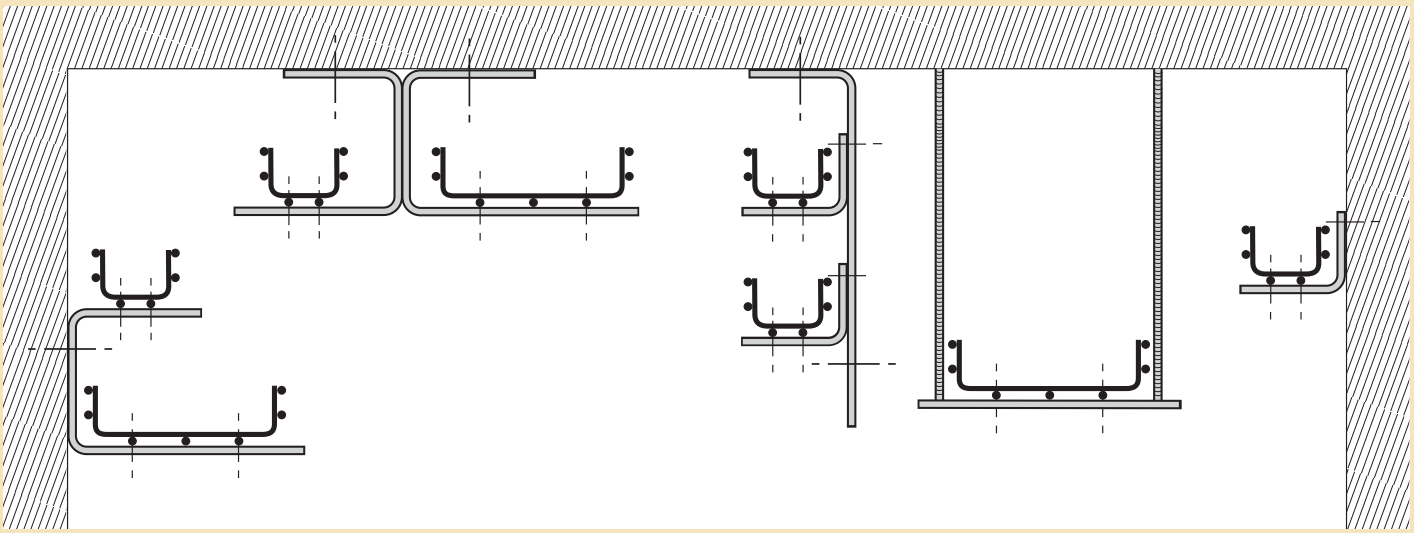
Tabs secure threaded rod and tray

For use with all tray widths and depths. Max. load 100 kg per pair

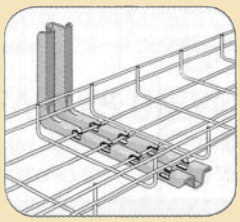
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

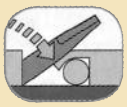
Swifts® SW steel wire cable tray
profile brackets

■ Installation example



■ Profile cantilever arms



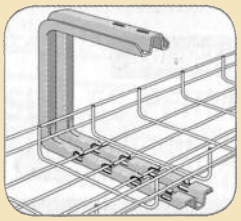


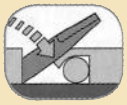


Cat. Nos.(1) GS	For tray widths (mm)	Actual width (mm)	Max load (kg)
CM556100	100	178	130
CM556110	150	228	110
CM556120	200	278	85
CM556130	300	378	73
CM556140	400	478	56
CM556150	450	528	50

(1) See p. 274 for other finishes

■ Profile roof cantilever arms



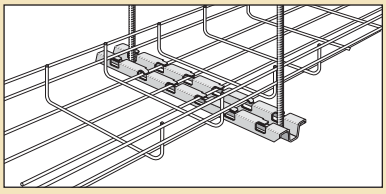


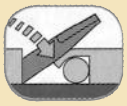


Cat. Nos.(1) GS	For tray widths (mm)	Actual width (mm)	Max load (kg)
CM556300	100	178	120
CM556310	150	228	100
CM556320	200	278	80
CM556330	300	378	70
CM556340	400	478	48
CM556350	450	528	44

(1) See p. 274 for other finishes

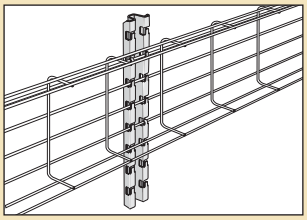
■ Profile trapeze hangers

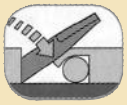


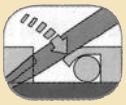




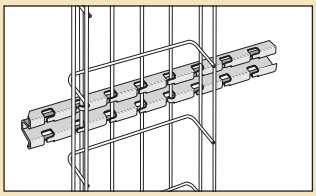
Use with 6 or 8 mm threaded rod

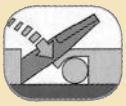


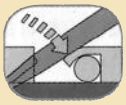




Can also be used to horizontally mount SW tray on walls (15 mm stand-off)



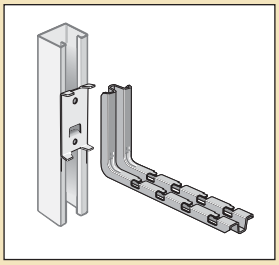


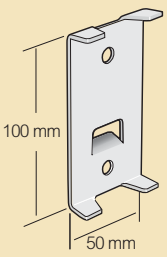


Can also be used to vertically mount SW tray on walls (15 mm stand-off)

NOTE : Can also be used to mount SW tray on floors (15 mm stand-off)

■ Profile strut back plates



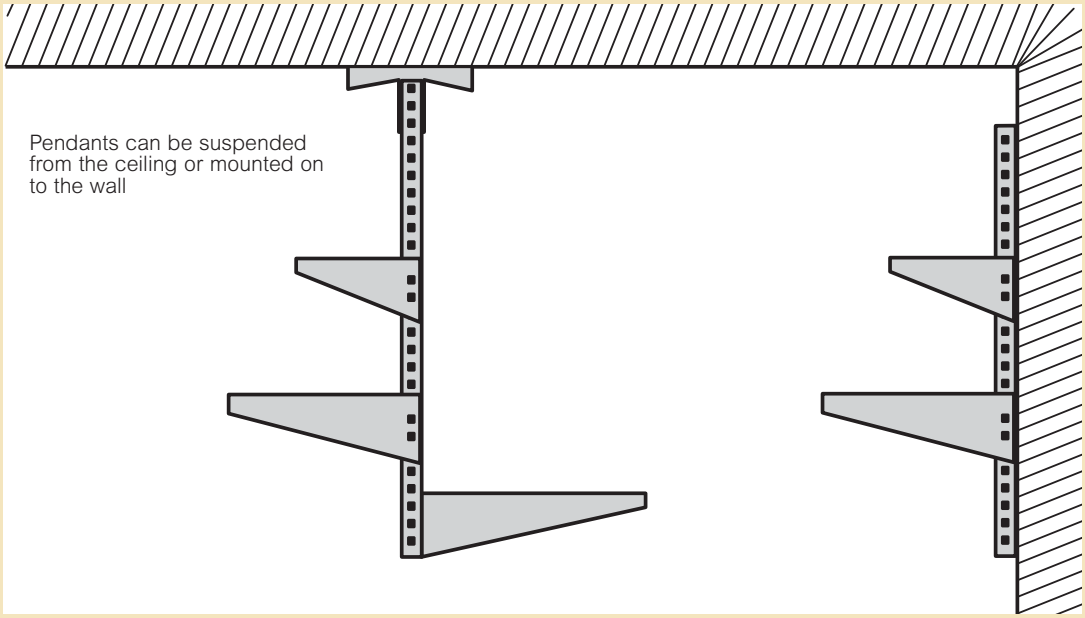


Used to fit profile supports to Swiftrack channel with M8 bolts and channel nuts

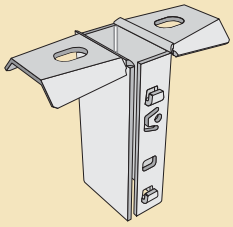
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
standard brackets

■ Pendant installation

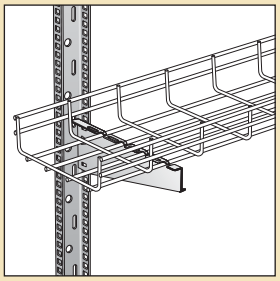


■ Pendant mounting plate



Open slot on side enables pendant to be slid on to mounting plate and secured using tabs

■ Cantilever arms for pendant mounting



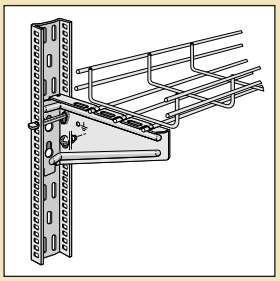
Cat. Nos.	For tray widths (mm)	SWL (kg)
CM557920	100	70
CM557930	150	55
CM557940	200	65
CM557950	300	78

Fit to pendant and secure using integrated tabs

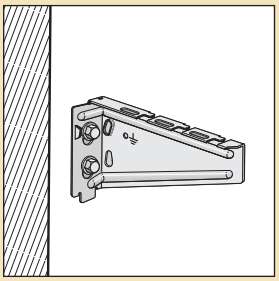
■ Cantilever arms

Can be mounted to pendants or secured directly to the wall

For tray widths 50 to 300 mm

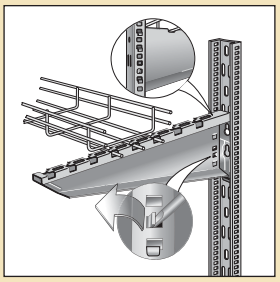


Fit to pendant using pin (see p. 275)

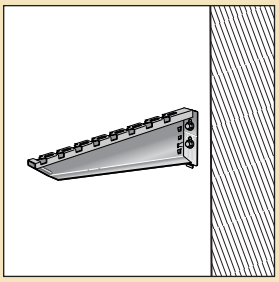


Fit directly to wall using bolts

For tray widths 400 mm and above



Fit to pendant and secure using integrated tabs



Fit directly to wall using bolts

Cat. Nos.[2] GS	For tray widths (mm)	Direct wall fixing SWL (kg)	Pendant fixing SWL (kg)
CM557400	50	–	–
CM557410	100	40	50
CM557420	150	90	120
CM557430	200	90	110
CM557440	300	105	120
CM557450	400	105	115
CM557460	500	220	160
CM557470	600	220	145

(2) See p. 275 for other finishes

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swifts® SW steel wire cable tray
Electrical continuity and ancillary items

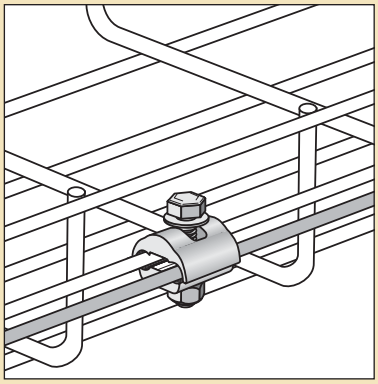
■ Electrical continuity

Under the requirements of the standard IEC 61537, couplers must have a maximum resistance of 50 mΩ

The Swifts SW system, under the IEC 61537 test, gave a resistance which is between 1/50th and 1/80th of the maximum permissible by the standard

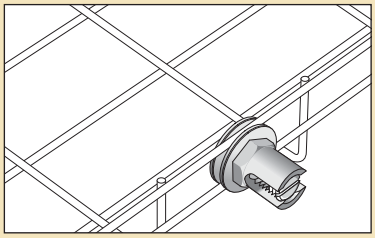
To obtain a satisfactory EMC performance and protect people and property, an integrated earth network is vital to the system

■ Earth cable clamps – aluminium



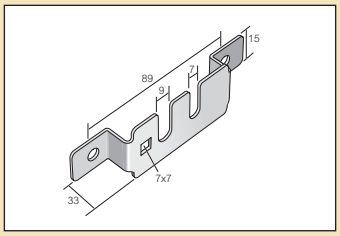
A low cost earthing solution for a protective conductor of cross section 16 to 35 mm²

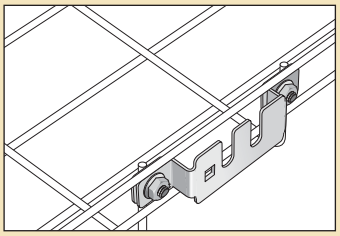
■ Earth cable clamps – copper



Safe, durable earthing for protective conductors of cross section 16 to 50 mm²

■ Earth terminal supports





Installed using fixing kit B (x 2)

Provide improved continuity for earthing when used in conjunction with earth conductor clamps (above) for the most demanding applications

■ Earth cable support

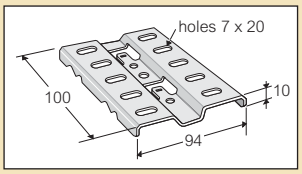


Swifts SW should be bonded to the earth of the installation every 15 to 20 m

The earth cable support keeps cables tidy between bonding positions

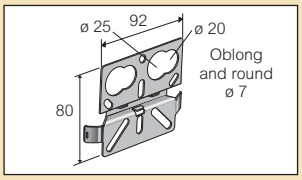
NOTE : The installer must first determine the cross section of any protective conductor used on the installation. The ancillary items above are suitable for the Swifts SW range

■ Multifix base plates



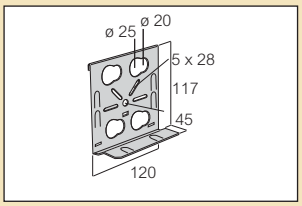
Used in two orientations to suspend an installation with threaded rod or to mount luminaries underneath the installation

■ Universal conduit take-off plates



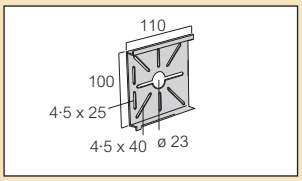
Can be mounted on side or base of Swifts SW tray

■ Conduit take-off plates – side



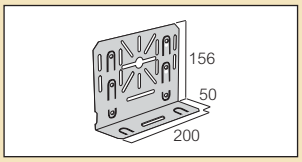
Used to provide 4 conduit outlets

■ Switch box take-off plates



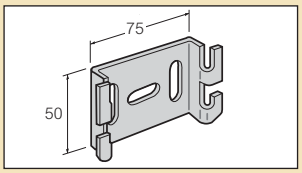
For simple clip-on fitting of junction boxes or other ancillary boxes to conduit take-off plates – side (above)

■ Terminal box fixing plate



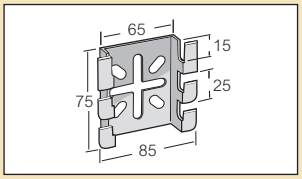
Large side-mounting plate for many applications where a strong fixing is required

■ Universal side plate – small



Used to fix 50 mm width SW tray to the wall or to support terminal boxes

■ Universal side plate – large



These can be used in two orientations to fix 50 or 100 mm width SW tray to the wall or to support terminal boxes and other fittings

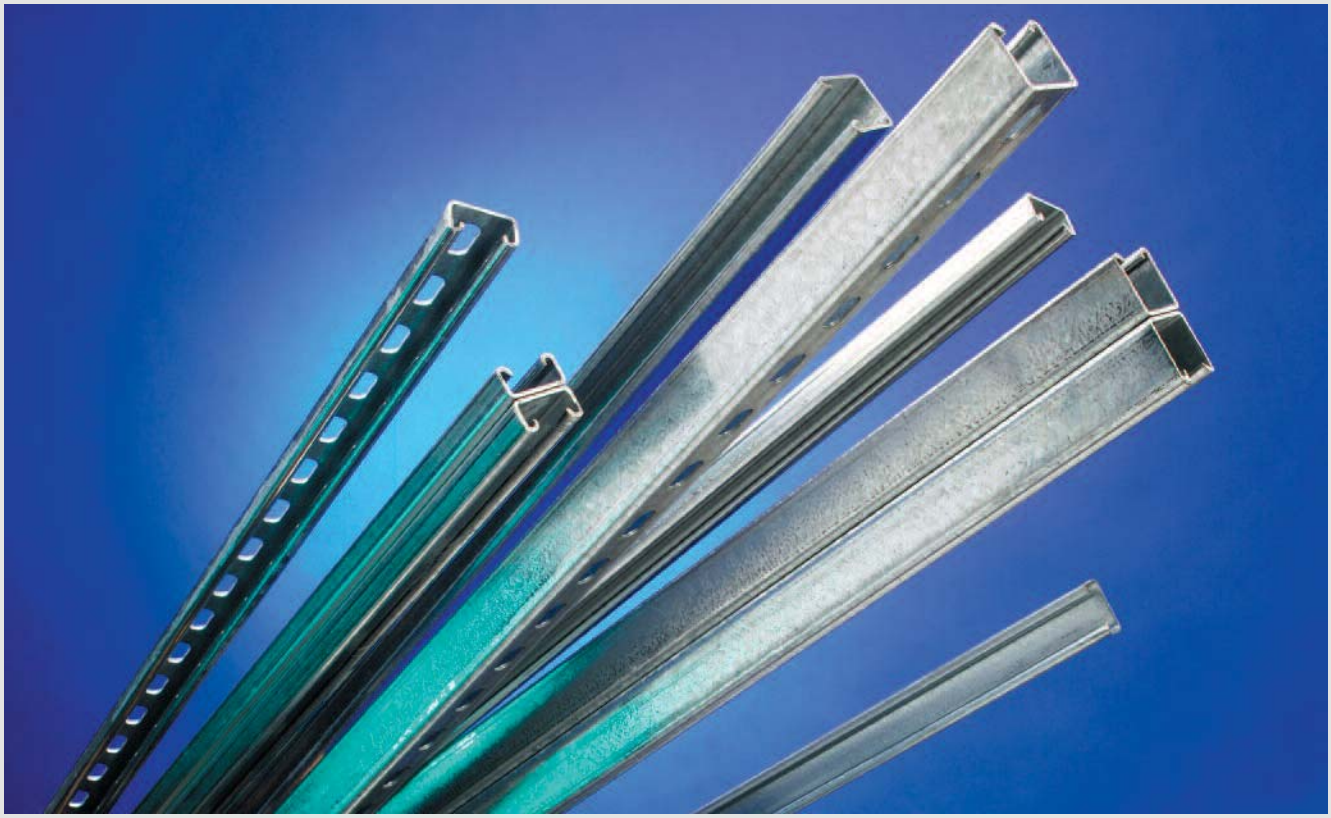
Can also be used on base of 100 mm width and above to suspend fittings

All dimensions (mm)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The backbone of all your support needs

Available in a range of finishes, including stainless steel, Legrand Swiftrack is a fully integrated, high strength support system for cable management and building services which will meet the needs of even the most demanding applications.



FITTINGS



The choice of components is vast, encompassing high strength nuts and bolts, brackets, clamps and fastenings, as well as a selection of channels... all of which combine to create a solid, rigid framework.

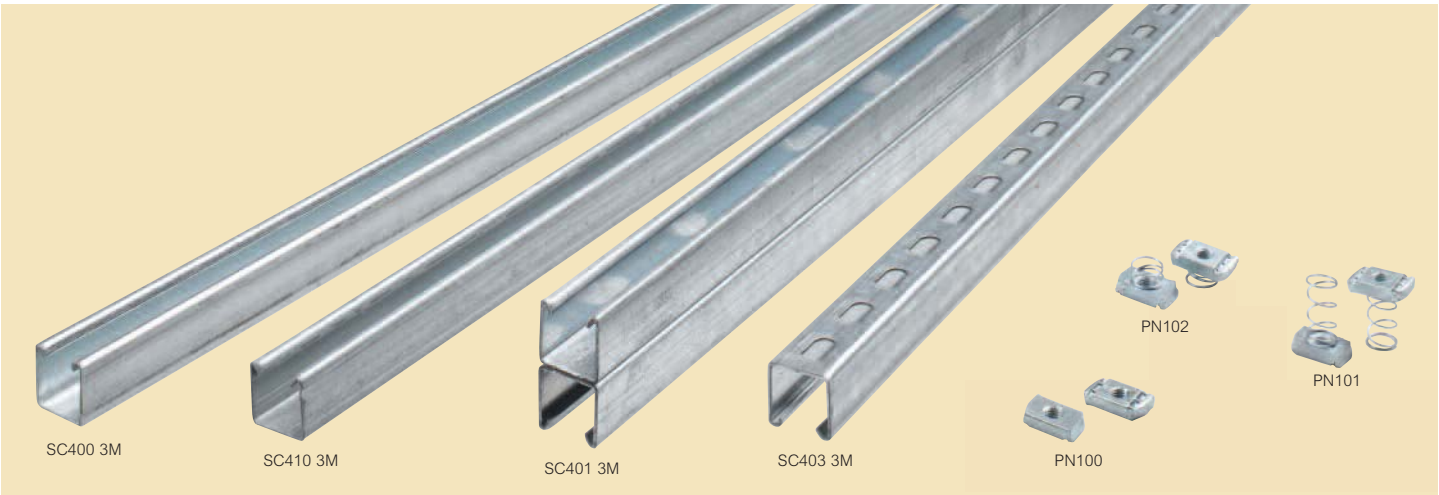
EASI-CLIP



For even faster installation, the unique "Easi-clip" allows MRF tray to be fitted firmly on to the channel support system with a simple clip-on action.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
channels and channel nuts



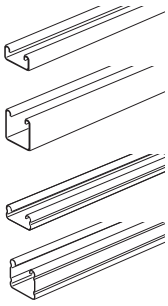
Dimensions and technical information (p. 299–302)

Channel and brackets are manufactured to BS 6946 – specifications for metal channel cable support systems for electrical installations and calculations for loading are in accordance with BS 5950 Part 5 structural use of steelwork in buildings, code of practice for cold formed thin gauge sections

Single channel

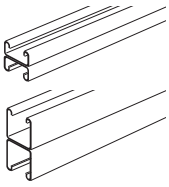
The standard finish for channel is pre-galvanised mild steel to BS EN 10326
For other finishes add the appropriate suffix
G = hot dip galvanised after manufacture to BS EN ISO 1461
S = stainless steel to BS EN 10088 2 grade 1·4401 (equivalent to 316L31)
Channels SC210 and SC410 are not available in S finish
Examples :
SC200 3M G for hot dip galvanised
SC400 3M S for stainless steel

Pack	Cat. Nos.	
		Standard channel
1	SC200 3M	21 x 41 mm, 3 m length
1	SC200 6M	21 x 41 mm, 6 m length
1	SC400 3M	41 x 41 mm, 3 m length
1	SC400 6M	41 x 41 mm, 6 m length
		Light gauge channel
1	SC210 3M	22 x 41 mm, 3 m length
1	SC410 3M	41 x 41 mm, 3 m length



Back-to-back channel

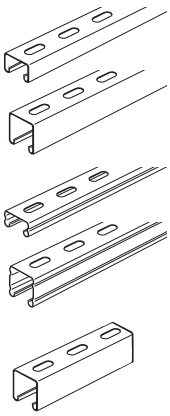
1	SC201 3M	41 x 41 mm, 3 m length
1	SC401 3M	41 x 83 mm, 3 m length
1	SC401 6M	41 x 83 mm, 6 m length



FINISHES :
EZ Electroplated zinc
G Hot dip galvanised after manufacture to BS EN ISO 1461 (formerly BS729)
PG Pre-galvanised steel to BS EN 10327 : Grade DX51D
S Stainless steel to BS EN 10088 : Number 1·4401 finish 2B (equivalent to 316S31)
DC Dacromet

Slotted channel

Pack	Cat. Nos.	
		Standard channel
1	SC203 3M	21 x 41 mm, 3 m length
1	SC203 6M	21 x 41 mm, 6 m length
1	SC403 3M	41 x 41 mm, 3 m length
1	SC403 6M	41 x 41 mm, 6 m length
		Light gauge channel
1	SC213 3M	22 x 41 mm, 3 m length
1	SC413 3M	41 x 41 mm, 3 m length
1	SC413 6M	41 x 41 mm, 6 m length
		Pre-cut lengths
18	SC403 300	300 mm length
18	SC403 350	350 mm length
18	SC403 500	500 mm length



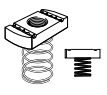
Channel nuts

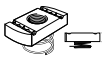
For use with all channel
M12 channel nuts should always be used for maximum load conditions

The standard finish for all nuts is zinc plated to BS3382 : Part 2
For stainless steel, add the suffix S
Example : PN101S

Fastenings :
Use hexagon head setscrews (see p. 297)
Suggested setscrew sizes (see p. 298)

		Long springs
		For use with 41 mm deep channel
100	PN061	M6
100	PN081	M8
100	PN101	M10
100	PN121	M12
		Short springs
		For use with 21 mm deep channel
100	PN062	M6
100	PN082	M8
100	PN102	M10
100	PN122	M12
		No springs
		For use on all channel depths
100	PN060	M6
100	PN080	M8
100	PN100	M10
100	PN120	M12







ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

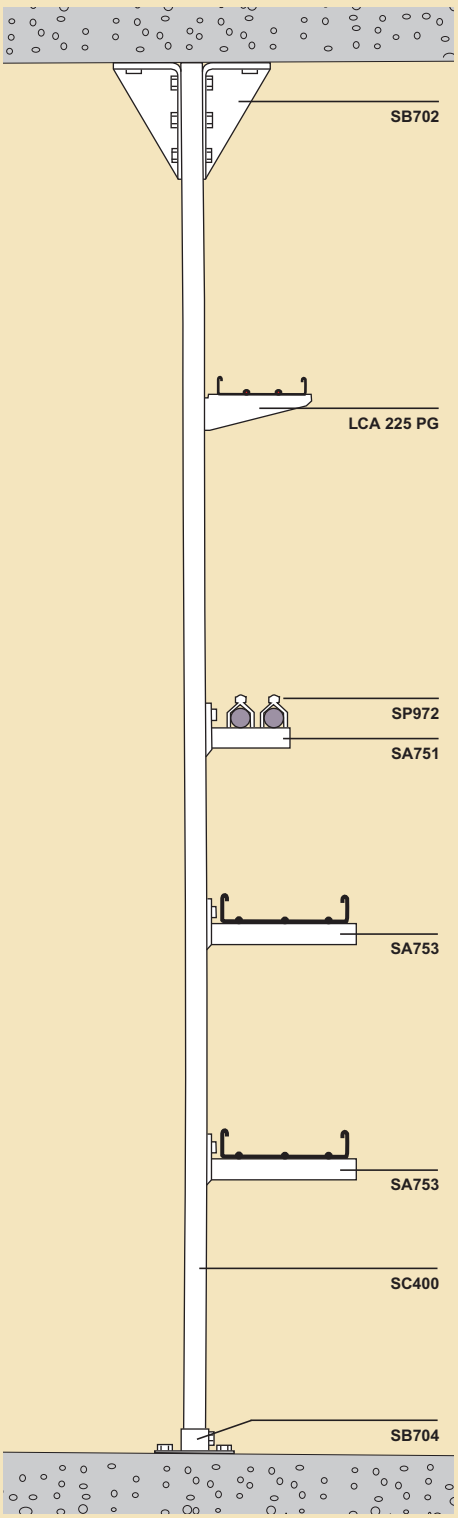
Swiftrack channel support system
typical applications

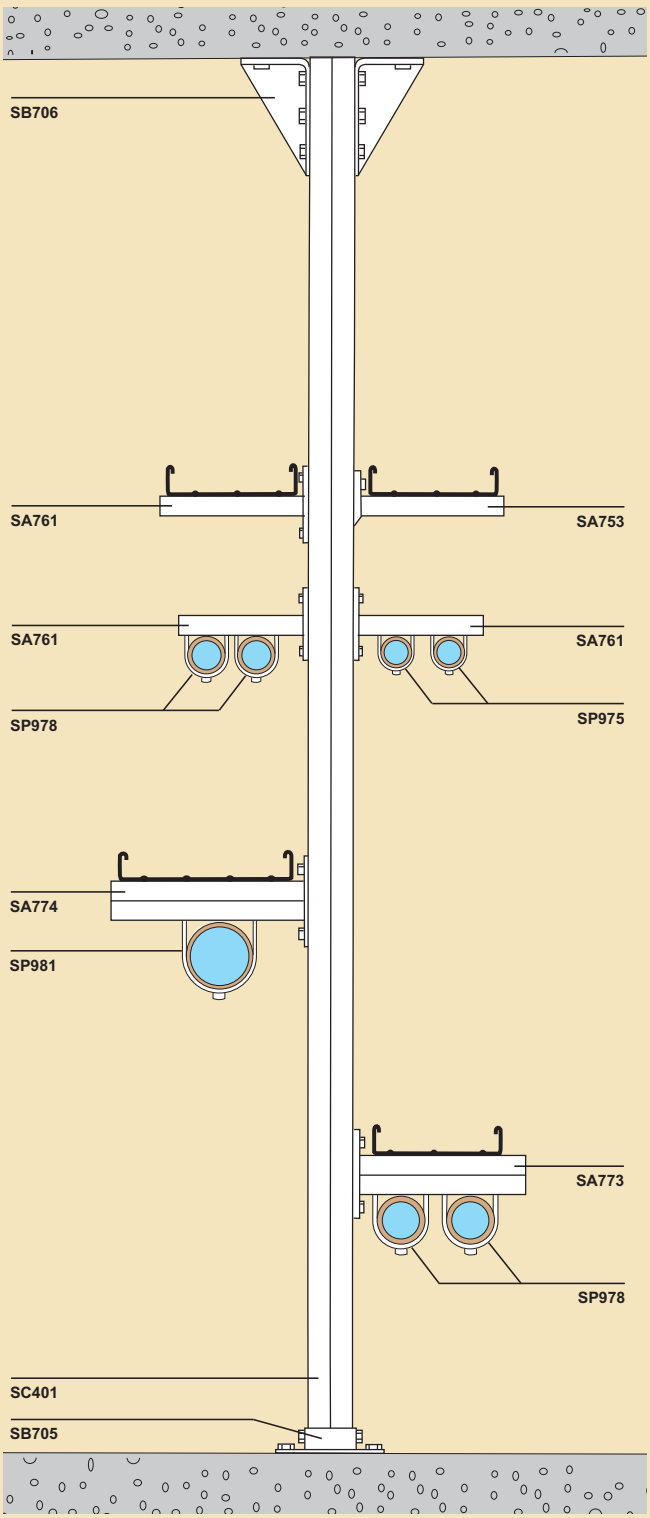
Conforms to BS 6946, Swiftrack includes a versitile range of components which link together to provide support for any building services, including tray, ladder, trunking, piping, sprinkler systems and heat/ventilation ducting. Assembled on site, without welding, Swiftrack can be broken down into various elements. Each element needs to be checked to ensure the following :

– It can safely support the loads being imposed upon it (see p. 300–301)

– The proposed fixing to adjacent elements can also support the required loads (see p. 300)

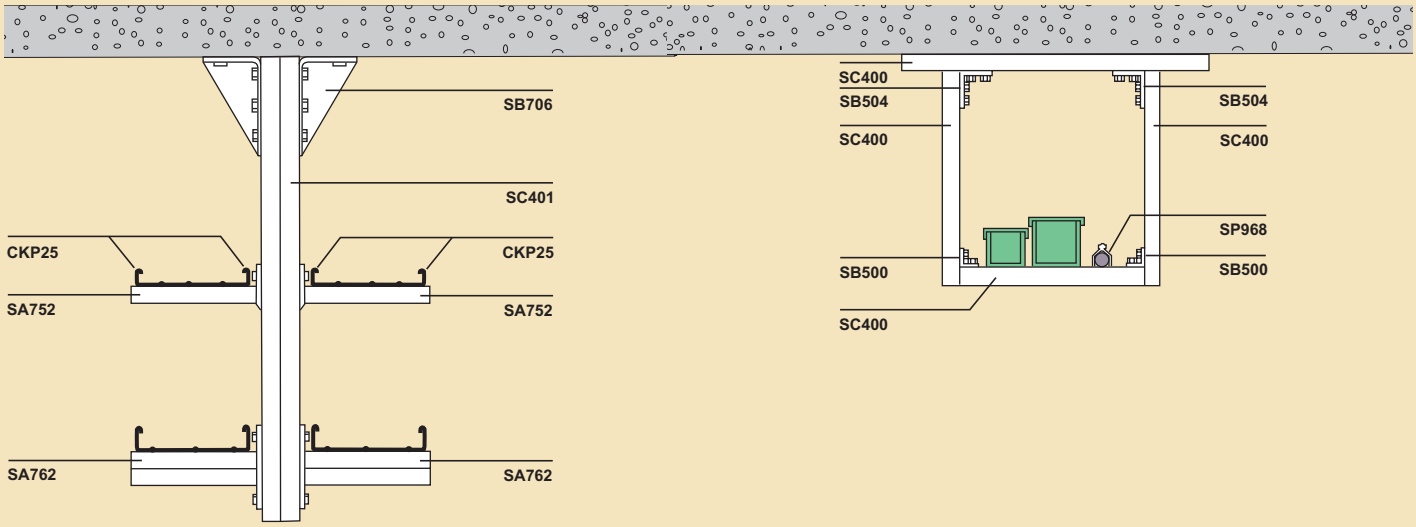
■ Ceiling to floor applications



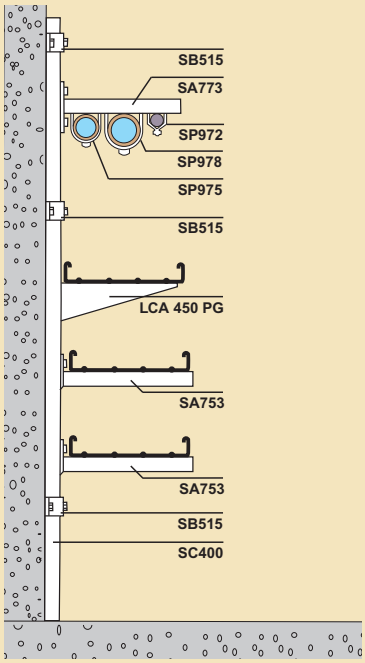


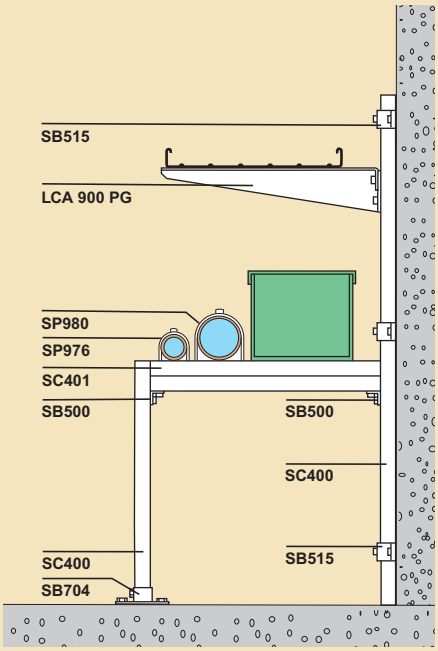
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Ceiling mounted applications

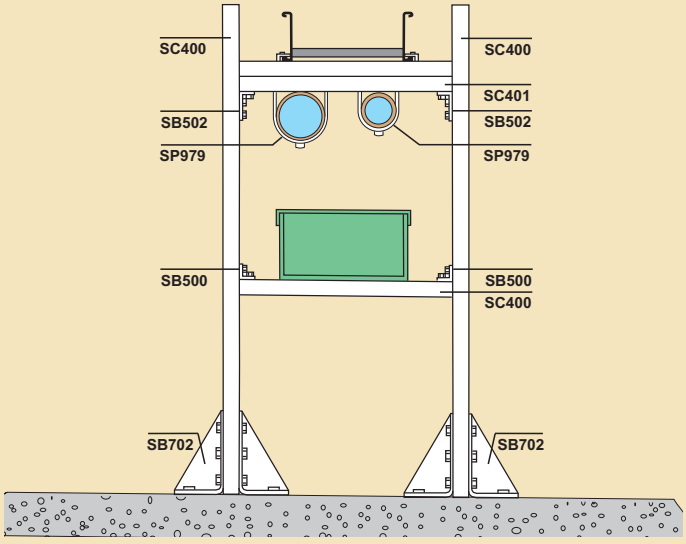


■ Wall mounted applications





■ Floor mounted applications



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
framework brackets

The range of brackets illustrated on pages 292–295 will cover most applications. Special designs can be manufactured to suit particular applications. For easy use see the table below which contains all bracket types, product codes and page references
Brackets are manufactured to BS6946. Unless otherwise stated, brackets are made from 5 or 6 mm thick steel, are 40 mm wide and have 14 mm diameter holes to accept M12 (or smaller) setscrews. All bend radii are 5 mm unless otherwise stated
Steel complies with BS EN 10111. Minimum yield stress of material is 170 N/mm^2. Maximum loads for individual brackets are given in the following illustrations. All loads are for hot dip galvanised brackets fixed with M12 setscrews and M12 zinc plated channel nuts. Loads for stainless steel brackets are available on request – contact us on 0845 605 4333. Bracket weights are given in the following illustrations
All dimensions are in millimetres. Channel nuts and setscrews are not supplied with brackets and must be ordered separately (see p. 297)
The standard finish for all brackets is hot dip galvanised to BS EN ISO 1461. Stainless steel is also available unless otherwise stated
To order stainless steel finish where available add S to the end of the Cat. No. Example : SB 500S

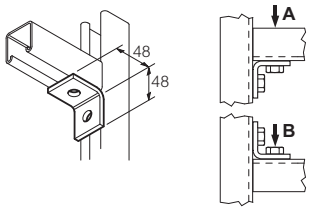
Cat. Nos.	Description	Page Nos.
SB500	90° bracket	292
SB501	90° bracket	292
SB502	90° bracket	292
SB503	90° bracket	292
SB504	90° bracket	292
SB505	90° bracket	292
SB550	90° bracket	292
SB551	90° bracket	292
SB552	90° bracket	292
SB556	90° bracket	292
SB558	90° bracket	292
SB652	90° bracket	292
SB506 06	Square plate	293
SB506 08	Square plate	293
SB506 10	Square plate	293
SB506 12	Square plate	293
SB506 30	Square plate	293
SB507	Splice plate	293
SB508	Splice plate	293
SB509	Splice plate	293
SB510	Splice plate	293
SB511	Z bracket	293
SB512	Z bracket	293
SB513	Z bracket	293
SB514	U bracket	293
SB515	U bracket	293
SB516	U bracket	293

Cat. Nos.	Description	Page Nos.
SB517	U bracket	293
SB520	Obtuse angle bracket	293
SB521	Obtuse angle bracket	293
SB522	Obtuse angle bracket	293
SB523	Obtuse angle bracket	293
SB524	Obtuse angle bracket	293
SB525	Obtuse angle bracket	293
SB526	Obtuse angle bracket	293
SB527	Obtuse angle bracket	293
SB528	Obtuse angle bracket	293
SB529	Obtuse angle bracket	293
SB530	Acute angle bracket	293
SB531	Acute angle bracket	293
SB532	Acute angle bracket	293
SB533	Acute angle bracket	293
SB534	Acute angle bracket	293
SB535	Acute angle bracket	293
SB536	Acute angle bracket	293
SB537	Acute angle bracket	293
SB538	Angle bracket	293
SB539	Angle bracket	293
SB541	Angle plate	293
SB557	Angle plate	293
SB554	T plate	294
SB555	T plate	294
SB603	T bracket	294
SB603+	Cross plate	294

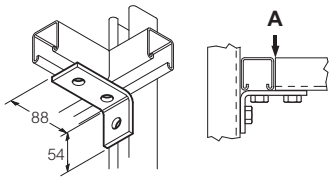
Cat. Nos.	Description	Page Nos.
SB604	Corner bracket	294
SB605	Corner bracket	294
SB606	T bracket	294
SB607	T bracket	294
SB518	Jointing bracket	294
SB650	Jointing channel	294
SB651	Jointing channel	294
SB600	L bracket	294
SB601	L corner bracket	294
SB602	L corner bracket	294
SB700	Wing bracket	294
SB701	Wing bracket	294
SB707	Wing bracket	294
SB703	Shelf bracket	294
SB704	Base plate	294
SB705	Base plate	294
SB702	Gusseted bracket	295
SB706	Gusseted bracket	295
SC850	Beam clamp	295
SC851	Beam clamp	295
SC852 21	Window beam clamp	295
SC852 41	Window beam clamp	295
SC852 82	Beam clamp	295
SC853	Beam clamp	295
SC854	Beam clamp	295
SC855	Beam clamp	295
SC856	Toe beam clamp	295

Cat. Nos.	Description	Page Nos.
ZC1	Beam clamp	295
FL2	Beam clamp	295
SP960	Pipe clamp	295
SP961	Pipe clamp	295
SP964	Pipe clamp	295
SP965	Pipe clamp	295
SP968	Pipe clamp	295
SP969	Pipe clamp	295
SP972	Pipe clamp	295
SP973	Pipe clamp	295
SP975	Pipe clamp	295
SP976	Pipe clamp	295
SP977	Pipe clamp	295
SP978	Pipe clamp	295
SP979	Pipe clamp	295
SP980	Pipe clamp	295
SP981	Pipe clamp	295
SP982	Pipe clamp	295
SP983	Pipe clamp	295
SP984	Pipe clamp	295
SP985	Pipe clamp	295
SC950	Channel accessories	295
SC951	Channel accessories	295
SC952	Channel accessories	295
SC953	Channel accessories	295
CKP25	Channel accessories	295

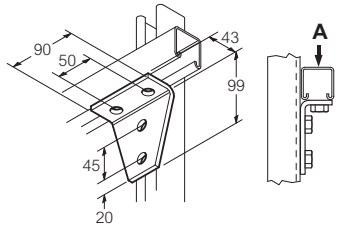
90° brackets



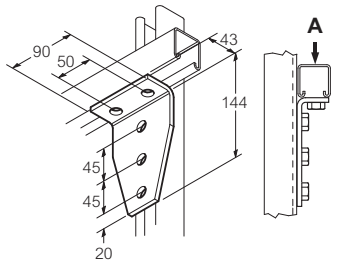
Cat. No. SB500
Unit weight (kg) : 0·14
Max load on each bracket (kgf) :
A = 174 B = 350 t = 5 mm



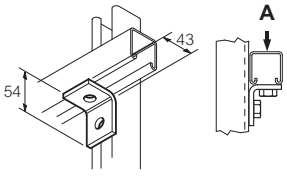
Cat. No. SB503
Unit weight (kg) : 0·23
Max load on each bracket (kgf) :
A = 120 t = 5 mm



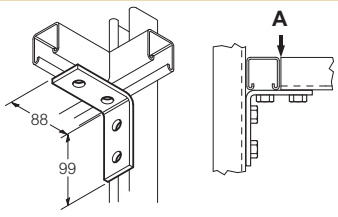
Cat. No. SB550
Unit weight (kg) : 0·43
Max load on each bracket (kgf) :
A = 600 t = 5 mm



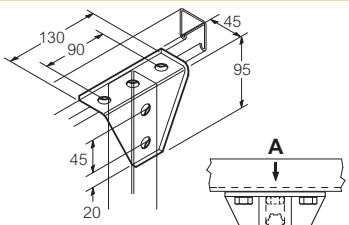
Cat. No. SB551
Unit weight (kg) : 0·61
Max load on each bracket (kgf) :
A = 600 t = 5 mm



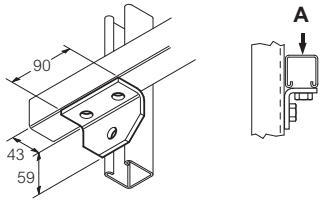
Cat. No. SB501
Unit weight (kg) : 0·14
Max load on each bracket (kgf) :
A = 187 t = 5 mm



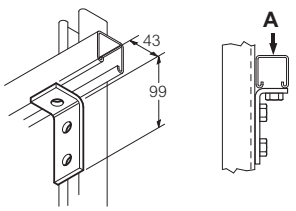
Cat. No. SB504
Unit weight (kg) : 0·32
Max load on each bracket (kgf) :
A = 120 t = 5 mm



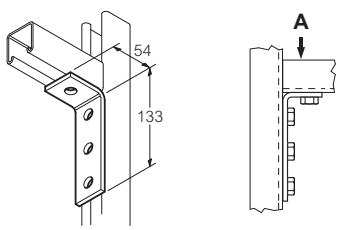
Cat. No. SB552
Unit weight (kg) : 0·50
Max load on each bracket (kgf) : A = 700 t = 5 mm



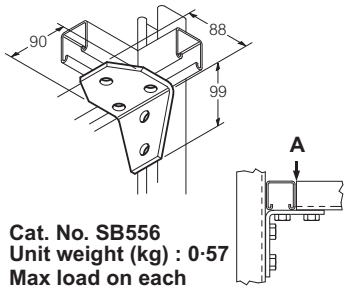
Cat. No. SB558
Unit weight (kg) : 0·34
Max load on each bracket (kgf) :
A = 350 t = 5 mm



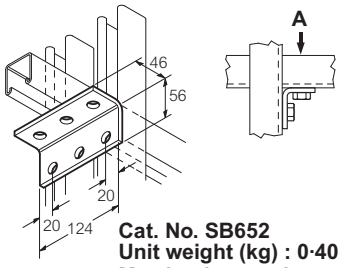
Cat. No. SB502
Unit weight (kg) : 0·23
Max load on each bracket (kgf) :
A = 230 t = 5 mm



Cat. No. SB505
Unit weight (kg) : 0·32
Max load on each bracket (kgf) :
A = 311 t = 5 mm



Cat. No. SB556
Unit weight (kg) : 0·57
Max load on each bracket (kgf) : A = 260 t = 5 mm



Cat. No. SB652
Unit weight (kg) : 0·40
Max load on each bracket (kgf) :
A = 700 t = 5 mm

NOTE : t = thickness

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

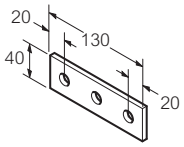
Swiftrack channel support system
framework brackets (continued)

Square and splice plates



Square plates
Cat. Nos.
SB50606 – M6
SB50608 – M8
SB50610 – M10
SB50612 – M12

Unit weight (kg) : 0·07 t = 5 mm
Hole clearance for M6, M8, M10 and M12 bolts

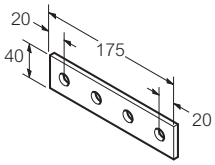


Splice plate(2)
Cat. No. SB508
Unit weight (kg) : 0·23 t = 5 mm
Hole clearance for M12 bolts

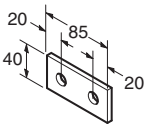


Square plate(1)
Cat. No. SB50630 12
Unit weight (kg) : 0·07 t = 5 mm

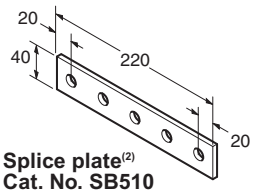
Hole clearance for M12 bolts
For use on inside of slotted channel



Splice plate(2)
Cat. No. SB509
Unit weight (kg) : 0·32 t = 5 mm
Hole clearance for M12 bolts



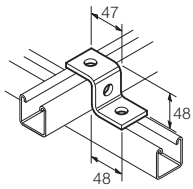
Splice plate(2)
Cat. No. SB507
Unit weight (kg) : 0·14 t = 5 mm
Hole clearance for M12 bolts



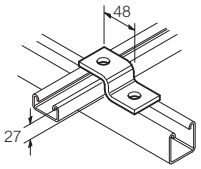
Splice plate(2)
Cat. No. SB510
Unit weight (kg) : 0·41 t = 5 mm
Hole clearance for M12 bolts

(1) SB5063012 is not available in S finish (2) Splice plates – holes spaced at 45 mm centres

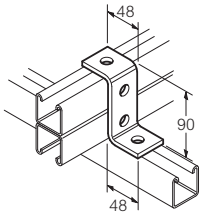
Z brackets



Cat. No. SB511
40 mm Z bracket
Unit weight (kg) : 0·22 t = 5 mm

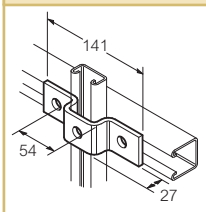


Cat. No. SB513
20 mm Z bracket
Unit weight (kg) : 0·18 t = 5 mm

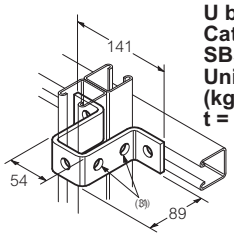


Cat. No. SB512
80 mm Z bracket
Unit weight (kg) : 0·29 t = 5 mm

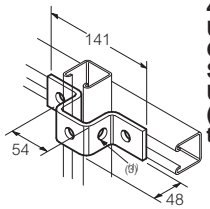
U Brackets



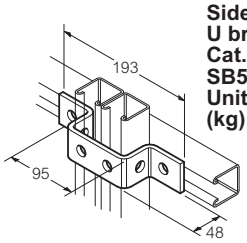
20 mm U bracket
Cat. No. SB514
Unit weight (kg) : 0·29 t = 5 mm



80 mm U bracket
Cat. No. SB516
Unit weight (kg) : 0·52 t = 5 mm



40 mm U bracket
Cat. No. SB515
Unit weight (kg) : 0·37 t = 5 mm

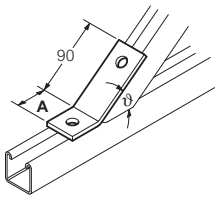


Side by side U bracket
Cat. No. SB517
Unit weight (kg) : 0·45 t = 5 mm

(3) Hole on one side of bracket only
NOTE : t = thickness

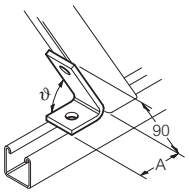
Angle brackets

Obtuse angle brackets

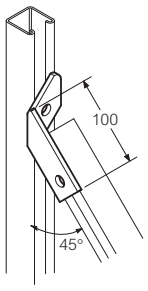


Cat. Nos.	Unit weight (kg)	Angle ϑ	t (mm)	A (mm)
SB520	0·25	15°	5	40
SB521	0·25	22½°	5	40
SB522	0·25	30°	5	40
SB523	0·25	37½°	5	40
SB524	0·25	45°	5	40
SB525	0·25	52½°	5	40
SB526	0·25	60°	5	40
SB527	0·25	67½°	5	40
SB528	0·25	75°	5	40
SB529	0·25	82½°	5	40

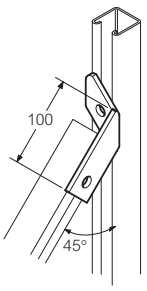
Acute angle brackets



Cat. Nos.	Unit weight (kg)	Angle ϑ	t (mm)	A (mm)
SB530	0·32	30°	5	70
SB531	0·32	37½°	5	70
SB532	0·29	45°	5	60
SB533	0·29	52½°	5	60
SB534	0·25	60°	5	40
SB535	0·25	67½°	5	40
SB536	0·25	75°	5	40
SB537	0·25	82½°	5	40

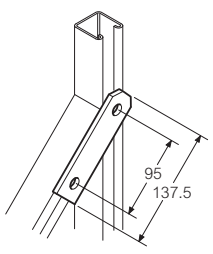


Right hand angle bracket
Cat. No. SB538
Unit weight (kg) : 0·25
Angle : 45°

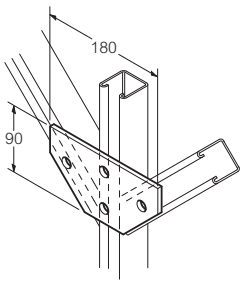


Left hand angle bracket
Cat. No. SB539
Unit weight (kg) : 0·25
Angle : 45°

Angle plates



Adjustable angle plate
Cat. No. SB541
Unit weight (kg) : 0·24
t = 5 mm

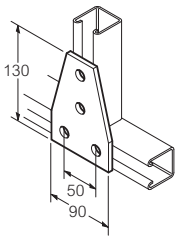


45° angle plate
Cat. No. SB557
Unit weight (kg) : 0·56
t = 5 mm

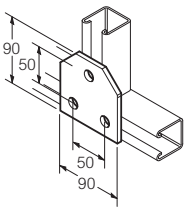
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
framework brackets (continued)

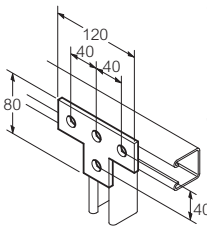
T plates and brackets



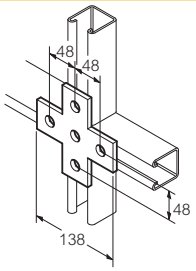
T plate
Cat. No. SB554
Unit weight (kg) : 0·43
t = 5 mm



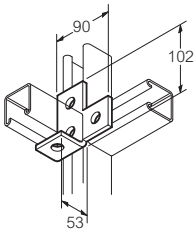
T plate
Cat. No. SB555
Unit weight (kg) : 0·34
t = 5 mm



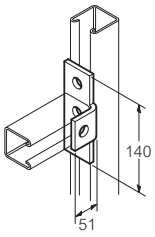
T bracket
Cat. No. SB603
Unit weight (kg) : 0·32
t = 5 mm



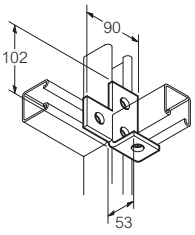
Cross plate
Cat. No. SB603+
Unit weight (kg) : 0·35
t = 6 mm



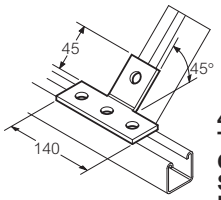
Right hand T corner bracket
Cat. No. SB604(1)
Unit weight (kg) : 0·32
t = 6 mm



90° T bracket
Cat. No. SB606(1)
Unit weight (kg) : 0·32
t = 6 mm



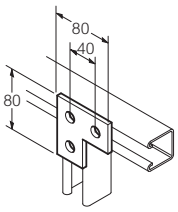
Left hand T corner bracket
Cat. No. SB605(1)
Unit weight (kg) : 0·32
t = 6 mm



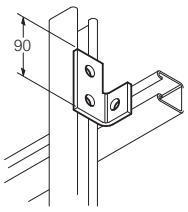
45° T bracket
Cat. No. SB607(1)
Unit weight (kg) : 0·32
t = 6 mm

(1) SB604, SB605, SB606 and SB607 are not available in S (stainless steel) finish

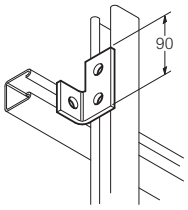
L brackets



L bracket
Cat. No. SB600
Unit weight (kg) : 0·27
t = 5 mm

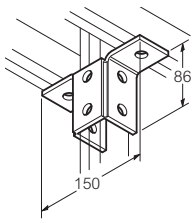


Right hand L corner bracket
Cat. No. SB601(2)
Unit weight (kg) : 0·27
t = 6 mm

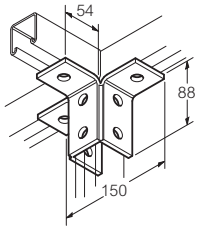


Left hand L corner bracket
Cat. No. SB602(2)
Unit weight (kg) : 0·27
t = 6 mm

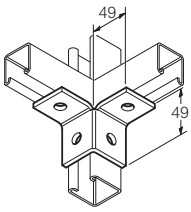
Wing brackets



2 lug wing bracket
Cat. No. SB700
Unit weight (kg) : 0·66
t = 5 mm



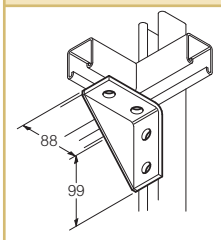
3 lug wing bracket
Cat. No. SB701
Unit weight (kg) : 0·75
t = 5 mm



Angled wing bracket
Cat. No. SB707(2)
Unit weight (kg) : 0·28
t = 5 mm

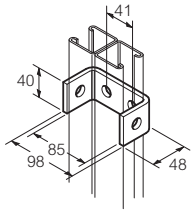
(2) SB601, SB602 and SB707 are not available in S (stainless steel) finish

Shelf bracket

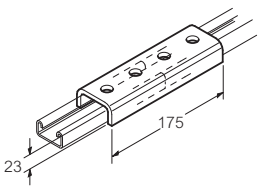


Cat. No. SB703
Unit weight (kg) : 0·51
t = 5 mm
3 mm gusset

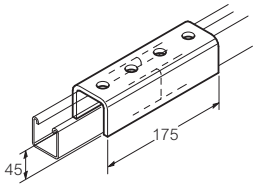
Jointing brackets and channels



Channel jointing bracket
Cat. No. SB518
Unit weight (kg) : 0·31
t = 5 mm

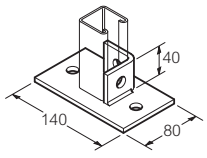


Jointing channel for SC200 channel
Cat. No. SB650
Unit weight (kg) : 0·55
t = 5 mm

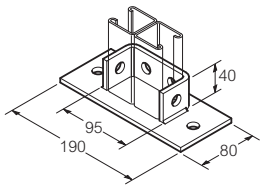


Jointing channel for SC400 channel
Cat. No. SB651
Unit weight (kg) : 0·85
t = 5 mm

Base plates



Single channel base plate
Cat. No. SB704
Unit weight (kg) : 0·71
t = 5 mm
Distance between hole centres 100 mm



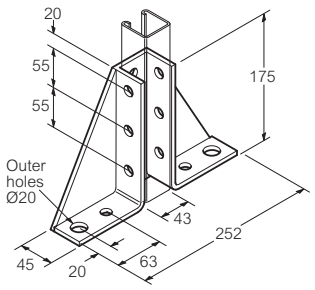
Double channel base plate
Cat. No. SB705
Unit weight (kg) : 1·00
t = 5 mm
Distance between hole centres 150 mm

NOTE : t = thickness

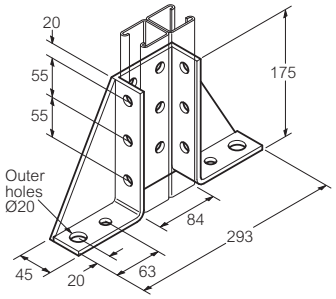
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
framework brackets, clamps and accessories

Gusseted brackets

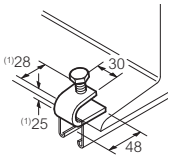


Single channel gusseted bracket
Cat. No. SB702
Unit weight (kg) : 2·09
t = 5 mm
5 mm gusset



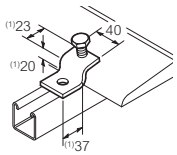
Double channel gusseted bracket
Cat. No. SB706
Unit weight (kg) : 2·37
t = 5 mm
5 mm gusset

Beam, window beam and toe beam clamps



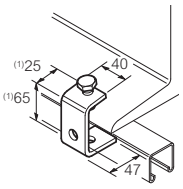
Beam clamp(2)
Cat. No. SC850
Unit weight (kg) : 0·16
t = 5 mm

Max load on each bracket (kgf) : 400 pair/pair. Use in pairs

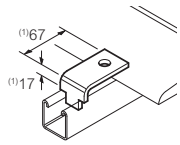


Beam clamp(2)
Cat. No. SC854
Unit weight (kg) : 0·17
t = 6 mm

Max load on each bracket (kgf) : 350/pair. Use in pairs

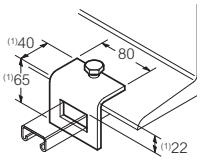


Beam clamp(2)
Cat. No. SC851
Unit weight (kg) : 0·26
t = 5 mm
Max load on each bracket (kgf) : 200/pair



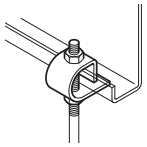
Toe beam clamp(2)
Cat. No. SC856(3)

Unit weight (kg) : 0·15 t = 5 mm
Max load on each bracket (kgf) : 400/pair. Use in pairs



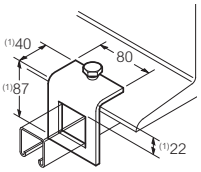
Window beam clamp(2)
Cat. No. SC852/21
Unit weight (kg) : 0·37
t = 6 mm

Max load on each bracket (kgf) : 475/pair. Use in pairs
For 21 mm deep channel



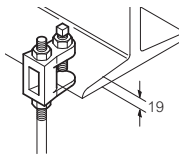
Beam clamp
Cat. No. ZC1(4)
Unit weight (kg) : 0·10
t = 6 mm

Max load on each bracket (kgf) : 25



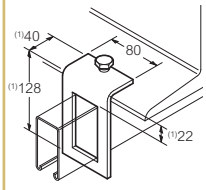
Window beam clamp(2)
Cat. No. SC852/41
Unit weight (kg) : 0·52 pair
t = 6 mm

Max load on each bracket (kgf) : 475/pair. Use in pairs
For 41 mm deep channel



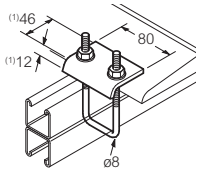
Beam clamp(2)
Cat. No. FL2(4)
Unit weight (kg) : 0·15
t = 6 mm

Max load on each bracket (kgf) : 240



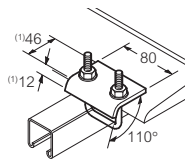
Beam clamp(2)
Cat. No. SC852/82
Unit weight (kg) : 0·56
t = 6 mm

Max load on each bracket (kgf) : 475/pair. Use in pairs
For SC401 back-to-back channel



Beam clamp(2)
Cat. No. SC855
Unit weight (kg) : 0·37
t = 5 mm

Max load on each bracket (kgf) : 900/pair. Use in pairs

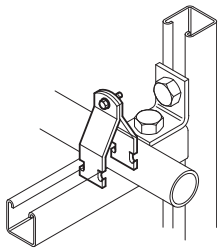


Beam clamp(2)

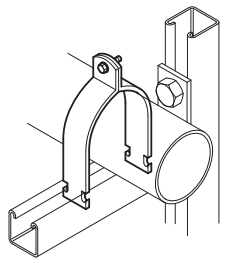
Cat. No. SC853
Unit weight (kg) : 0·36
t = 5 mm

Max load on each bracket (kgf) : 900/pair
Use in pairs. U bolts and nuts supplied

Pipe clamps(5)



SP960-SP973

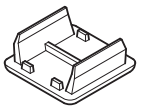
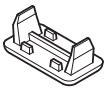
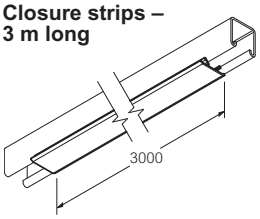


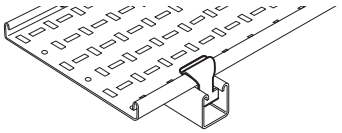
SP975-SP985

Nuts and bolts supplied

Cat. Nos.	Unit weight (kg)	Pipe diameter size (mm)
SP960	0·06	10 – 14
SP961	0·07	13 – 17
SP964	0·08	17 – 22
SP965	0·09	22 – 26
SP968	0·10	25 – 35
SP969	0·11	32 – 42
SP972	0·13	42 – 59
SP973	0·15	54 – 65
SP975	0·16	62 – 71
SP976	0·17	73 – 83
SP977	0·19	81 – 87
SP978	0·20	89 – 101
SP979	0·22	101 – 113
SP980	0·24	113 – 125
SP981	0·25	125 – 135
SP982	0·29	145 – 155
SP983	0·33	170 – 180
SP984	0·38	200 – 212
SP985	0·41	220 – 230

Channel accessories

		Cat. Nos.	Unit weight (kg)
Channel end caps for 41 mm Deep channel 	Black	SC950B	0·9
	White	SC950W	0·9
Channel end caps for 21 mm Shallow channel 	Black	SC951B	0·4
	White	SC951W	0·4
Closure strips – 3 m long 	White plastic	SC952	0·4
	Metal	SC953	1·0

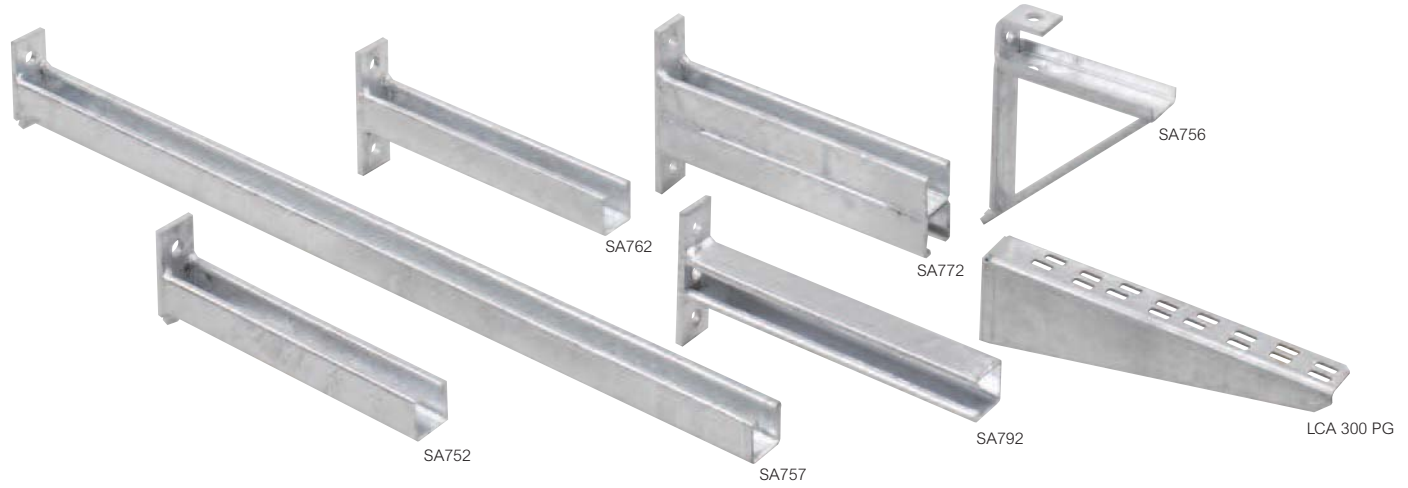


Easi-clip
Cat. No. CKP25
For MRF tray, pack 50
Use in pairs
Zinc coated finish only
Unit weight (kg) : 0·5

(1) Indicates inside dimensions (2) Beam clamps are supplied with nuts, bolts, cone point screws and U bolts where shown (3) Requires 2 setscrews and channel nuts for fixing (not included)
(4) Stainless steel finish is not available (5) All pipe clamps are available in pre-galvanised and stainless steel finishes NOTE : t = thickness

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
cantilever arms



Dimensions and technical information (p. 302)

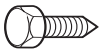
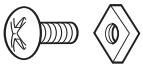
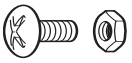
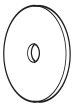
Pack	Cat. Nos.	Cantilever arms
		In addition to the cantilever arms listed, there are many other specialist support brackets for use with cable tray, cable ladder or SW wire cable tray. These are detailed in the relevant sections in this catalogue
		Cantilever arms
		Requires only one bolt for quick fixing and is used with open face at the top
1	SA750	150 mm
1	SA751	225 mm
1	SA752	300 mm
1	SA753	450 mm
1	SA754	600 mm
1	SA755	750 mm
1	SA757	900 mm
		Cantilever arms, universal
		Two bolt fixing. Can be used with open face at the top or bottom
1	SA760	150 mm
1	SA761	225 mm
1	SA762	300 mm
1	SA763	450 mm
1	SA764	600 mm
1	SA765	750 mm
1	SA766	900 mm
		Cantilever arms, side
		Two bolt fixing. Can be used with open face on the left or right
1	SA790	150 mm
1	SA791	225 mm
1	SA792	300 mm
1	SA793	450 mm
1	SA794	600 mm
1	SA795	750 mm
1	SA796	900 mm

Pack	Cat. Nos.	Cantilever arms (continued)
		Cantilever arms, double channel
		Two bolt fixing with extra support Open face top and bottom
1	SA770	150 mm
1	SA771	225 mm
1	SA772	300 mm
1	SA773	450 mm
1	SA774	600 mm
1	SA775	750 mm
1	SA776	900 mm
		Cantilever arm bracket
1	SA756	Used to provide extra support to a horizontal run of channel
		Cantilever arms
		Used to support horizontal runs of tray on to a vertical length of channel
1	LCA 100 F	100 mm
1	LCA 150 F	150 mm
1	LCA 225 F	225 mm
1	LCA 300 F	300 mm
1	LCA 450 F	450 mm
1	LCA 600 F	600 mm
1	LCA 750 F	750 mm
1	LCA 900 F	900 mm

Key : selecting supports. Replace the letters shown in red with your choice from the following options :
F = Finish : G (hot dip galvanised after manufacture),
D (deep galvanised), PG (pre-galvanised)
S (stainless steel)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support systems
standard fixings and fastenings

Screws		Nuts and bolts			Washers				
Hexagon head setscrews	Cone point screws	Hexagon nuts	Electroplated roofing nuts and bolts	Hot dip galvanised roofing nuts and bolts	Flat washers	Roofing washers	Penny washers	Shakeproof washers	Tray washers
									

Pack	Cat. Nos.	Size
Hexagon head setscrews		
ELECTROPLATED ZINC		
200	SS0616	M6 x 16
200	SS0620	M6 x 20
200	SS0625	M6 x 25
200	SS0630	M6 x 30
200	SS0820	M8 x 20
200	SS0825	M8 x 25
200	SS0830	M8 x 30
200	SS0835	M8 x 35
200	SS0840	M8 x 40
200	SS1016	M10 x 16
200	SS1020	M10 x 20
200	SS1025	M10 x 25
200	SS1030	M10 x 30
100	SS1035	M10 x 35
100	SS1040	M10 x 40
100	SS1045	M10 x 45
100	SS1050	M10 x 50
100	SS1060	M10 x 60
100	SS1220	M12 x 20
100	SS1225	M12 x 25
100	SS1230	M12 x 30
100	SS1235	M12 x 35
100	SS1240	M12 x 40
100	SS1250	M12 x 50
HOT DIP GALVANISED		
200	SSG0612	M6 x 12
200	SSG0616	M6 x 16
200	SSG0620	M6 x 20
STAINLESS STEEL		
100	SS0620 S	M6 x 20
100	SS0625 S	M6 x 25
100	SS0825 S	M8 x 25
100	SS0835 S	M8 x 35
100	SS1016 S	M10 x 16
100	SS1025 S	M10 x 25
100	SS1040 S	M10 x 40
100	SS1225 S	M12 x 25
Cone point screws		
ELECTROPLATED ZINC		
100	CP1035	M10 x 35
STAINLESS STEEL		
100	CP1035 S	M10 x 35
Hexagon nuts		
ELECTROPLATED ZINC		
500	HN06	M6
500	HN08	M8
200	HN10	M10
200	HN12	M12
HOT DIP GALVANISED		
500	HNG06	M6

Pack	Cat. Nos.	Size
Hexagon nuts		
STAINLESS STEEL		
100	HN06 S	M6
100	HN08 S	M8
100	HN10 S	M10
100	HN12 S	M12
Roofing nuts and bolts		
ELECTROPLATED ZINC		
200	RB0612	M6 x 12
200	RB0616	M6 x 16
200	RB0620	M6 x 20
200	RB0625	M6 x 25
100	RB0630	M6 x 30
100	RB0640	M6 x 40
100	RB0650	M6 x 50
HOT DIP GALVANISED		
100	RBG0612	M6 x 12
100	RBG0616	M6 x 16
STAINLESS STEEL		
100	RB0612 S	M6 x 12
100	RB0616 S	M6 x 16
100	RB0620 S	M6 x 20
Flat washers		
ELECTROPLATED ZINC		
500	FW06	M6
500	FW08	M8
500	FW10	M10
200	FW12	M12
STAINLESS STEEL		
100	FW06 S	M6
100	FW08 S	M8
100	FW10 S	M10
100	FW12 S	M12
Roofing washers		
HOT DIP GALVANISED		
500	RWG06	M6
Penny washers		
ELECTROPLATED ZINC		
400	PW06	M6 x 25
400	PW08	M8 x 25
400	PW10	M10 x 38
400	PW12	M12 x 40
Shakeproof washers		
ELECTROPLATED ZINC		
400	SW06	M6
400	SW08	M8
400	SW10	M10
400	SW12	M12
Tray washers		
ELECTROPLATED ZINC		
400	TW06	M6 x 20
HOT DIP GALVANISED		
100	TWG06	M6 x 20

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support systems
standard fixings and fastenings (continued)

Threaded rods

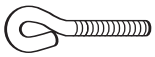
Pack	Cat. Nos.	Size
ELECTROPLATED ZINC		
3 m	TR06	M6 x 3 m
3 m	TR08	M8 x 3 m
3 m	TR10	M10 x 3 m
3 m	TR12	M12 x 3 m
STAINLESS STEEL		
3 m	TR06 S	M6 x 3 m
3 m	TR08 S	M8 x 3 m
3 m	TR10 S	M10 x 3 m
3 m	TR12 S	M12 x 3 m

Threaded rod connectors



Pack	Cat. Nos.	Size
ELECTROPLATED ZINC		
1	RC06	M6
1	RC08	M8
1	RC10	M10
1	RC12	M12

Eye bolts



Pack	Cat. Nos.	Size
ELECTROPLATED ZINC		
1	EB06	M6 x 80
1	EB08	M8 x 80
1	EB10	M10 x 80
1	EB12	M12 x 80

Swiftrack channel support systems
engineering data

■ Fastenings

Fastening brackets and supports to Swiftrack channel
Standard fastenings for Swiftrack are high tensile hexagon head setscrews to BS 3692-8·8, these being zinc plated to BS 3382 : Part 2

Channel type	Fitting thickness(1)	Recommended fastening(2)
Deep channel SC400 series	6 mm and 8 mm	M10 or M12 x 35 mm(3)
	5 mm and 6 mm	M10 or M12 x 30 mm
Shallow channel SC200 series	7 mm and 8 mm	M10 or M12 x 25 mm(3)
	5 mm and 6 mm	M10 or M12 x 20 mm

(1) Most standard Swiftrack brackets are made from 5 mm gauge steel
(2) The use of too long a fastening will prevent proper tightening because the bolt end will foul the bottom of the channel before the head tightens down on the fitting
(3) When fastening brackets other than Swiftrack, longer bolts may be required if the bracket thickness is greater than 8 mm

Fastening tray to supports
Use M6 x 16 mm zinc plated roofing bolts or pan head bolts

Fastening ladder to supports
Use M10 x 16 mm high tensile hexagon head setscrews

For further assistance contact us on 0845 605 4333

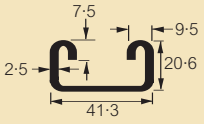
■ Threaded rods – loads (SWL) for connector

Rod Cat. Nos.	Size	Connector Cat. Nos.	SWL (kgf)
TR06	M6	**RC06**	91
TR08	M8	**RC08**	165
TR10	M10	**RC10**	262
TR12	M12	**RC12**	381

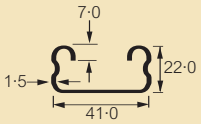
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Single channels

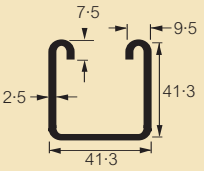
SC200
Weight : 1·8 kg/m



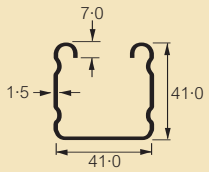
SC210
Ribbed strut designed to fit channel nuts
Weight : 1·2 kg/m



SC400
Weight : 2·6 kg/m

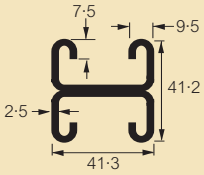


SC410
Ribbed strut designed to fit channel nuts
Weight : 1·7 kg/m

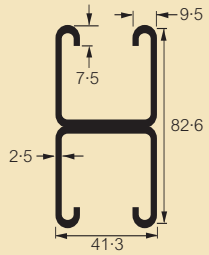


■ Back-to-back channels

SC201
Weight : 3·6 kg/m

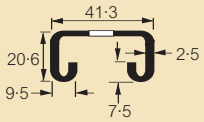


SC401
Weight : 5·2 kg/m

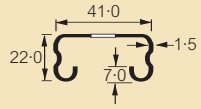


■ Slotted channels

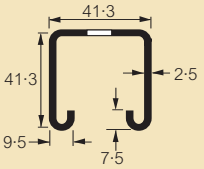
SC203
Weight : 1·6 kg/m



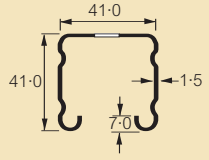
SC213
Weight : 1·0 kg/m

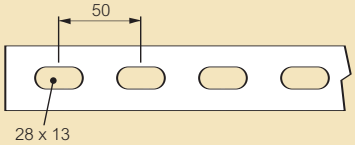


SC403
Weight : 2·4 kg/m



SC413
Weight : 1·5 kg/m





Slot pattern may differ on stainless steel channels
Contact us on 0845 605 4333

■ Channels

Standard channels are cold rolled to BS 6946 from 2·5 mm pre-galvanised mild steel to BS EN 10326 grade S250GD Z275

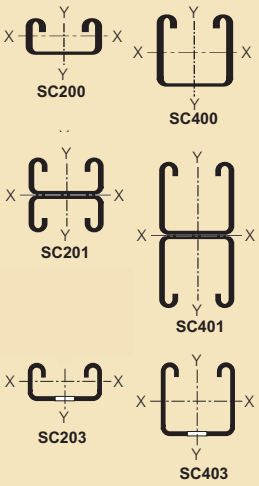
Light gauge channels are cold rolled from 1·5 mm pre-galvanised mild steel to BS EN 10326 grade S250GD Z275

Back-to-back channels are formed by spot welding together two finished single channels at 150 mm centres under controlled conditions to BS 5950 : Part 5 1987. All welds and spot welds are suitably protected

The standard lengths for single or multiple channels are 3 m and 6 m

Minimum yield strength, Ys : 250N/mm²
Minimum ultimate strength : 350N/mm²
Minimum design strength, Py : 250N/mm²

Section properties



Cat. Nos.	Wt (kg/m)	A (mm^2)	I_{xx} (mm^4)	Z_{top} (min mm^3)	Z_{bottom} (max mm^3)	r_{xx} (mm)	I_{yy} (mm^4)	r_{yy} (mm)
SC200	1·8	219	10779	862	1330	7·1	49776	15·1
SC201	3·6	439	50507	2451	2451	10·8	99552	15·1
SC203	1·6	219	8960	794	961	6·4	49318	15·0
SC400	2·6	322	67157	2857	3772	14·5	88783	16·6
SC401	5·3	645	339300	8215	8215	23·0	177566	16·6
SC403	2·4	322	57221	2645	2909	13·3	88325	16·5

Wt = weight of section (kg/m)
A = cross-sectional area (mm^2)
I_{xx} = moment of inertia = second moment of area (mm^4)
Z_{top} = section modulus about xx axis (mm^3)
Z_{bottom} = section modulus about xx axis (mm^3)
r_{xx} = radius of gyration (mm)
I_{yy} = moment of inertia = second moment of area (mm^4)
r_{yy} = radius of gyration (mm)
xx = about xx axis
yy = about yy axis

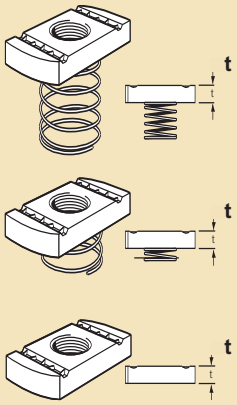
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Channel nuts

The safe working loads for zinc plated channel nuts :

Slip	M12 : 3·5kN M10 : 3·0kN
Pullout	M12 : 8·0kN M10 : 6·0kN
Safety factor	3 when tested to BS6946
Torque	Tightened to M12 : 7 kgf.m (50 ftlb) M10 : 5·5 kgf.m (40ftlb)

Cat. Nos.	t (mm)	Depth of channel (mm)
PN061	6	41
PN081	6	41
PN101	8	41
PN121	10	41
PN062	6	21
PN082	6	21
PN102	8	21
PN122	10	21
PN060	6	all
PN080	6	all
PN100	8	all
PN120	10	all



For maximum load capacity M12 channel nuts should always be used

■ Framework brackets

Brackets are manufactured to BS6946

Unless otherwise stated, brackets are made from 5 mm thick steel to BS EN 10111

Material properties
Minimum yield stress : 170 N/mm^2

Maximum loads
Maximum loads for individual brackets are given with the relevant illustrations (see p. 292). In most cases the mode of failure will be slippage of the bracket along the channel. However there are few channel/bracket combinations where the maximum load is dependent upon the strength of the bracket itself. Only M10 or M12 channel nuts and bolts should be used for the attachment of load-bearing brackets

■ Channels used as beams

The maximum safe load for a channel can be calculated knowing the strength of the steel (yield stress). Alternatively, if the appearance of the channel under load is considered important, then its deflection can be kept within visually acceptable limits

Deflection limitations may render a lower recommended loading than that calculated from the strength of the steel

Thus the two alternative approaches are :
1 To apply a maximum mid-span deflection of 1/200th of the span
2 To place no limit on deflection and to apply a maximum load derived from calculations which include both the minimum yield stress of the steel and a safety factor (1·6)

Details of the maximum recommended uniformly distributed and point loads under both of these conditions are given in the table on the page opposite. These are provided for unrestrained condition (see below) and they apply to the worst situation of a simple single span only

If, in practice, loads are neither uniformly distributed across the complete beam nor imposed at mid-span only, it is still possible to use a safe approximation and assess the suitability of a channel section. Do this by assuming that all loads are point loads imposed at mid-span only, and then consider the point load data in the table. This approximation will render a cautious result, which is nevertheless sufficient in most cases to show that a channel is satisfactory. However, if it does yield an unsatisfactory result check with Legrand, as the degree of inherent caution is such that the design may still be safe. Legrand will be pleased to re-check your calculations, using your intended loadings

The data provided in the table opposite is calculated in accordance with BS5950 : Part 5

■ Channels used as columns

It is rare that any loads will be applied only to the end of a vertical column. Most practical loading conditions involve the use of brackets and fittings attached to the open side of the channel. Loads applied in this way will produce a combined axial force down the column and a bending force on the side of the column which will reduce the allowable maximum load. The effects of such eccentric loadings should be carefully checked in accordance with standard design practice as given in BS5950 : Part 5

For further advice and assistance, contact us on 0845 605 4333

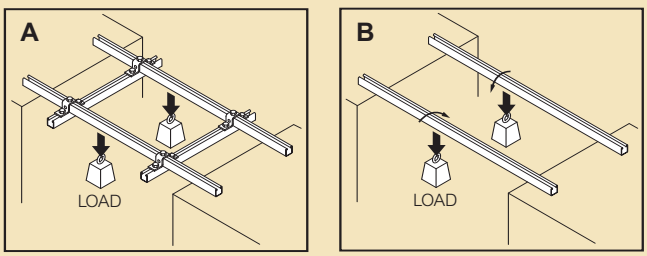
■ Fully restrained and unrestrained loads

There are two alternative approaches to providing information on the structural strength of channel section used as beams

Data is sometimes given on the basis of a fully restrained condition, which assumes that the channel section is in some way completely prevented from twisting under load (see illustration A). Alternatively data may be given on the basis of an unrestrained condition which assumes that, because no channel is perfect, placing it under load may result in some twisting taking place even though the ends of the channel are firmly secured (see illustration B)

Because the channel is constrained to remain in the optimum position, data given on a fully restrained basis will, for larger spans, suggest that a far higher load can be applied than with the unrestrained condition

Both alternative sets of data are given in the beam load tables (see p. 301). However, unless positive intermediate restraint is applied to completely prevent any twisting it is recommended that the data for unrestrained channels, given in the table, should normally be used



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Swiftrack channel support system
loads (continued)

■ Beam loads

Cat. Nos.	Distance between supports (m)	Laterally unrestrained condition Safe maximum loads: Uniformly distributed across span (kgf)	Laterally unrestrained condition Safe maximum loads: Point load at mid-span (kgf)	Laterally unrestrained condition Maximum deflection of span/200: UD load (kgf)	Laterally unrestrained condition Maximum deflection of span/200: Point load at mid-span (kgf)	Fully laterally restrained condition Safe maximum loads: Uniformly distributed across span (kgf)	Fully laterally restrained condition Safe maximum loads: Point load at mid-span (kgf)	Fully laterally restrained condition Maximum deflection of span/200: UD load (kgf)	Fully laterally restrained condition Maximum deflection of span/200: Point load at mid-span (kgf)
SC400	0·20	700(2)	700(2)	700(2)	700(2)	700(2)	700(2)	700(1)	700(1)
SC200	0·20	687	343	687(1)	343(1)	687	343	687(1)	343(1)
SC401	0·20	700(2)	700(2)	700(2)	700(2)	700(2)	700(2)	700(1)	700(1)
SC201	0·20	700(2)	700(2)	700(2)	700(2)	700(2)	700	700(1)	700(1)
SC400	0·40	700(2)	561	700(2)	561(1)	700(2)	561	700(1)	561(1)
SC200	0·40	343	171	343(1)	171(1)	343	171	343(1)	171(1)
SC401	0·40	700(2)	700(2)	700(2)	700(2)	700(2)	700(2)	700(1)	700(1)
SC201	0·40	700(2)	457	700(2)	457(1)	700	457	700(1)	457(1)
SC400	0·60	700	374	747(1)	374(1)	747	374	700(1)	374(1)
SC200	0·60	226	113	226(1)	113(1)	228	114	228(1)	114(1)
SC401	0·60	700(2)	700(2)	700(2)	700(2)	700(2)	700	700(1)	700(1)
SC201	0·60	603	302	603(1)	302(1)	608	304	608(1)	304(1)
SC400	0·80	543	271	543(1)	271(1)	560	280	560(1)	280(1)
SC200	0·80	164	82	134	82(1)	170	85	134	84
SC401	0·80	700(2)	700	700(2)	700(1)	700(2)	700	700(1)	700(1)
SC201	0·80	437	218	437(1)	218(1)	455	227	455(1)	227(1)
SC400	1·00	419	210	419(1)	210(1)	447	223	447(1)	223(1)
SC200	1·00	126	63	85	53	136	68	85	53
SC401	1·00	700(2)	548	700(2)	548(1)	700(2)	582	700(1)	582(1)
SC201	1·00	337	168	337(1)	168(1)	363	181	363(1)	181(1)
SC400	1·20	336	168	336(1)	168(1)	371	186	371(1)	186(1)
SC200	1·20	101	50	58	36	113	56	58	36
SC401	1·20	700(2)	440	700(2)	440(1)	700	484	700(1)	484(1)
SC201	1·20	270	135	270(1)	135(1)	301	151	277	151(1)
SC400	1·40	275	138	271	138(1)	317	159	271	159(1)
SC200	1·40	83	41	42	26	96	48	42	26
SC401	1·40	700	361	700(1)	361(1)	700	414	700(1)	414(1)
SC201	1·40	221	111	202	111(1)	257	128	202	126
SC400	1·60	230	115	206	115(1)	277	139	206	129
SC200	1·60	69	35	31	19	83	42	31	19
SC401	1·60	604	302	604(1)	302(1)	700	362	700(1)	362(1)
SC201	1·60	185	93	153	93(1)	224	112	153	95
SC400	1·80	194	97	162	97(1)	245	123	162	101
SC200	1·80	59	29	23	15	73	37	23	15
SC401	1·80	510	255	510(1)	255(1)	641	321	641(1)	321(1)
SC201	1·80	157	79	119	74	198	99	119	74
SC400	2·00	165	83	130	81	220	110	130	81
SC200	2·00	51	25	18	11	66	33	18	11
SC401	2·00	434	217	434(1)	217(1)	575	288	575(1)	288(1)
SC201	2·00	135	67	94	59	177	88	94	59
SC400	2·20	142	71	106	66	199	100	106	66
SC200	2·20	44	22	14	9	59	29	14	9
SC401	2·20	371	186	371(1)	186(1)	521	261	521(1)	261(1)
SC201	2·20	116	58	76	47	159	80	76	47
SC400	2·40	123	61	87	55	182	91	87	55
SC200	2·40	38	19	11	7	53	27	11	7
SC401	2·40	319	160	319(1)	160(1)	476	238	460	238(1)
SC201	2·40	101	50	62	39	145	72	62	39
SC400	2·60	107	53	73	46	167	83	73	46
SC200	2·60	33	17	8	5	49	24	8	5
SC401	2·60	276	138	276(1)	138(1)	436	219	389	219(1)
SC201	2·60	88	44	51	32	133	66	51	32
SC400	2·80	94	47	61	38	154	77	61	38
SC200	2·80	29	15	6	4	45	22	6	4
SC401	2·80	240	120	240(1)	120(1)	405	202	333	202(1)
SC201	2·80	77	39	42	26	122	61	42	26
SC400	3·00	82	41	52	33	143	71	52	33
SC200	3·00	25	13	4	3	41	21	4	3
SC401	3·00	209	105	209(1)	105(1)	376	188	286	179
SC201	3·00	68	34	34	21	113	56	34	21

■ Column loads

Section	Maximum axial column load(4): Column height (m)	Maximum axial column load(4): (kgf)
SC400	0·20	6325
SC200	0·20	4279
SC401	0·20	11475
SC201	0·20	8190
SC400	0·40	6217
SC200	0·40	3850
SC401	0·40	11375
SC201	0·40	7853
SC400	0·60	5982
SC200	0·60	2879
SC401	0·60	11041
SC201	0·60	7308
SC400	0·80	5640
SC200	0·80	1867
SC401	0·80	10621
SC201	0·80	6348
SC400	1·00	5102
SC200	1·00	1253
SC401	1·00	10035
SC201	1·00	5010
SC400	1·20	4346
SC200	1·20	891
SC401	1·20	9193
SC201	1·20	3803
SC400	1·40	3549
SC200	1·40	664
SC401	1·40	8088
SC201	1·40	2917
SC400	1·60	2872
SC200	1·60	513
SC401	1·60	6889
SC201	1·60	2289
SC400	1·80	2345
SC200	1·80	408
SC401	1·80	5792
SC201	1·80	1838
SC400	2·00	1938
SC200	2·00	332(3)
SC401	2·00	4874
SC201	2·00	1506
SC400	2·20	1625
SC200	2·20	276(3)
SC401	2·20	4131
SC201	2·20	1255
SC400	2·40	1381
SC200	2·40	233(3)
SC401	2·40	3534
SC201	2·40	1062
SC400	2·60	1186
SC200	2·60	199(3)
SC401	2·60	3051
SC201	2·60	910
SC400	2·80	1030
SC200	2·80	172(3)
SC401	2·80	2658
SC201	2·80	788(3)
SC400	3·00	902
SC200	3·00	150(3)
SC401	3·00	2335
SC201	3·00	689(3)

■ Note to tables

(1) Based on a limited deflection of $\frac{L}{200}$, the safe maximum load value is given which will give a deflection of $< \frac{L}{200}$

(2) Limited by slip on a single bolt connection each end

(3) For columns, the limiting slenderness ratio of 180 is exceeded at the length indicated

(4) It should be noted that maximum axial column loads are supplied for guidance only. It is unlikely that columns will be loaded with axial load only. Most practical load conditions will involve the use of brackets and fittings attached to the column. Loads applied in this way will produce both axial load and bending on the columns which will reduce the allowable maximum load

The above loads have been treated as imposed loads in accordance with BS5950 and accordingly a load factor of f = 1·6 has been assumed. Should the loads to be applied be of a permanent nature it may be appropriate to use a load factor of f = 1·4. This would lead to an increase in the load capacity provided that capacity is not limited by bolt slip or deflection

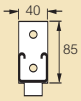
Loads given in the chart are for pre-galvanised channels to BS EN 10326 grade S250GD Z275. The process of manufacturing channel increases the strength of the steel and this increase has been allowed for in the data (as recommended in BS5950 Part 5). However, if channels are subsequently hot dip galvanised the stresses created during manufacture are relieved by the heat of the process, thereby negating the strength enhancement Therefore for hot dip galvanised channels the loads in the chart should be reduced by between 10% and 20% depending on the section. A 20% reduction will provide a conservative maximum load value for all types of hot dip galvanised channel

All loads are for brackets fixed with M12 setscrews and M12 zinc plated channel nuts

■ Supports

Cantilever arms

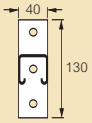
Cat. Nos.	Unit weight (kg)	Arm length (mm)	Maximum uniformly distributed load (kgf)	Point load at outer end (kgf)
SA750	0·64	150	400(1)	303
SA751	0·85	225	396(1)	198
SA752	1·03	300	304	152
SA753	2·42	450	202	101
SA754	1·81	600	150	75
SA755	2·20	750	110	55
SA757	2·60	900	90	45



Values assume the tray, ladder or other loading medium is rigidly fixed to cantilever arm

Cantilever arms, universal

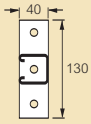
Cat. Nos.	Unit weight (kg)	Arm length (mm)	Maximum uniformly distributed load (kgf)	Point load at outer end (kgf)
SA760	0·64	150	700(1)	350
SA761	0·85	225	456(1)	228
SA762	1·03	300	350	175
SA763	1·42	450	230	115
SA764	1·81	600	170	85
SA765	2·20	750	136	68
SA766	2·60	900	110	55



Values assume the tray, ladder or other loading medium is rigidly fixed to cantilever arm

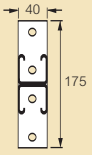
Cantilever arms, side

Cat. Nos.	Unit weight (kg)	Arm length (mm)
SA790	0·64	150
SA791	0·85	225
SA792	1·03	300
SA793	1·42	450
SA794	1·81	600
SA795	2·20	750
SA796	2·60	900

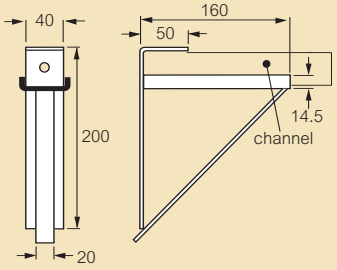


Cantilever arms, double channel

Cat. Nos.	Unit weight (kg)	Arm length (mm)	Maximum uniformly distributed load (kgf)	Point load at outer end (kgf)
SA770	1·14	150	700(1)	648
SA771	1·68	225	700(1)	420
SA772	2·02	300	650	325
SA773	2·90	450	430	215
SA774	3·78	600	320	160
SA775	4·66	750	250	125
SA776	5·60	900	200	100



Cantilever arm bracket
Supplied loose
Horizontal arm section from 3 mm steel only
Unit weight 1·13 kg

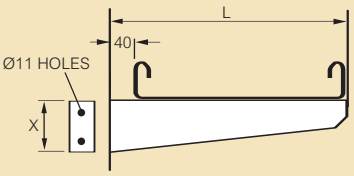


Stainless steel cantilever arms
The loads for stainless steel cantilever arms are 60% of those given in the tables, except those marked (1) where the limit is 50%
Contact us on 0845 605 4333

(1) Channel nut slip limits loading capacity

■ Engineering data

Cantilever arms



Cat. Nos.	L (mm)	X (mm)	Unit weight (kg)	SWL(2) (kgf)
LCA 100 F	140	75	0·30	120(3)
LCA 150 F	190	75	0·40	120(3)
LCA 225 F	265	90	0·60	150
LCA 300 F	340	90	0·80	150
LCA 450 F	490	120	1·20	150
LCA 600 F	640	180	2·50	300
LCA 750 F	790	230	4·10	300
LCA 900 F	940	280	5·60	300

(2) Per cantilever arm for load uniformly distributed across complete arm using two fixing holes. Safety factor : 2
(3) When one fixing hole is used the recommended safe working load = 100 kgf

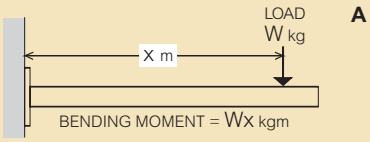
Maximum uniformly distributed loads for individual cantilever arms are given with the illustrations in this catalogue. However, should the loading not be uniform then the safe limit can be obtained by calculating the bending moment produced by the intended loads and comparing this with the maximum permissible bending moment for the relevant arm

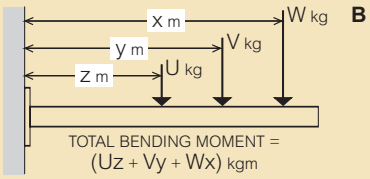
45 kgf.m for SA750 – SA755 and SA757
52 kgf.m for SA760 – SA766
95 kgf.m for SA770 –- SA776

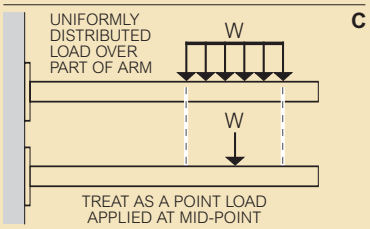
To obtain the bending moment resulting from any point load, multiply the size of the load by its distance from the inner end of the arm (see illustration A)

If several point loads exist then the total bending moment will be the sum of the individual bending moment produced by each point load (see illustration B)

If some part of the total load applied to an arm is uniformly distributed along a section of the arm only, then this part load can be treated as a point load acting at the mid-point of that section of arm to which it is applied (see illustration C)



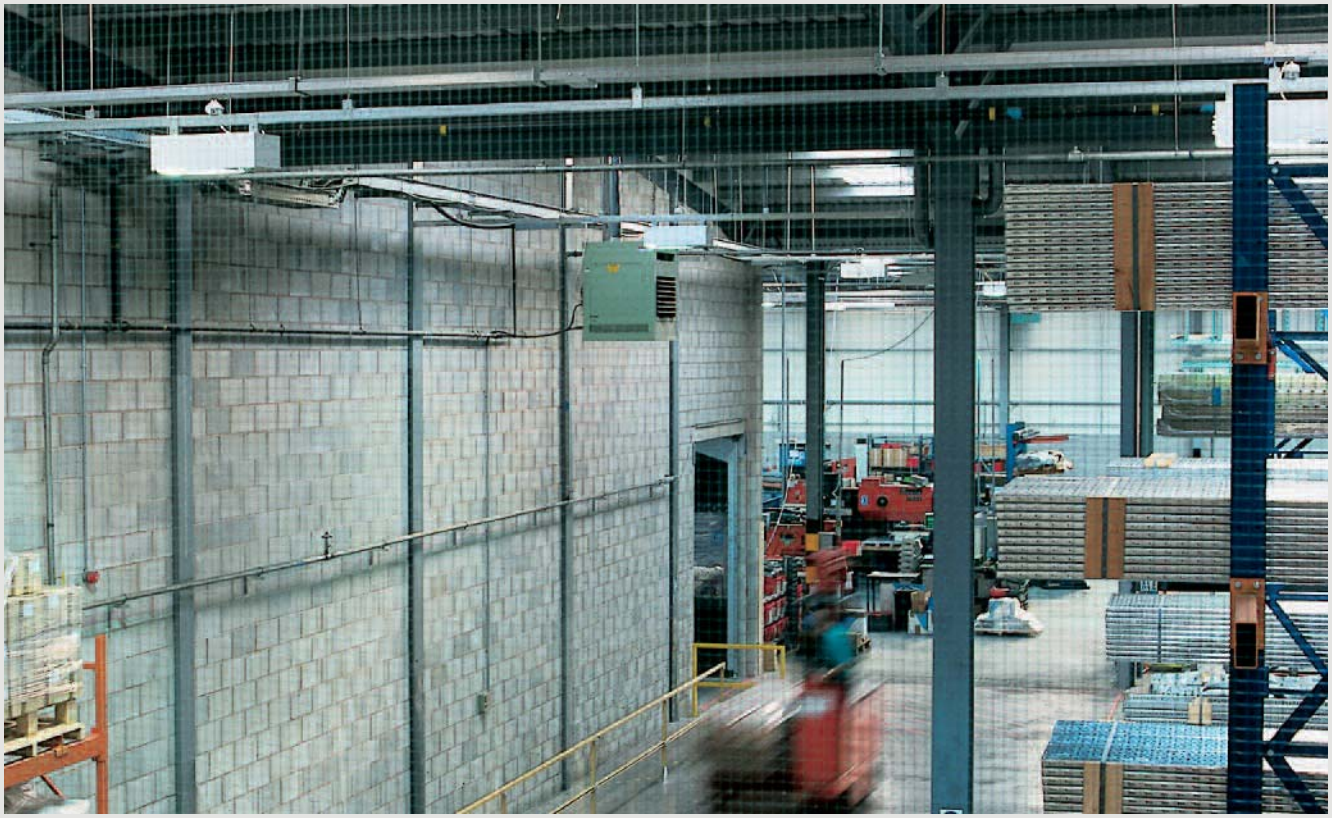




ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Metal trunking systems... distribution and lighting

Available in multiple configurations and finishes, Salamandre metal trunking systems are an established favourite in Legrand's market leading cable management portfolio.



DISTRIBUTION TRUNKING



Available in single and multi-compartment options, Salamandre distribution trunking has a variety of fixing methods for fast, safe installation... screws, tamper-proof screws and 90° turnbuckles.

LIGHTING TRUNKING



High quality galvanised steel and painted steel lighting trunking available in a diverse selection of sizes... all of which can be installed quickly and with the minimum amount of hassle.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
standard and lighting

| STANDARD | | |

Salamandre® distribution trunking
order information – standard and lighting

■ Trunking size codes

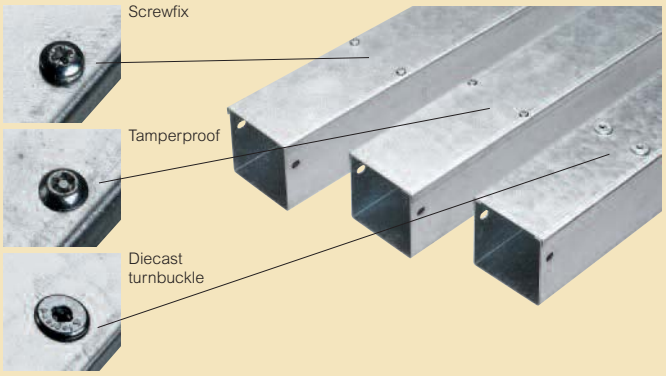
Size (mm) width x depth	Standard trunking size code
50 x 50	22
75 x 50	32
75 x 75	33
100 x 50	42
100 x 75	43
100 x 100	44
150 x 50	62
150 x 75	63
150 x 100	64
150 x 150	66
225 x 75	93
225 x 100	94
225 x 150	96
225 x 225	99
300 x 100	124
300 x 150	126
300 x 300	1212

In the catalogue, numbers shown on p. 304-310 replace Z with the relevant standard trunking size code

■ Lid fixings

Standard trunking is available with a selection of lid fixings. The chart below shows the relevant prefix for each type
Lighting trunking lids are purchased separately and simply clip into place

Lid fixing	Standard
Diecast turnbuckle	MG
Screwfix (M5 x 6 mm)	MS
Tamperproof screwfix (M5 x 12 TORX®(1))	MST



■ Finishes

Finishes	Standard	Lighting
Pre-galvanised steel BS EN 10327 grade DX51D	● eg : MG33	● eg : LT2612
Powder coated BS 4800 00A05	● eg : MG33**P**	● eg : WLT2512

Lighting trunking is supplied as standard in a white RAL 9003 epoxy powder coated finish. Other colours available on request, contact us on 0845 605 4333

(1) TORX is a registered trademark of Camcat/Textron Inc.

■ Compartment options

Standard trunking is available in multi-compartment options
Trunking and fittings are supplied with equal compartments as standard. For unequal compartments, details must be supplied at the time of order
3 compartment is available in width code 6 and above

Standard straight lengths
For 1 compartment trunking there is no need to change the Cat. Nos. Example : MG33
For 2 compartment trunking, add **2C** to the end of the Cat. No. Example : MG33**2C**
For 3 compartment trunking, add **3C** to the end of the Cat. No. Example : MG63**2C**

Standard fittings
For 1 compartment trunking there is no need to change the Cat. No. Example : MG33AGL
For 2 compartment trunking, add **2C** to the end of the Cat. No. Example : MG33AGL**2C**
For 3 compartment trunking, add **3C** to the end of the Cat. No. Example : MG63AGL**3C**

■ Lighting trunking

Lighting trunking lids and couplers are ordered separately

■ Distribution trunking classification

Legrand steel distribution trunking was previously made to BS 4678 Part 1. This is now an obsolescent standard and has been replaced by the latest BS European standard BS EN 50085-2-1

Classification to BS EN 50085-1 2005 and BS EN 50085-2-1 2006

Clause 6.2 According to resistance to impact for installation and application : impact 2·0J

Clause 6.3 According to temperatures given in tables 1, 2 and 3 :

	Min	Max
1. Storage and transport	– 25	–
2. Installation	– 15	–
3. Application	–	+ 60

Clause 6.4 According to resistance to flame propagation : non-flame propagating (MG unpainted)

Clause 6.5 According to electrical continuity characteristic : CTS with electrical continuity (maximum linear impedance 1·0 milliohmas per metre)

Clause 6.6 According to electrical insulating characteristic : CTS without electrical insulating characteristic

Clause 6.7 According to degree of protection provided by enclosure according to BS EN 60529 : 1991 : IP 30

Clause 6.9 According to system access cover retention : CTS access cover which can only be opened with a tool

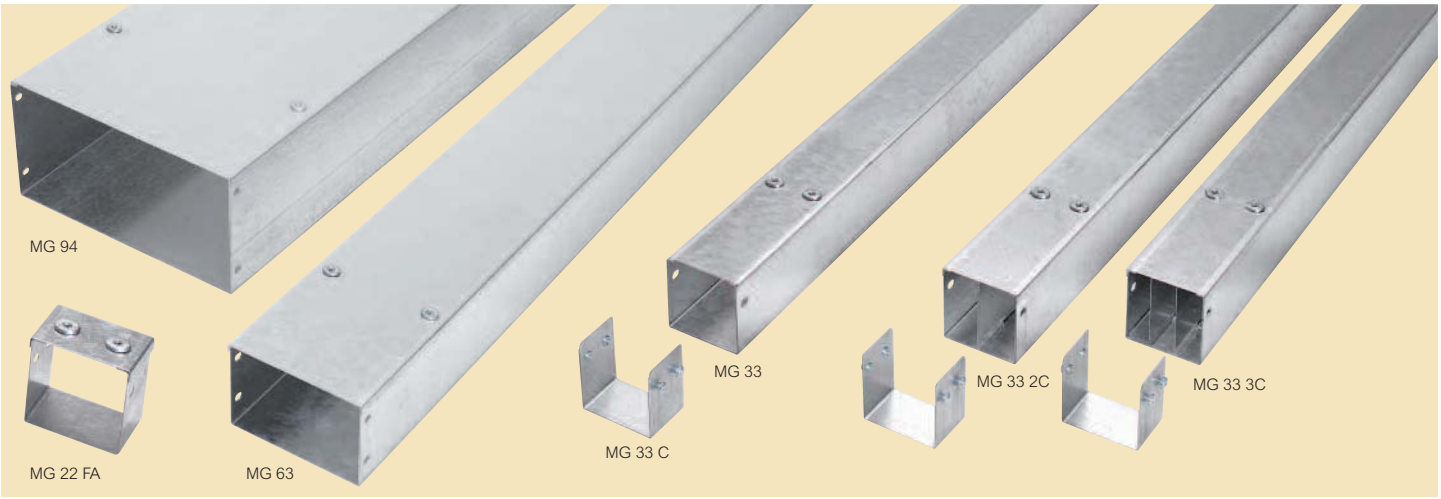
Clause 6.10 According to electrically protective separation : CTS without internal protective partition

Clause 6.101 According to position when surface mounted : CTS surface mounted on wall
CTS surface mounted on ceiling
(CTS mounted away from the wall or ceiling using fixing devices
Declare MG cover mounted upwards 2·0 metre hanger centres)

Clause 6.103 According to the functions provided : Type 2 CTS (distribution)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
standard trunking



Selection chart (p. 304-305)
Dimensions and technical information (p. 311-312)

Trunking lengths – 3 m

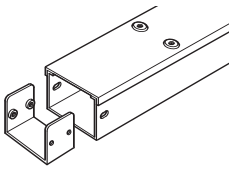
Each trunking length is supplied with connector, lid and lid fixings
Supplied as standard with diecast turnbuckle fixings. For screwfix or tamperproof screwfix, replace MG with MS or MST. For more details (see order information p. 306)

Single compartment

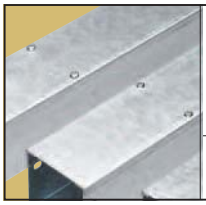
Also available in multi-compartment options (see p. 306)

All dimensions (mm)

Pack	Cat. Nos.	
1	MG22	50 x 50
1	MG32	75 x 50
1	MG33	75 x 75
1	MG42	100 x 50
1	MG43	100 x 75
1	MG44	100 x 100
1	MG62	150 x 50
1	MG63	150 x 75
1	MG64	150 x 100
1	MG66	150 x 150
1	MG93	225 x 75
1	MG94	225 x 100
1	MG96	225 x 150
1	MG99	225 x 225
1	MG124	300 x 100
1	MG126	300 x 150
1	MG1212	300 x 300



Key : Z = trunking size code
Replace Z with the relevant code (see p. 306)



MG can be replaced by MS or MST for screwfix lids or tamperproof screwfix lids
Also available in multi-compartment options

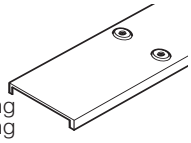
(see p. 306)

Spare lids

Spare turnbuckle lids

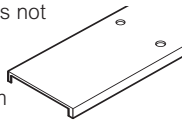
Diecast turnbuckles included
Lids 50 mm to 150 mm wide : 6 per 3 m lid
Lids 225 mm and 300 mm wide : 4 per 1·5 m lid

Pack	Cat. Nos.	
1	MG2LID	50 mm wide x 3 m long
1	MG3LID	75 mm wide x 3 m long
1	MG4LID	100 mm wide x 3 m long
1	MG6LID	150 mm wide x 3 m long
1	MG9LID	225 mm wide x 1·5 m long
1	MG12LID	300 mm wide x 1·5 m long



Spare screwfix and tamperproof screwfix lids

Screws and retaining clips not included (see below)
Lids up to 150 mm wide : 6 per 3 m lid
Lids 225 mm and 300 mm wide : 4 per 1·5 m lid



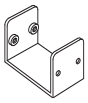
Replace MG with MS (screwfix) or MST (tamperproof screwfix) in the Cat. Nos. above

Accessories and ancillaries

Trunking connectors

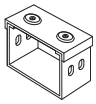
Only available in pre-galvanised finish

Pack	Cat. Nos.	
1	MG Z C	Supplied with connector screws



Fitting to fitting adaptors

Pack	Cat. Nos.	
1	MG Z FA	Available up to 150 mm x 150 mm Supplied with lid and lid fixings



Fastenings

Pack	Cat. Nos.	
100	ETCLIP	Retaining clip



Pack	Cat. Nos.	
10	DTB1	Diecast turnbuckle for lid width up to 150 mm
10	DTB2	Diecast turnbuckle for lid width 225 mm and above



Pack	Cat. Nos.	
100	T201	Screwfix (M5)



Pack	Cat. Nos.	
100	T204	Tamperproof screwfix (M5 TORX®(1))



Pack	Cat. Nos.	
1	TX25	Screwdriver for tamperproof screwfix

(1) TORX is a registered trademark of Camcat/Textron Inc.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
standard trunking (continued)


MG 33 BSL


MG 33 ASL


MG 33 CSL


MG 33 CL


MG 33 BGL


MG 33 AL


MG 33 AGL


MG 33 CGL

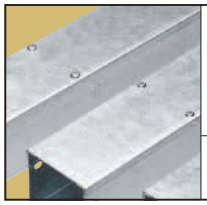
Selection chart (p. 304-305)
Dimensions and technical information (p. 312-313)

Pack	Cat. Nos.	Fittings
		90° bends
		All 90° bends are supplied with lid, lid fixings and bend to trunking fastenings
		Top lid 90° bends – gusset
1	MG Z AGL	1 compartment
1	MG Z AGL2C	2 compartment
1	MG Z AGL3C	3 compartment
		Top lid 90° bends – square
1	MG Z ASL	1 compartment
1	MG Z ASL2C	2 compartment
1	MG Z ASL3C	3 compartment
		Inside lid 90° bends – gusset
1	MG Z BGL	1 compartment
1	MG Z BGL2C	2 compartment
1	MG Z BGL3C	3 compartment
		Inside lid 90° bends – square
1	MG Z BSL	1 compartment
1	MG Z BSL2C	2 compartment
1	MG Z BSL3C	3 compartment
		Outside lid 90° bends – gusset
1	MG Z CGL	1 compartment
1	MG Z CGL2C	2 compartment
1	MG Z CGL3C	3 compartment
		Outside lid 90° bends – square
1	MG Z CSL	1 compartment
1	MG Z CSL2C	2 compartment
1	MG Z CSL3C	3 compartment

Pack	Cat. Nos.	Fittings (continued)
		45° bends
		All 45° bends are supplied with lid, lid fixings and bend to trunking fastenings
		Top lid 45° bends
1	MG Z AL	1 compartment
1	MG Z AL2C	2 compartment
1	MG Z AL3C	3 compartment
		Inside lid 45° bends
1	MG Z BL	1 compartment
1	MG Z BL2C	2 compartment
1	MG Z BL3C	3 compartment
		Outside lid 45° bends
1	MG Z CL	1 compartment
1	MG Z CL2C	2 compartment
1	MG Z CL3C	3 compartment

Note : 3 compartment trunking is available in size codes 62 (150 mm) and above. Smaller sizes can be made to special order

Key : Z = trunking size code
Replace Z with the relevant code (see p. 306)



MG can be replaced by MS or MST for screwfix lids or tamperproof screwfix lids
Also available in multi-compartment options

(see p. 306)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
standard trunking (continued)


MG 33 AGT


MG 62 OST 3C


MG 33 CGT


MG 33 BGT


MG 33 AST


MG 62 OSX 3C


MG 33 AGL

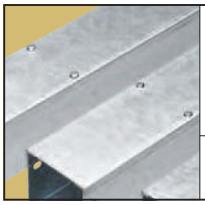
Selection chart (p. 304-305)
Dimensions and technical information (p. 313-314)

Pack	Cat. Nos.	Fittings (continued)
		Tees
		All top lid, inside lid and outside lid tees are supplied with lid, lid fixings and tee to trunking fastenings Offset tees are supplied with lids and lid fixings only Inside and outside lid tees – square, available by special order Contact us on 0845 605 4333
		Top lid tees – gusset
1	MG Z AGT	1 compartment
1	MG Z AGT2C	2 compartment
1	MG Z AGT3C	3 compartment
		Top lid tees – square
1	MG Z AST	1 compartment
1	MG Z AST2C	2 compartment
1	MG Z AST3C	3 compartment
		Inside lid tees – gusset
1	MG Z BGT	1 compartment
1	MG Z BGT2C	2 compartment
1	MG Z BGT3C	3 compartment
		Outside lid tees – gusset
1	MG Z CGT	1 compartment
1	MG Z CGT2C	2 compartment
1	MG Z CGT3C	3 compartment
		Offset tees
		1 compartment not available Connectors not supplied (see p. 307)
1	MG Z OST2C	2 compartment
1	MG Z OST3C	3 compartment

Pack	Cat. Nos.	Fittings (continued)
		Crossovers
		Supplied with lid, lid fixings and crossover to trunking fastenings
1	MG Z AGX	1 compartment
1	MG Z AGX2C	2 compartment
1	MG Z AGX3C	3 compartment
		Offset crossovers
		Supplied with lids and lid fixings only 1 compartment not available
1	MG Z OSX2C	2 compartment
1	MG Z OSX3C	3 compartment

Note : 3 compartment trunking is available in size codes 62 (150 mm) and above. Smaller sizes can be made to special order

Key : Z = trunking size code
Replace Z with the relevant code (see p. 306)

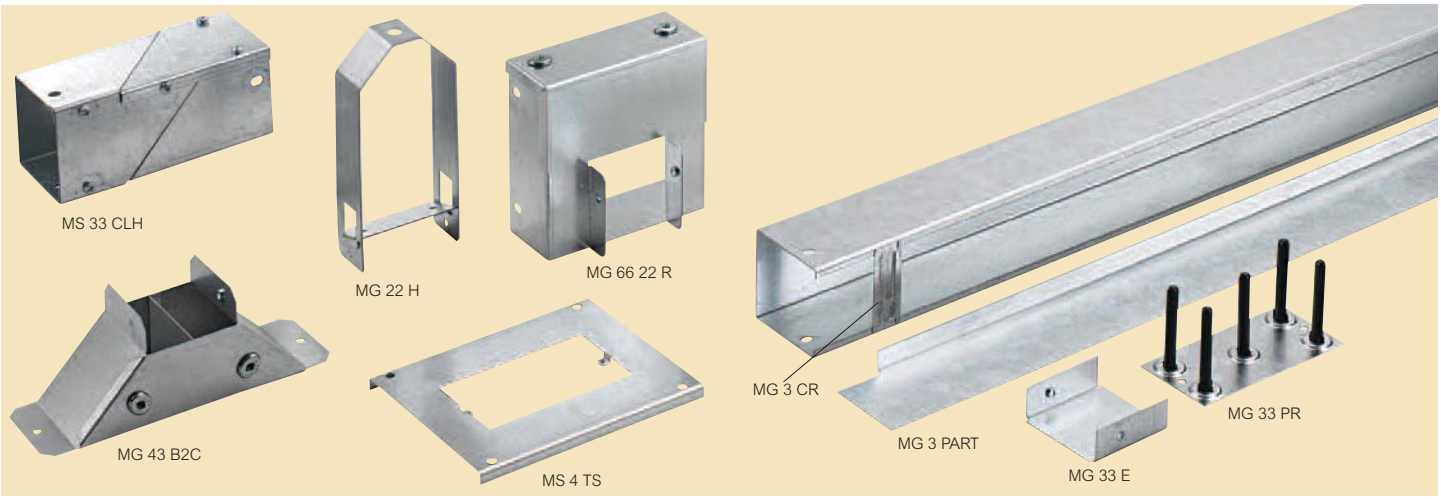


MG can be replaced by MS or MST for screwfix lids or tamperproof screwfix lids
Also available in multi-compartment options

(see p. 306)

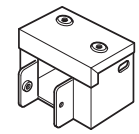
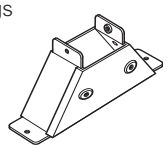
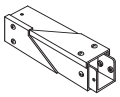
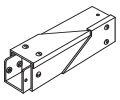
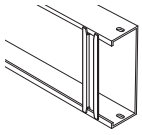
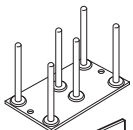
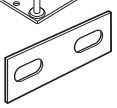
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
standard trunking



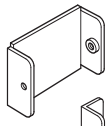
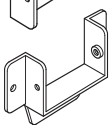
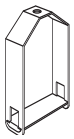
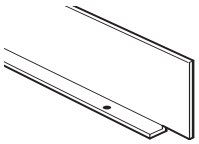
Dimensions and technical information (p. 315)

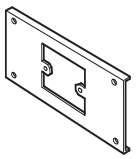
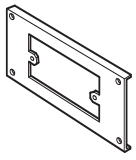
Pack	Cat. Nos.	Accessories and ancillaries
		Reducers
1	MG Z Z R	Supplied with lids, lid fixings and fastenings. The larger trunking size uses standard connector (not supplied) for joining to reducer (MG Z C see p. 307)
		Bellmouths
		Supplied with lids, lid fixings and bellmouth to trunking fastenings
1	MG Z B	1 compartment
1	MG Z B2C	2 compartment
1	MG Z B3C	3 compartment
		Change faces
		Supplied with lids, lid fixings and one trunking connector fitted Not available in multi-compartment
		Only available in screwfix or tamperproof
1	MS Z CLH	Left hand
1	MS Z CRH	Right hand
		Cable retainers
10	MG2CR	50 mm wide
10	MG3CR	75 mm wide
10	MG4CR	100 mm wide
10	MG6CR	150 mm wide
10	MG9CR	225 mm wide
10	MG12CR	300 mm wide
		Pin racks
1	MG Z PR	1 compartment Multi-compartment trunking order per compartment
		Earth link
10	EL	Fastenings not supplied

Key : Z = trunking size code
Replace Z with the relevant code (see p. 306)
Note:
For reducers, insert the main trunking size code followed by the reduced trunking size code
For stirrup hangers (where shown), insert ONLY THE SECOND NUMBER from the relevant trunking size code

Pack	Cat. Nos.	Accessories and ancillaries (continued)
		Stop ends
1	MG Z E	Supplied with fastenings
		Flanges
1	MG Z F	Supplied with flange to trunking fastenings
		Stirrup hangers
		Hole for M10 rod
1	MG22H	50 mm wide. 50 mm max. depth
1	MG33H	75 mm wide. 75 mm max. depth
1	MG44H	100 mm wide. 100 mm max. depth
1	MG66H	150 mm wide. 150 mm max. depth
1	MG9 Z H	225 mm wide
1	MG12 Z H	300 mm wide
		Loose partitions – 3 m
1	MG2PART	50 mm deep
1	MG3PART	75 mm deep
1	MG4PART	100 mm deep
1	MG6PART	150 mm deep
1	MG9PART	225 mm deep
1	MG12PART	300 mm deep
		PVC edging strip
		For fitting on to top edge of partition
1	T206	2 m strip
		Socket plates
		For turnbuckle trunking use prefix MG__ Requires fixing bars for MG (see p. 315)
		Single
1	MS4SG	100 mm wide
1	MS6SG	150 mm wide
1	MS9SG	225 mm wide
1	MS12SG	300 mm wide
		Twin
1	MS4TS	100 mm wide
1	MS6TS	150 mm wide
1	MS9TS	225 mm wide
1	MS12TS	300 mm wide

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Cable trunking capacity guide

For each size of cable, multiply the number to be installed by the common factor. Add together the results of these calculations for all cable sizes. The correct trunking size must have a capacity factor equal to or greater than this total

Example :

24 x 16·0 mm² stranded ..... 24 x 47·8 = 1147·2
20 x 2·5 mm² solid ..... 20 x 11·9 = 238·0

1385·2

Minimum trunking size required in this example = 75 x 50 (trunking capacity factor 1555)

Cable sizes and factors

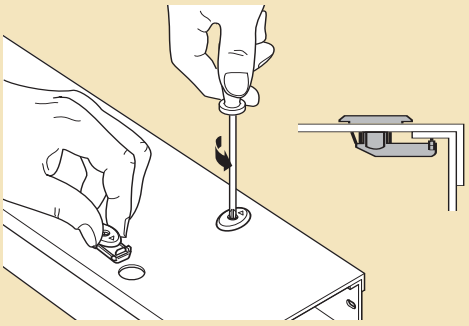
Size (mm²) (nom.)	Common cable factor
Solid	
1·5	8·0
2·5	11·9
Stranded	
1·5	8·6
2·5	12·6
4·0	16·6
6·0	21·2
10·0	35·3
16·0	47·8
25·0	73·9
35·0	93·3
50·0	128·7
70·0	167·4
95·0	229·7
120·0	277·6
150·0	343·1
240·0	552·0

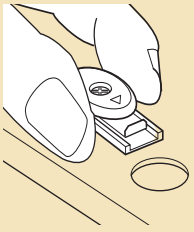
Trunking sizes and capacity factors

Size (mm)	Trunking capacity factor
50 x 50	1037
75 x 50	1555
75 x 75	2371
100 x 50	2091
100 x 75	3189
100 x 100	4252
150 x 50	3091
150 x 75	4742
150 x 100	6394
150 x 150	9697
225 x 75	7114
225 x 100	9298
225 x 150	14652
225 x 225	21766
300 x 100	12788
300 x 150	19447
300 x 300	38000

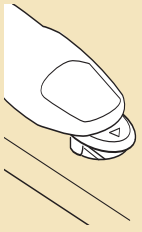
■ Lid fixing details

Diecast turnbuckle
A steel fixing encased within a smooth diecast turnbuckle with excellent earth bonding properties
Quick, safe, easy to install and time saving
Manufactured from zinc alloy ZL3 and diecast

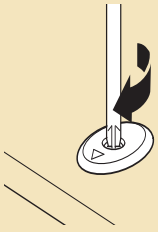




Drill a 14·1 mm hole in lid to accept turnbuckle



Press turnbuckle into lid and installation is complete

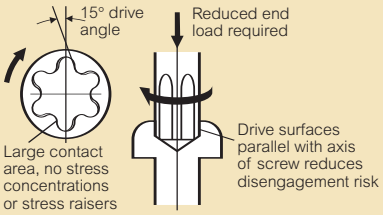


Simply turn 90° clockwise to lock (or anticlockwise to release), using a No.2 cross head screwdriver

Screw fixing
Screws are M5 x 6 mm posidrive, pan head with earth nib on underside of head and a rounded end to prevent cable damage
Manufactured to BS 4183 and BS 3643 from low carbon mild steel, zinc plated and clear passivated

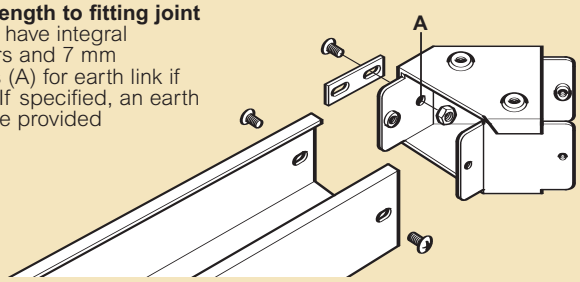
Tamperproof screw fixing
An M5 x 12 mm pan head screw with the efficient high torque TORX®(1) recess
Tamperproof screw fix lids are supplied fitted with mild steel plated screws with TORX®(1) screws bagged separately for fitting when installation is complete
- Torque transmitted positively and accurately
- Large contact area - reduces wear
- Parallel sides - holds screwdriver captive and virtually eliminates slippage

Manufactured to BS 4183 and BS 3643 from low carbon mild steel, zinc plated and clear passivated
A special TORX®(1) screwdriver is needed (see p. 307)
(1) TORX is a registered trademark of Camcat/Textron Inc.

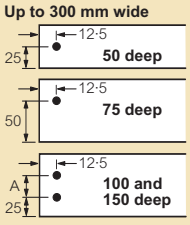


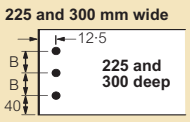
■ Coupling details

Straight length to fitting joint
All fittings have integral connectors and 7 mm knockouts (A) for earth link if required. If specified, an earth link can be provided



Cut lengths
Drill clearance holes in cut length for M5 pan head screws in positions shown below





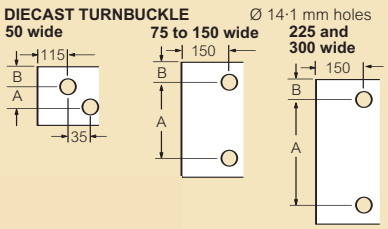
All dimensions in mm (nominal)

Trunking depth	A
100	51
150	101

Trunking depth	B
225	72
300	110

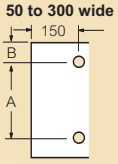
■ Hole positions for lids cut to length

DIECAST TURNBUCKLE Ø 14·1 mm holes



Trunking width	A	B
50	18	17·50
75	43	18·00
100	68	18·00
150	118	17·75
225	193	18·25
300	268	18·75

SCREW FIXED
Ø 7·2 mm holes



All dimensions in mm (nominal)

Trunking width	A	B
50	40	6·50
75	65	7·25
100	90	7·25
150	140	7·50
225	215	5·00
300	290	5·00

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

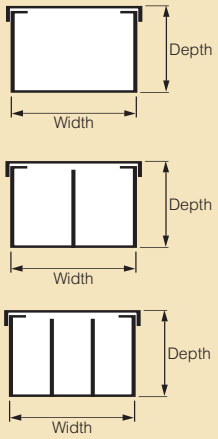
■ Standard trunking lengths

Each trunking length is supplied with connector, lid and lid fixings

Screwfix lids are supplied fitted with pozi pan head BZP screws as standard

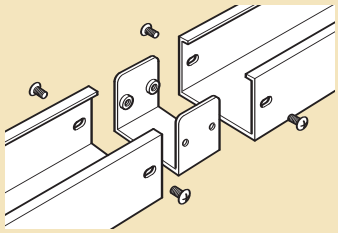
Tamperproof screw fix lids are supplied fitted with mild steel plated screws with TORX®(1) screws bagged separately for fitting when installation is complete

For trunking sizes and size codes (see p. 306)



Trunking and fittings are supplied with equal compartments as standard. For unequal compartments, details must be supplied at time of order for this non-standard product

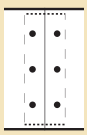
■ Trunking connector




50 mm deep
4 screws per connector


75 mm deep (up to 150 mm wide)
4 screws per connector


75 (225 mm and 300 mm wide)
100 mm and 150 mm deep
8 screws per connector


225 mm and 300 mm deep
12 screws per connector

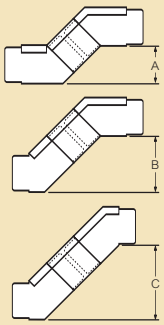
(1) TORX is a registered trademark of Camcat/Textron Inc.

■ Fitting to fitting adaptor

Various offsets can be achieved using two standard 45° bends

Simply connect an inside lid bend to an outside lid bend using a fitting to fitting adaptor (see p. 306), in one of the three configurations

Available on up to 150 x 150 mm trunking only

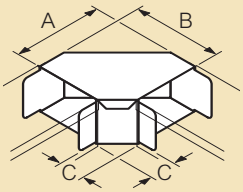


Trunking depth	A	B	C
50	50	75	100
75	60	90	110
100	70	95	115
150	85	105	130

All dimensions in mm (nominal)

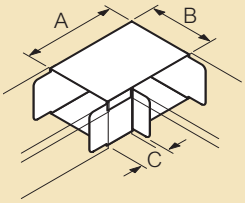
■ 90° bends

Top lid 90° bend – gusset



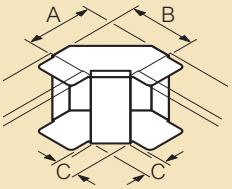
Width	A	B	C
50	65	65	25
75	90	90	25
100	115	115	25
150	165	165	25
225	251	251	25
300	326	326	25

Top lid 90° bend – square



Width	A	B	C
50	85	50	35
75	110	75	35
100	135	100	35
150	185	150	35
225	275	225	35
300	350	300	35

Inside lid 90° bend – gusset



Up to 150 wide Depth	A	B	C
50	95	95	25
75	120	120	25
100	145	145	25
150	195	195	25

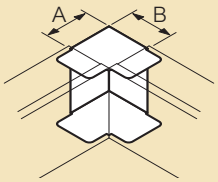
225 and 300 wide Depth	A	B	C
50	96	106	25
75	121	131	25
100	146	156	25
150	196	206	25
225	271	281	25
300	346	356	25

All dimensions in mm (nominal)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

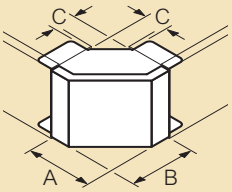
■ 90° bends continued

Inside lid 90° bend – square



Depth	A	B
50	50	50
75	75	75
100	100	100
150	150	150
225	225	225
300	300	300

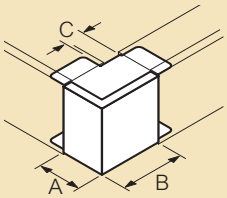
Outside lid 90° bend – gusset



Up to 150 wide Depth	A	B	C
50	75	75	25
75	100	100	25
100	125	125	25
150	175	175	25

225 and 300 wide Depth	A	B	C
50	75	86	25
75	100	111	25
100	125	136	25
150	175	186	25
225	250	261	25
300	325	336	25

Outside lid 90° bend – square



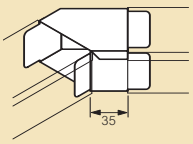
Up to 150 wide Depth	A	B	C
50	59	75	25
75	75	100	25
100	100	125	25
150	150	175	25

225 and 300 wide Depth	A	B	C
50	50	74	25
75	75	99	25
100	100	124	25
150	150	174	25
225	225	249	25
300	300	324	25

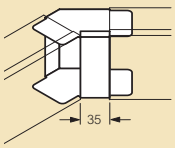
Width and depth refer to trunking sizes
Dimensions are identical for single and multi-compartment
All dimensions in mm (nominal)

■ 45° bends

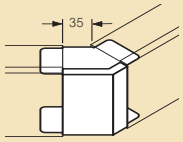
Top lid 45° bend



Inside lid 45° bend



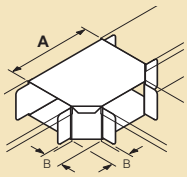
Outside lid 45° bend



Dimensions are identical for single and multi-compartment
All dimensions in mm (nominal)

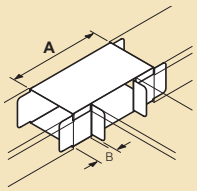
■ Tees

Top lid tee – gusset



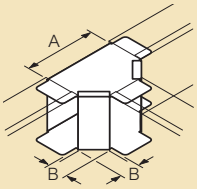
Width	A	B
50	100	25
75	125	25
100	150	25
150	200	25
225	286	25
300	361	25

Inside lid tee – square



Width	A	B
50	120	35
75	145	35
100	170	35
150	220	35
225	295	35
300	375	35

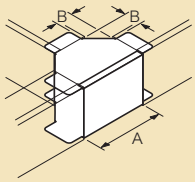
Inside lid tee – gusset



Up to 150 wide Depth	A	B
50	120	35
75	145	35
100	170	35
150	220	35

225 and 300 wide Depth	A	B
50	162	45
75	187	45
100	212	45
150	262	45
225	337	45
300	412	45

Outside lid tee – gusset



Up to 150 wide Depth	A	B
50	100	25
75	125	25
100	150	25
150	200	25

225 and 300 wide Depth	A	B
50	111	25
75	136	25
100	161	25
150	211	25
225	286	25
300	361	25

All dimensions in mm (nominal)

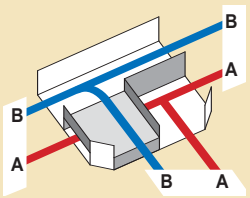
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Compartment tees

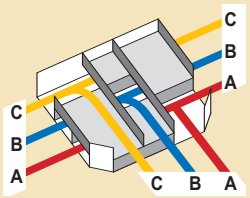
Approximately 50% of cable capacity is lost when using multi-compartment tees

Examples :

2 compartment

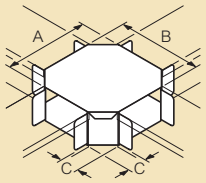


3 compartment



■ Crossovers

Crossover



Width	A	B	C
50	100	100	25
75	125	125	25
100	150	150	25
150	200	200	25
225	275	275	25
300	350	350	25

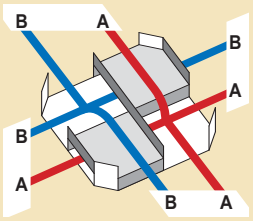
Dimensions are identical for single and multi-compartment
All dimensions in mm (nominal)

■ Multi-compartment crossovers

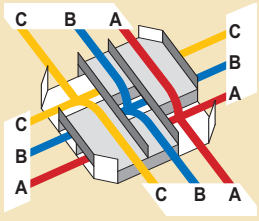
Approximately 50% of cable capacity is lost when using multi-compartment crossovers

Examples :

2 compartment crossover

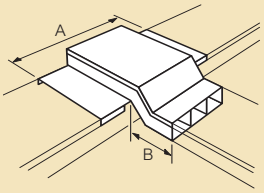


3 compartment crossover



■ Offset tees and crossovers

Offset tee

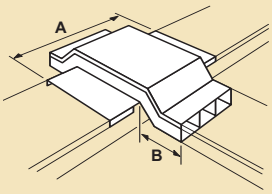


Note : There is no loss of cable capacity when using offset tees and crossovers

Width and branch of tee	A
50	150
75	175
100	200
150	250
225	325
300	400

Depth of through trunking	B
50	130
75	160
100	196
150	266
225	373
300	478

Offset crossover



Width of crossover	A
50	150
75	175
100	200
150	250
225	325
300	400

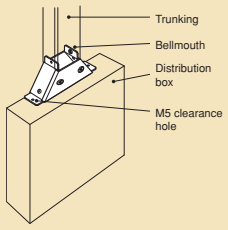
Depth of through trunking	B
50	130
75	160
100	196
150	266
225	373
300	478

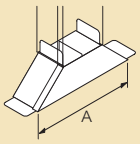
Width and Depth refer to trunking sizes
Dimensions are identical for single and multi-compartment
All dimensions in mm (nominal)

Each offset tee is supplied complete with fixing bracket and M5 posi pan head screw and nut

Offset tees can be inverted to allow cables to branch off on opposite sides of trunking

■ Bellmouths



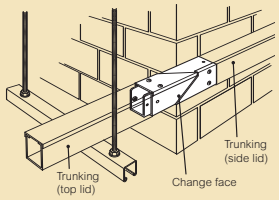


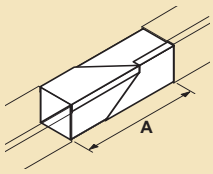
Width	A
50	147
75	172
100	197
150	247
225	322
300	397

Width refers to trunking sizes
Dimensions are identical for single and multi-compartment
All dimensions in mm (nominal)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Change faces





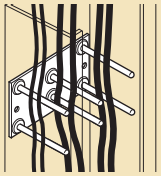
Note: no change face multi-compartment trunking available

Width	A
50	200
75	225
100	250
150	300
225	375
300	450

Width refers to trunking sizes
All dimensions in mm (nominal)

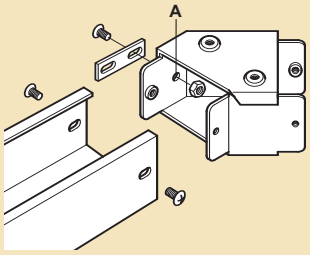
■ Pin racks

Available for trunking up to 150 mm wide
Supplied in packs of 10



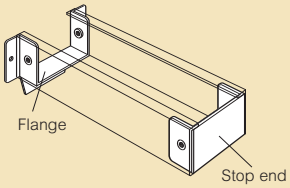
Pin rack

■ Earth link

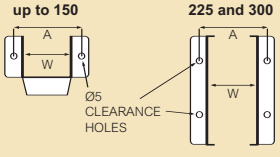


All fittings have 7 mm knockouts (A) for fixing an earth link
An M5 screw and nut are needed for fixing the earth link

■ Stop ends and flanges



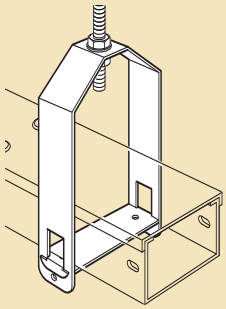
Hole position for flanges Trunking width	A
Up to 150	W + 22·5
225 and 300	W + 26·0

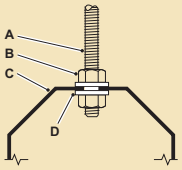


All dimensions in mm (nominal)

supplied in pairs

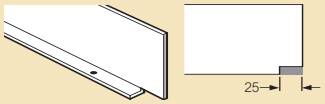
■ Stirrup hangers





A M10 threaded rod
B M10 nut
C Hanger
D Form A flat washers

■ Loose separators

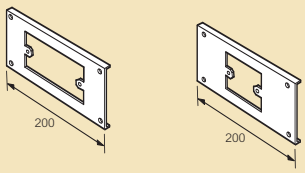


All dimensions in mm (nominal)

Fastenings not supplied
Pop rivet or spot weld on site to suit

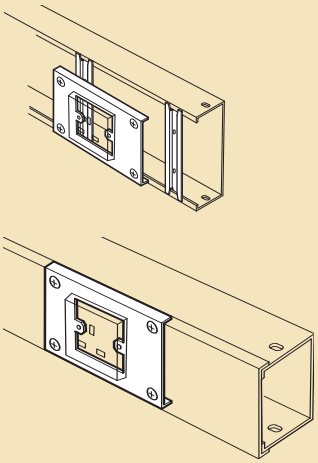
■ Socket plates

Socket plate fixing for screwfix and tamperproof trunking is fixed by retaining clips and screws (see p. 307)



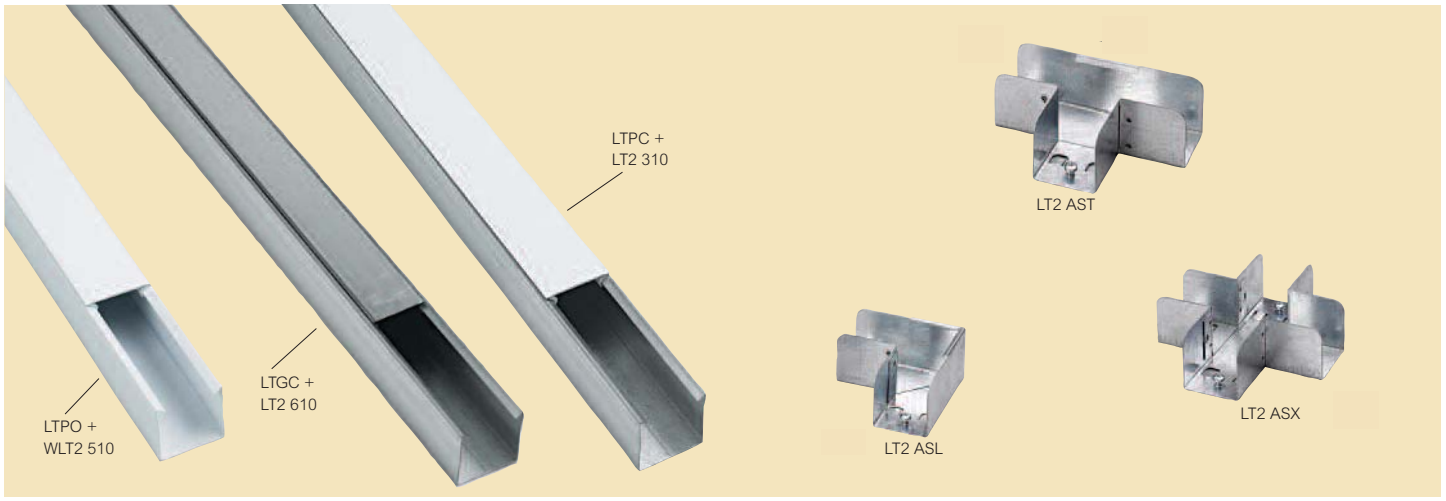
All dimensions in mm (nominal)

Socket plate fixing for turnbuckle trunking is screwed to retaining bar



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

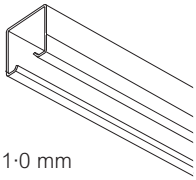
Salamandre® distribution trunking
lighting trunking and fittings



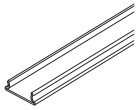
Selection chart (p. 304-305)

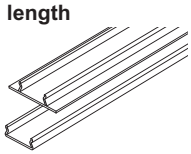
A 'clip-in' lid trunking system for fast installation
Available with a choice of 3 lids in plastic or galvanised finishes
For white powder coated finish to RAL 9003 product code starts WLT2, for pre-galvanised code starts LT2
All lighting trunking fittings have friction grip to aid quick installation

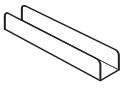
Pack	Cat. Nos.	Trunking lengths
		Lids and couplers not included
		White
		Nominal steel thickness 1·0 mm
1	WLT2 510	50 mm x 50 mm – 5 m
		Galvanised
		Nominal steel thickness 1·0 mm
1	LT2 310	50 mm x 50 mm – 3 m
1	LT2 410	50 mm x 50 mm – 4 m
1	LT2 510	50 mm x 50 mm – 5 m
1	LT2 610	50 mm x 50 mm – 6 m



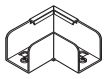
		Fittings
		All fittings have friction grip for quick installation
		Lid – galvanised 2 m length
1	LT2GC	Standard width
1	WLT2GC	Standard width – painted
		Lids – white plastic 2 m length
1	LT2PC	Standard width
		Long coupler
1	LT2C	50 mm x 50 mm

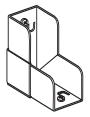


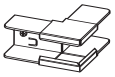


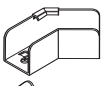


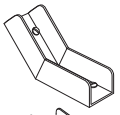
Pack	Cat. Nos.	Fittings (continued)
		Top lid 90° bends
1	LT2ASL	50 mm x 50 mm
1	WLT2ASL	50 mm x 50 mm – white
		Inside lid 90° bends
1	LT2BSL	50 mm x 50 mm
1	WLT2BSL	50 mm x 50 mm – white
		Outside lid 90° bends
1	LT2CSL	50 mm x 50 mm
1	WLT2CSL	50 mm x 50 mm – white
		Top lid 45° bends
1	LT2AL	50 mm x 50 mm
1	WLT2AL	50 mm x 50 mm – white
		Inside lid 45° bends
1	LT2BL	50 mm x 50 mm
1	WLT2BL	50 mm x 50 mm – white
		Outside lid 45° bends
1	LT2CL	50 mm x 50 mm
1	WLT2CL	50 mm x 50 mm – white
		Top lid tees
1	LT2AST	50 mm x 50 mm
1	WLT2AST	50 mm x 50 mm – white
		Inside lid tees
1	LT2BST	50 mm x 50 mm
1	WLT2BST	50 mm x 50 mm – white
		Outside lid tees
1	LT2CST	50 mm x 50 mm
1	WLT2CST	50 mm x 50 mm – white
		Crossovers
1	LT2ASX	50 mm x 50 mm
1	WLT2ASX	50 mm x 50 mm – white



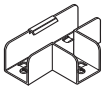


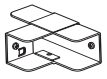


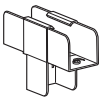


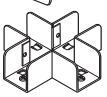






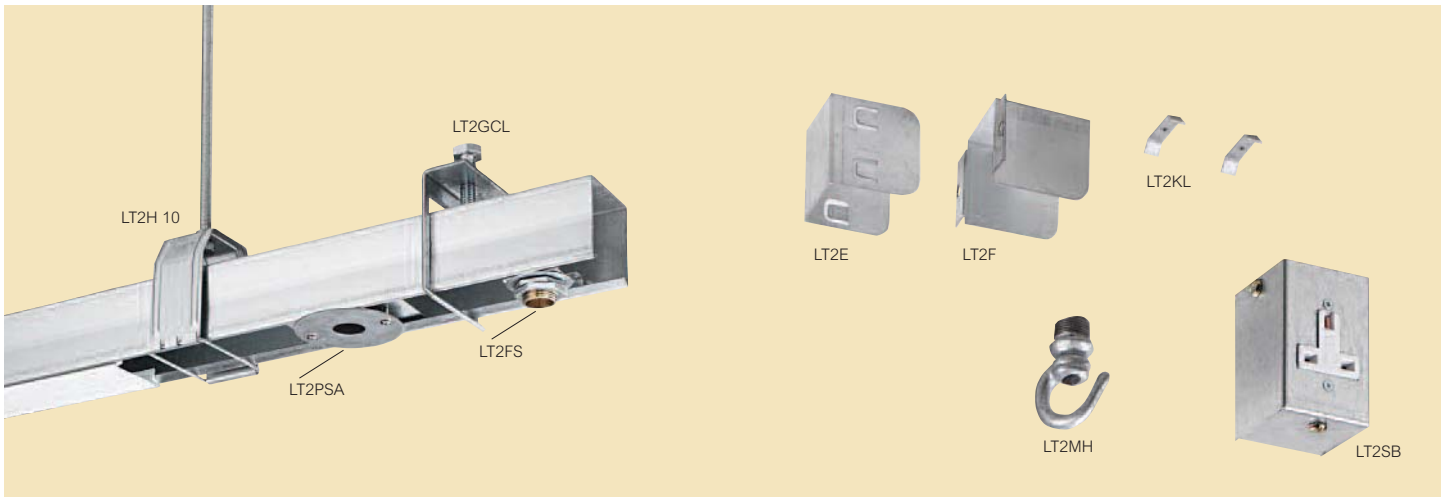






ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Salamandre® distribution trunking
lighting trunking fittings and ancillary items

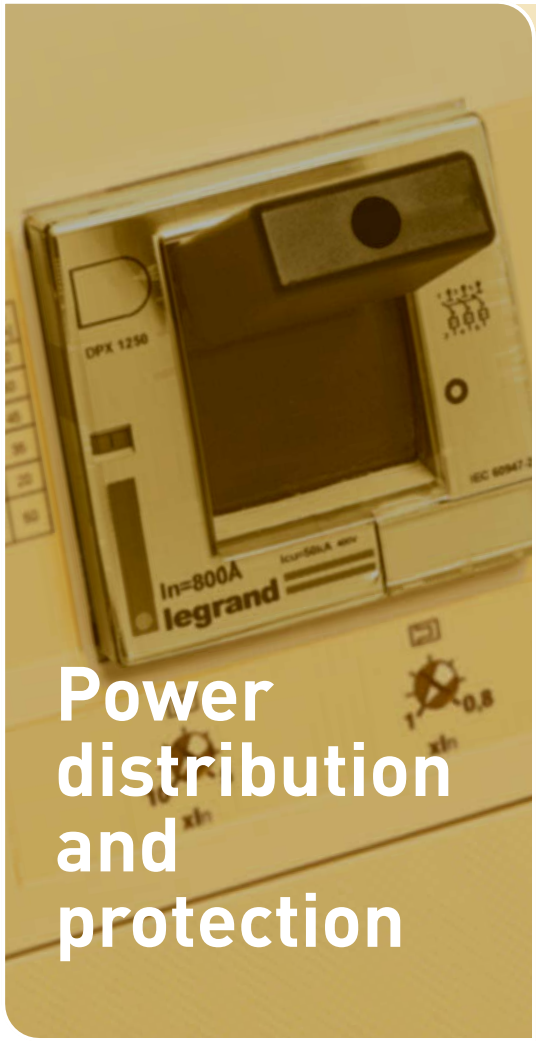


Selection chart (p. 304-305)

Pack	Cat. Nos.	Ancillary items	
		End caps	
1	LT2E WLT2E	50 mm x 50 mm 50 mm x 50 mm – white	
		Flanges	
1	LT2F WLT2F	50 mm x 50 mm 50 mm x 50 mm – white	
		Girder clamps	
1	LT2GCL WLT2GCL	50 mm x 50 mm 50 mm x 50 mm – white	
		Stirrup hangers	
1	LT2H 10	50 mm x 50 mm, 10 mm hole	
1	LT2H 20	50 mm x 50 mm, 20 mm hole	
1	WLT2H 10 WLT2H 20	50 mm x 50 mm – white, 10 mm hole 50 mm x 50 mm – white, 20 mm hole	
10	LT2FS	**Suspension unit**	
10	LT2PSA	**Pull switch adaptor**	

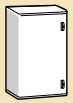
Pack	Cat. Nos.	Ancillary items (continued)	
10	LT2CR	**Cable retainer**	
10	LT2KL	**Klik adaptor**	
1	LT2MH	**Male screwed hook**	
		Socket box	
		Supplied complete with socket	
1	LT2SB	13 Amp standard	
1	LT2NS	13 Amp non-standard	
		Non-standard 13 Amp plug	
10	CO104	Single pole	

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Power distribution and protection

Panel boards


P. 323 Triple pole panel boards


P. 324 Panel board accessories

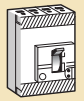

P. 351 Dimensions

MCCB protection and control

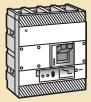

P. 326 DPX selection chart


P. 328 DPX 125


P. 329 DPX 250 ER


P. 330 DPX 250


P. 331 DPX 630


P. 332 DPX 1 250


P. 332 Control and signalling auxiliaries

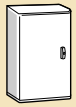

P. 333 Technical characteristics and curves

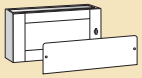

P. 339 Selectivity table

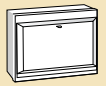

P. 341 Dimensions

Distribution boards, Plexo boxes and terminal shield boxes


P. 346 Type B distribution boards selection chart


P. 348 Type B distribution boards


P. 349 Type B distribution board accessories


P. 350 Type A distribution boards


P. 352 Dimensions


P. 350 Plexo boxes IP 55 - IK 08

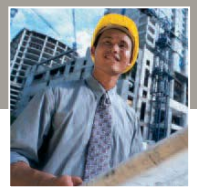
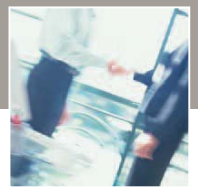

P. 350 Terminal shield boxes IP 30 - IK 05


P. 353 Dimensions

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Power and distribution... enclosures and MCCBs

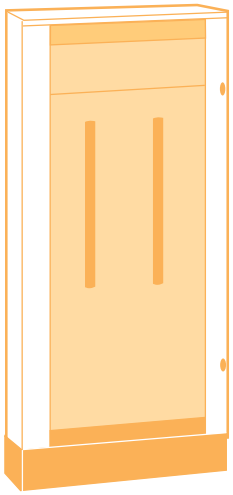
Throughout Europe, Legrand's reputation for developing and manufacturing comprehensive power and distribution systems for large and small commercial installations is second to none. From the rugged enclosures to the quality components within, the systems are at the forefront of innovation.



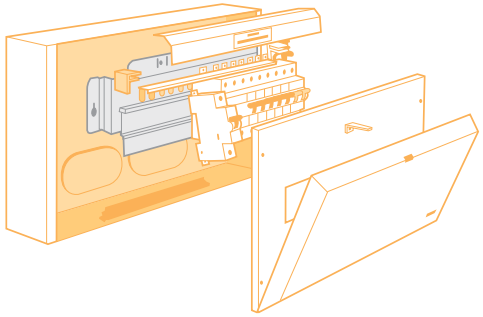
PANEL BOARDS

High system reliability and uptime is assured by the use of a fully encased busbar design with an ASTA certified short time rating.



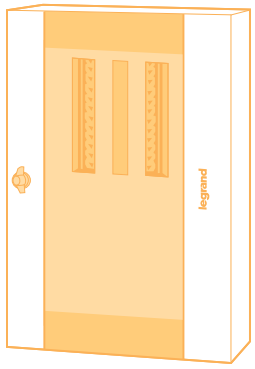
TYPE A DISTRIBUTION BOARDS

Legrand's robust type A distribution boards have been designed for optimum safety whilst still remaining remarkably easy to install.



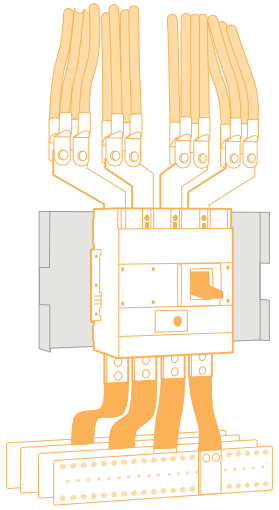
TYPE B DISTRIBUTION BOARDS

Choose from standard or flexible boards that allow you to mix 1 to 4 pole devices in a variety of configurations, creating systems tailored to your exact requirements.



DPX MCCB PROTECTION

Grouped into 5 frame sizes from 16 to 800 A with breaking capacities between 16 and 70 kA, DPX MCCBs will meet the requirements of the most demanding installations.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Low maintenance, high performance

Legrand's range of robust panel boards offers some unique innovations, including our latest ASTA approved, fully shrouded busbars that are totally encapsulated and require mimimal maintenance.



FEATURES

- Innovative busbars provide generous cabling space within compact enclosures
- 50 kA unconditional rating pure copper busbar allows sufficient time for large breakers to work correctly with no thermal stresses

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

panel boards
up to 800 A incomer, triple pole
outgoing MCCB up to 125 A



6025 03

Dimensions (p. 351)

Conform to BS EN 60439-1
IP 40 - IK 08 (with door)
RAL 7035
Busbar rating : 400 A/800 A
125 A frame size outgoing - 25 mm centres
Equipped with solid doors
The enclosures are complete with kits to fit 3P MCCBs or trip-free switch incomers
Kits for 4P incomers are also available

Pack	Cat. Nos.	**250 A MCCB incomer/125 A outgoing**
		400 A busbar 125 A frame size outgoing - 25 mm centres
		Solid door
		No. of ways
1	6025 01	6
1	6025 02	12
1	6025 03	16

		400 A MCCB incomer/125 A outgoing
		400 A busbar 125 A frame size outgoing - 25 mm centres
		Solid door
		No. of ways
1	6025 11	6
1	6025 12	12
1	6025 13	16

		630 A/800 A MCCB incomer/125 A outgoing
		800 A busbar 125 A frame size outgoing - 25 mm centres
		Solid door
		No. of ways
1	6025 21(1)	6
1	6025 22(1)	12
1	6025 23(1)	16

(1) For these items please contact us on 0845 605 4333

panel boards
up to 800 A incomer, triple pole
outgoing MCCB up to 250 A



6025 31

Dimensions (p. 351)

Conform to BS EN 60439-1
IP 40 - IK 08 (with door)
RAL 7035
Busbar rating : 400 A/800 A
250 ER frame size outgoing - 30 mm centres
Equipped with solid doors
The enclosures are complete with kits to fit 3P MCCBs or trip-free switch incomers
Kits for 4P incomers are also available

Pack	Cat. Nos.	**400 A MCCB incomer/250 A outgoing**
		400 A busbar 250 ER frame size outgoing - 30 mm centres
		Solid door
		No. of ways
1	6025 31(1)	6
1	6025 32(1)	12
1	6025 33(1)	16

		630 A/800 A MCCB incomer/250 A outgoing
		800 A busbar 250 ER frame size outgoing - 30 mm centres
		Solid door
		No. of ways
1	6025 41(1)	6
1	6025 42(1)	12
1	6025 43(1)	16



Rating	**Incoming MCCBs**	**Outgoing MCCBs**
	Page	**Page**
125 A		**328**
250 A	**330**	**329**
400 A	**331**	
630 A	**331**	
800 A	**332**	

(1) For these items please contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

panel board accessories



6026 25



6026 81



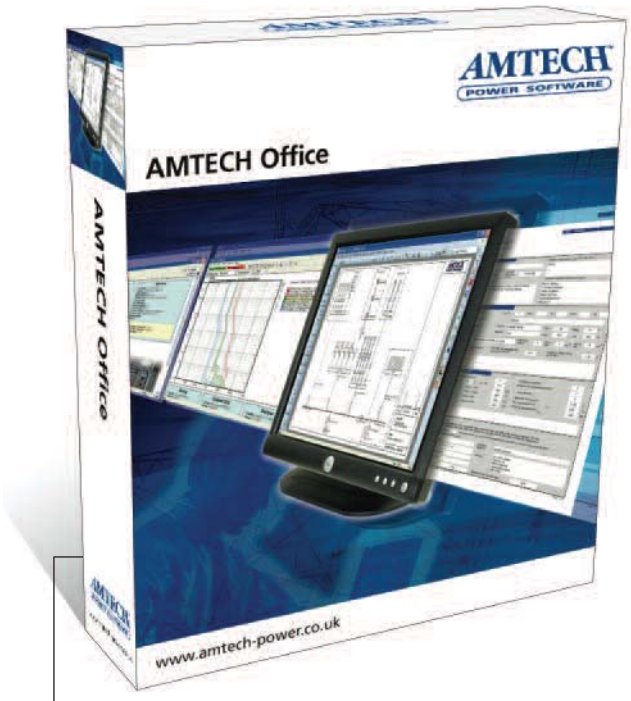
6025 02 with glass door 6026 51

Pack	Cat. Nos.	Incomer kit
1	6026 02	Kit for incomer 250 A 4P
1	6026 06	Kit for incomer 400 A 4P, 25 mm centres
		Accessories
1	6071 80	Handle key lock
1	6071 81	Handle for padlock
1	6026 95	Terminal shield for incomers
1	6071 82	Blank MCCB module plate
		Cable boxes – height 400 mm
1	6026 80	Cable box top/bottom for width 700 mm
1	6026 81	Cable box top/bottom for width 950 mm
		Non-equipped meter boxes
1	6026 25	21 module accessory box - 700 mm
1	6026 28	21 module accessory box - 950 mm
		Glass doors
1	6026 50	Glass door - 1250 x 700 mm
1	6026 51	Glass door - 1450 x 700 mm
1	6026 52	Glass door - 1650 x 700 mm
1	6026 53	Glass door - 1850 x 700 mm
1	6026 54	Glass door - 1250 x 950 mm
1	6026 55	Glass door - 1450 x 950 mm
1	6026 56	Glass door - 1650 x 950 mm
1	6026 57	Glass door - 1850 x 950 mm

For metering devices see p. 377-378

Find us on Amtech...

AMTECH Office is an advanced piece of electrical software that helps you specify your power distribution requirements



AMTECH Office includes Legrand's power and distribution solutions

ALL YOU NEED IN ONE BOX

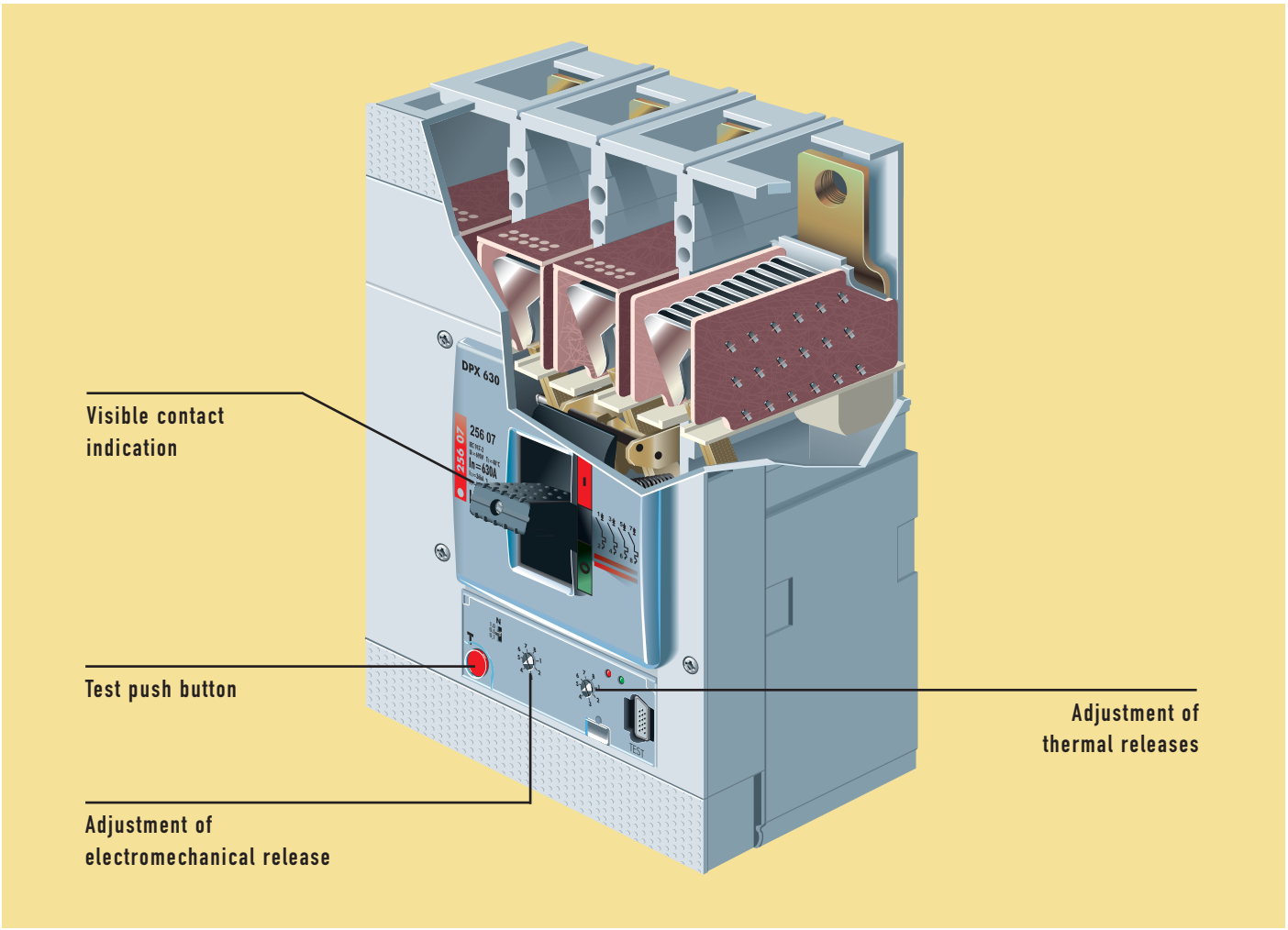


- ProDesign - carries out full and accurate calculations in accordance with BS 7671
- Protect - helps ensure that breakers work when they should and do not nuisance trip
- FastTest - produces professional certification quickly and easily
- SingleCable - sizes any cable - FAST

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Safety and simplicity

**In the commercial sector, specifications are drawn up as a one-off exercise and are rarely modified. Once an MCCB has been defined, this selection is seldom reconsidered.
To minimise both the dimensions and the cost of the distribution board, it is therefore vitally important to locate the most flexible and cost-effective devices.**





FEATURES

- Five frame sizes
- Nominal current (In) : 16 to 800 A
- Breaking capacity (Icu) : 16 to 70 kA
- Auxiliaries come in standard sizes which fit the entire range of MCCBs

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® MCCBs

TYPE OF CASE AND SIZE																		
		DPX 125	DPX 125			DPX 250 ER		DPX 250		DPX 630		DPX 1 250	
													
TYPE OF MCCB													
		DPX-E	DPX-E (16 kA)	DPX (25 kA)	DPX (36 kA)	DPX (36 kA)		DPX	DPX-H	DPX	DPX-H	DPX	DPX-H
Number of poles		1	3-4			3-4		3-4		3-4		3-4	
Nominal rating In (A)		16-125	16-125			25-250		100-250		250-630		500-800	
ELECTRICAL CHARACTERISTICS CONFORMING TO EN 60947-2													
Rated operating voltage Ue (50-60 Hz) ∿		230	500			500		690		690		690	
Rated operating voltage Ue = (V)		–	250			250		250		250		250	
Rated insulation voltage Ui ∿ (V)		290	500			500		690		690		690	
Rated impulse withstand voltage Uimp (kV)		6	6			6		8		8		8	
Category of use		A	A			A		A		A		A	
Ultimate breaking capacity (kA)	230 V∿	16	22	35	40	50		60	100	60	100	80	100
	400 V∿	–	16	25	36	36		36	70	36	70	50	70
	440 V∿	–	10	18	20	25		30	60	30	60	45	65
	480/500 V∿	–	8	12	14	12		25	40	25	40	35	45
	600 V∿	–	–			–		20	25	20	25	25	35
	690 V∿	–	–			–		16	20	16	20	25	25
	250 V⎓	–	16	25	30	36		36	40	–	–	50	50
Standard breaking capacity Ics (% Icu)		50	100	50	75	75		100	75	100	75	100	75
Rated closing capacity on short-circuit (400 V∿)		32	32	52·5	75·6	75·6		75·6	154	75·6	154	105	154
Rated short-time withstand current Icw (kA)													
Endurance (o.c. cycle)	mechanical	25 500	25 000			20 000		20 000		15 000		10 000	
	electrical	8 500	8 000			8 000		8 000		5 000		4 000	
Isolation capability		•	•					•					
TYPE OF PROTECTION													
Thermal-magnetic release		•	•			•		•		•		•	
Electronic release													
Earth leakage modules	underneath		•			•		•		•			
	side by side		•			•							
EXTERNAL ACCESSORIES													
Remote control			•					•		•		•	
Fixed type		•	•			•		•		•		•	
Plug-in type			•			•		•		•			
Draw-out type								•		•		•	
Rotary handle			•			•		•		•		•	
Supply invertor								•		•		•	
DIMENSIONS AND WEIGHTS													
Dimensions (L x H x D) (mm)	single pole	25 x 120 x 74											
	triple pole		75·6 x 120 x 74			90 x 176 x 74		105 x 200 x 105		140 x 260 x 105		210 x 320 x 140	
	four pole		101 x 120 x 74			120 x 176 x 74		140 x 200 x 105		183 x 260 x 105		280 x 320 x 140	
Weight (kg)	triple pole		1			1·6		2·5		5·5		12·2 ≤ 800 > 18	
	four pole		1·2			2·1		3·7		6·4		15·1 ≤ 800 > 23·4	
Allen key size (mm)		4	4			6		5		8		10	

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® 125
MCCBs from 16 to 125 A and trip-free switches


0250 45


0250 99

Electrical characteristics (p. 334)
Dimensions (p. 341)

DPX-E 125 and DPX 125 MCCBs

Conform to IEC 60947-2
Fixed version - front terminals
Max. rated voltage 500 V~ - 50/60 Hz
230 V~ for single pole
Thermal release adjustable from 0·7 to 1 In
Fixed for single pole
Fixed magnetic

DPX-E 125 - 16 kA

Breaking capacity Icu : 16 kA (230 V~)

Pack	Cat. Nos. 1 P	In
1	0250 00	16 A
1	0250 01	20 A
1	0250 02	25 A
1	0250 03	32 A
1	0250 04	40 A
1	0250 05	50 A
1	0250 06	63 A
1	0250 07	80 A
1	0250 08	100 A
1	0250 09	125 A

Breaking capacity Icu : 16 kA (400 V~)

Pack	Cat. Nos. 3 P	4 P	In
1	0250 16	0250 24	16 A
1	0250 17	0250 25	25 A
1	0250 18	0250 26	40 A
1	0250 19	0250 27	63 A
1	0250 20	0250 28	100 A
1	0250 21	0250 29	125 A

DPX 125 - 25 kA

Breaking capacity Icu : 25 kA (400 V~)

Pack	Cat. Nos. 3 P	4 P	In
1	0250 36	0250 44	16 A
1	0250 37	0250 45	25 A
1	0250 38	0250 46	40 A
1	0250 39	0250 47	63 A
1	0250 40	0250 48	100 A
1	0250 41	0250 49	125 A

DPX 125 - 36 kA

Breaking capacity Icu : 36 kA (400 V~)

Pack	Cat. Nos. 3 P	4 P	In
1	0250 50	0250 58	16 A
1	0250 51	0250 59	25 A
1	0250 52	0250 60	40 A
1	0250 53	0250 61	63 A
1	0250 54	0250 62	100 A
1	0250 55	0250 63	125 A

DPX-I 125 trip-free switches

Conform to IEC 60947-3
Category of use AC 23 A
Max. rated voltage 500 V~ - 50/60 Hz
Without thermal-magnetic release

Pack	Cat. Nos. 3 P	4 P	In
1	0250 98	0250 99	125 A

DPX® 125
earth leakage module and accessories


0260 14


0262 01

Dimensions (p. 341)

Can be fitted directly on to DPX-E 125, DPX 125 and DPX-I 125
Operating voltage : 230 to 500 V~
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable and sealable time delay : 0 - 0·3 - 1 - 3 s

Electronic earth leakage module

Equipped with :
- Test and reset push-button
- Isolator switch for electronic circuits (for commissioning tests) to open the DPX automatically

Mounted underneath

Pack	Cat. Nos. 4 P	In
1	0260 14	125 A

Accessories

Insulating shields
Used to isolate the connections between each pole



Pack	Cat. Nos.
1	0262 07

Set of 3 insulating shields

Sealable terminal shields

Pack	Cat. Nos. 3 P	4 P
1	0262 05	0262 06

Set of 2 terminal shields

Padlocking accessory



Pack	Cat. Nos.
1	0262 00

For locking in “OFF” position

Rotary handles

Pack	Cat. Nos.
1	0262 01
1	0262 75

Direct on DPX
Vari-depth handle for door locking

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® 250 ER
MCCBs from 25 to 250 A and trip-free switches


0252 36


0252 99

Electrical characteristics (p. 335)
Dimensions (p. 341)

DPX 250 ER MCCBs

Conform to IEC 60947-2
Fixed version - Front terminals
Max. rated voltage 500 V~ - 50/60 Hz
230 V~ for single pole
Thermal release adjustable from 0·64 to 1 In
Magnetic fixed at 10 in

DPX 250 ER - 25 kA

Breaking capacity Icu : 25 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0252 01	0252 11	25 A
1	0252 02	0252 12	40 A
1	0252 03	0252 13	63 A
1	0252 04	0252 14	100 A
1	0252 05	0252 15	160 A
1	0252 06	0252 16	250 A

DPX 250 ER - 36 kA

Breaking capacity Icu : 36 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0252 21	0252 31	25 A
1	0252 22	0252 32	40 A
1	0252 23	0252 33	63 A
1	0252 24	0252 34	100 A
1	0252 25	0252 35	160 A
1	0252 30	0252 37	200 A
1	0252 26	0252 36	250 A

DPX-I 250 ER trip-free switches

Conform to IEC 60947-3
Category of use AC 23 A

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0252 96	0252 97	160 A
1	0252 98	0252 99	250 A

DPX® 250 ER
earth leakage module and accessories


0260 38


0262 11

Dimensions (p. 341)

Conform to IEC 60947-2 and IEC 60947-3
Thermal release adjustable from 0·64 to 1 In
Can be fitted directly on to DPX 250 ER, DPX-I 250 ER and trip-free switches
Operating voltage : 230 to 500 V~
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Switch for mechanical tests on operation and insulation of the device in case of installation insulation test

Electronic earth leakage module

Pack	Cat. Nos. 4 P	In
1	0260 38	250 A

Nominal operating voltage : 230 - 500 V~

Mounted underneath

Accessories

Connection terminals

Pack	Cat. Nos.	
1	0262 88	Set of 4 terminals for cables without lugs - 185 mm² max. (rigid) or 150 mm² max. (flexible)

Spreaders

For increasing the distance between each pole to be connected

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	
1	0262 90	0262 91	Set of incoming or outgoing spreaders

Insulating shields



Used to isolate the connections between each pole

Pack	Cat. Nos.	
1	0262 07	Set of 3 insulating shields

Sealable terminal shields



Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	
1	0262 85	0262 86	Set of 2 terminal shields

Direct on DPX rotary handle

Pack	Cat. Nos.	
1	0262 11	Standard (grey)

Vari-depth rotary handle

The vari-depth handle includes : connecting rod, bracket, self-adhesive drilling template, mounting accessories and door locking mechanism

Pack	Cat. Nos.	
1	0262 77	Standard (grey)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® 250
MCCBs from 100 to 250 A and trip-free switches


0253 49


0253 73

Selectivity and co-ordination (p. 339-340)
Performance characteristics (p. 336)
Dimensions (p. 342)
Auxiliaries (p. 332)

DPX 250 MCCBs

Conform to IEC 60947-2
Adjustable thermal release from 0·64 to 1 In
Adjustable magnetic from 3·5 to 10 In
Sealable thermal and magnetic releases
Supplied with terminal shields

DPX 250 - 36 kA
Breaking capacity Icu : 36 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0253 30	0253 47	100 A
1	0253 31	0253 48	160 A
1	0253 32	0253 49	250 A

DPX-H 250 - 70 kA
Breaking capacity Icu : 70 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0253 54	0253 71	100 A
1	0253 55	0253 72	160 A
1	0253 56	0253 73	250 A

DPX-I 250 trip-free switches

Conform to IEC 60947-3 and EN 60947-3
Category of use AC 23 A
Fixed version - front terminals
Without thermal-magnetic release

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0253 98	0253 99	250 A

DPX® 250
earth leakage modules and accessories


0260 55


0262 22

Dimensions (p. 342)

Electronic earth leakage modules

Can be fitted directly on to MCCBs and trip-free switches
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Test push-button - Reset push-button
Integrated remote earth fault signalling contact
Rated operating voltage : 230 - 500 V~
Mounted underneath

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P
1	0260 54	0260 55

Accessories






Insulating shields
Used to isolate the connections between each pole
1 — 0262 30 — Set of 3 insulating shields

Sealable terminal shields
Cat. Nos. 3 P / 4 P
1 — 0262 26 / 0262 27 — Set of 2 terminal shields

Padlocking device
1 — 0262 21 — For locking in “OFF” position

Connection terminals
1 — 0262 35 — Sets of 4 terminals for bare cables 185 mm² max. (rigid) or 150 mm² max. (flexible)

Direct on DPX rotary handle
1 — 0262 22 — Standard (black)

Vari-depth rotary handle
The vari-depth handle includes : connecting rod, bracket, self-adhesive drilling template, mounting accessories and door locking mechanism
1 — 0262 79 — Standard (black)

Locking accessory
1 — 0262 25 — For rotary handles above

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® 630
MCCBs from 250 to 630 A and trip-free switches



0255 58

Selectivity and co-ordination (p. 339-340)
Performance characteristics (p. 337)
Dimensions (p. 342)
Auxiliaries (p. 332)

DPX 630 MCCBs

Conform to IEC 60947-2
Fixed version - front terminals
Max. rated voltage 690 V~ - 50/60 Hz
230 V~ for single pole
Thermal release adjustable from 0·8 to 1 In
Magnetic release adjustable from 5 to 10 In
Supplied with incoming terminals mounted

DPX 630 - 36 kA

Breaking capacity Icu : 36 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0255 21	0255 36	250 A
1	0255 22	0255 37	320 A
1	0255 23	0255 38	400 A
1	0255 24	0255 40	630 A

DPX-H 630 - 70 kA

Breaking capacity Icu : 70 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0255 41	0255 56	250 A
1	0255 42	0255 57	320 A
1	0255 43	0255 58	400 A
1	0255 44	0255 60	630 A

DPX-I 630 trip-free switches

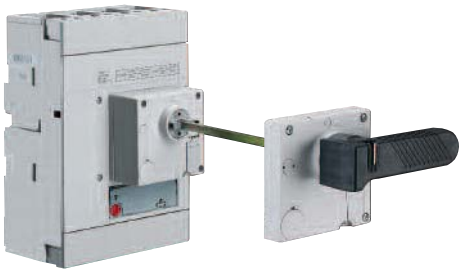
Conform to IEC 60947-3
Category of use AC 23 A

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0255 96	0255 97	400 A
1	0255 88	0255 89	630 A

DPX® 630
earth leakage modules and accessories



0260 61



0262 81

Dimensions (p. 342)

Electronic earth leakage modules

Can be fitted directly on to standard MCCBs and trip-free switches
Adjustable and sealable sensitivity : 0·03 - 0·3 - 1 - 3 A
Adjustable tripping : 0 - 0·3 - 1 - 3 s
Test push-button - Reset push-button
Integrated remote earth fault signalling contact
Rated operating voltage : 230 - 500 V~

Mounted underneath

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	
1	0260 60	0260 61	For DPX 630 (up to In 400 A)
1	0260 64	0260 65	For DPX 630 (In 630 A)

Accessories

Insulating shields
Used to isolate the connections between each pole
1 — 0262 30 — Set of 3 insulating shields



Sealable terminal shields

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	
1	0262 44	0262 45	Set of 2 terminal shields



Padlocking accessory
1 — 0262 40 — For locking in "OFF" position

Connection terminals
1 — 0262 50 — Set of 4 terminals for cables, 150 mm² max. (rigid) or 120 mm² max. (flexible)

High-capacity terminals
1 — 0262 51 — Set of 4 for 2 x 240 mm² (rigid) or 2 x 185 mm² flexible

Direct on DPX rotary handle
1 — 0262 41 — Standard (black)

Vari-depth rotary handle
The vari-depth handle includes : connecting rod, bracket, self-adhesive drilling template, mounting accessories and door locking mechanism
1 — 0262 81 — Standard (black)

Locking accessory
1 — 0262 25 — For rotary handles above

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® 1 250
MCCBs from 500 to 800 A, trip-free switches and accessories

control and signalling auxiliaries
for all DPX


0258 02


0262 61


0261 60


0261 83

Selectivity and co-ordination (p. 339-340)
Performance characteristics (p. 338)
Dimensions (p. 343)
Auxiliaries (p. 332)

DPX 1 250 MCCBs

Conform to IEC 60947-2
Fixed version - front terminals
Max. rated voltage 690 V~ - 50/60 Hz
Thermal release adjustable from 0·8 to 1 In
Magnetic release adjustable from 5 to 10 In from 500 to 800 A
Magnetic release adjustable from 3 to 6 In from 1 000 to 1 250 A
Supplied with incoming terminals mounted

DPX 1 250 - 50 kA
Breaking capacity Icu : 50 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P(1)	In
1	0258 00	0258 07	500 A
1	0258 01	0258 08	630 A
1	0258 02	0258 09	800 A

DPX-H 1 250 - 70 kA
Breaking capacity Icu : 70 kA (400 V~)

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P(1)	In
1	0258 14	0258 21	500 A
1	0258 15	0258 22	630 A
1	0258 16	0258 23	800 A

DPX-I 1 250 trip-free switches

Conform to IEC 60947-3
Category of use AC 23 A
Without thermal-magnetic release

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	In
1	0257 92	0257 93	630 A
1	0257 94	0257 95	800 A

Accessories

Insulation shields
Used to isolate the connections between each pole

Pack	Cat. Nos.	
1	0262 66	Set of 3 insulation shields

Sealable terminal shields

Pack	Cat. Nos. 3 P	Cat. Nos. 4 P	
1	0262 64	0262 65	Set of 2 short terminal shields



Padlock

Pack	Cat. Nos.	
1	0262 60	For handle, locking in "OFF" position

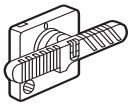
Connection terminals
For connecting bare cables without lugs

Pack	Cat. Nos.	
1	0262 69	Set of 1 terminal 2 x 240 mm² (rigid) or 2 x 185 mm² (flexible)
1	0262 70	Set of 1 high-capacity terminal 4 x 240 mm² for rigid cable 4 x 185 mm² for flexible cable



Extended front terminals

Pack	Cat. Nos.	
1	0262 67	Short terminals
1	0262 68	Long terminals



Direct on DPX rotary handle

Pack	Cat. Nos.	
1	0262 61	Standard (black)

Vari-depth rotary handle
The vari-depth handle includes : connecting rod, bracket, self-adhesive drilling template, mounting accessories and locking mechanism

Pack	Cat. Nos.	
1	0262 83	Standard (black)

Locking accessory

Pack	Cat. Nos.	
1	0262 25	For rotary handles above

(1) 3 P + N (Neutral on left - not protected)

Auxiliary contact or fault signal

For signalling the state of the contacts or opening of the MCCB on a fault

For MCCBs and trip-free switches from 16 to 800 A

Pack	Cat. Nos.	
1	0261 60	Changeover switch 3 A - 240 V

Shunt trips

Allow remote tripping of a DPX

For MCCBs and trip-free switches from 16 to 800 A

Pack	Cat. Nos. Shunt inrush power 300 VA	
1	0261 64	Coil voltage 24 V~ and ⎓
1	0261 65	Coil voltage 48 V~ and ⎓
1	0261 66	Coil voltage 110 V~ and ⎓
1	0261 67	Coil voltage 230 V~ and ⎓
1	0261 68	Coil voltage 400 V~ and ⎓

Undervoltage releases

Allow remote tripping of a DPX

For MCCBs and trip-free switches from 16 to 800 A

Pack	Cat. Nos. Undervoltage power consumption 5 VA For DPX 125	Cat. Nos. For all DPX 250 to 1 250	
1	0261 70	0261 80	Coil voltage 24 V⎓
1	0261 71	0261 81	Coil voltage 24 V~
1	0261 72	0261 82	Coil voltage 48 V⎓
1	0261 76	0261 86	Coil voltage 110 V~
1	0261 73	0261 83	Coil voltage 230 V~
1	0261 74	0261 84	Coil voltage 400 V~

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

technical information
key to characteristic curves

■ Characteristic curves

The graphs on the following pages detail the characteristic curves of each circuit breaking device.

Complying with isolation requirements, the units are provided with fully visible contact indication and a lock-off facility.

■ Time/current characteristics : thermal-magnetic

Reference ambient temperature 40 °C (DPX)
I = actual current
Ir = operating current
1 = thermal release from cold
2 = thermal release from hot
Tolerance of magnetic release ±20 %

■ I²t/Icc characteristics

Icc = prospective symmetrical short-circuit current (mms value - A)
I²t = specific let through energy (A^2s)

■ Limiting characteristics

Icc = prospective symmetrical short-circuit current (mms value - A)
Ip = maximum peak value of current
= maximum peak values of short-circuit current corresponding to power factors indicated above
= maximum peak values of actual short-circuit current

■ Time/current characteristics : earth fault protection

I n = residual operating current (sensitivity)
t = operating time

■ Time/current characteristics : electronic DPX

Ir = overload operating current
Tr = overload operating time
Im = short-circuit operating time
Tm = short-circuit operating time, normal and at I²t constant
If = instantaneous trip operating current
Ig = earth fault operating current
Tg = earth fault operating time



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

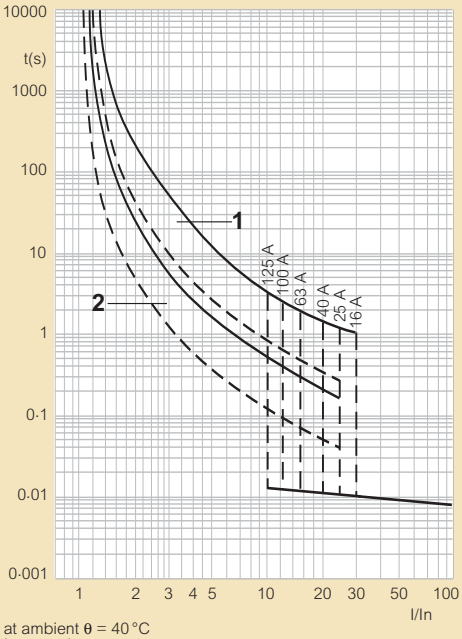
■ Electrical characteristics

Maximum nominal operating function	500 V~ - 250 V⎓
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0·7 to 1 In
Maximum permitted cross-sections	rigid cables : 70 mm^2 flexible cables : 50 mm^2 copper bar (width) : 12 mm

Nominal breaking capacity (kA) (EN 60947-2 and IEC 60947-2)

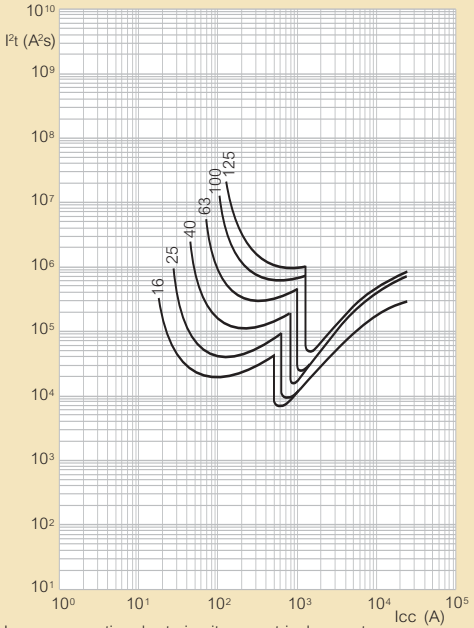
	DPX 125 25 kA		DPX 125 36 kA	
Ue	**Icu (kA)**	**Ics (%Icu)**	**Icu (kA)**	**Ics (%Icu)**
400 V~	25	50	36	75
230 V~	35	50	40	75

■ Tripping curves



at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

■ Thermal stress limitation curves



Icc = prospective short-circuit symmetrical current (rms values in A)
I^2t = limited thermal stress (in A^2s)

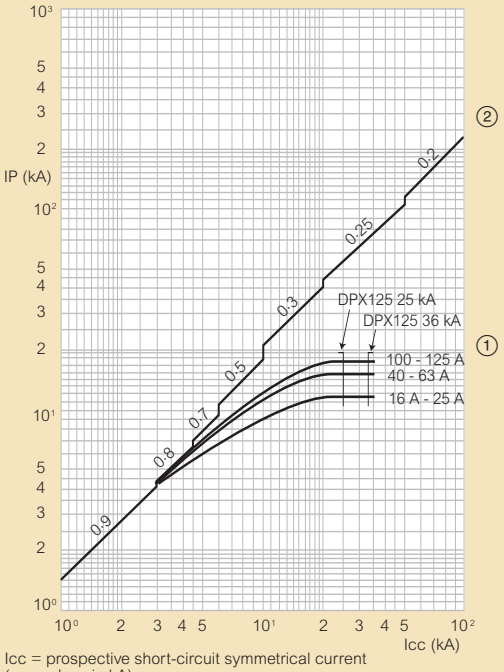
Nominal current (In) at 40 °C (A) for DPX 125

In (A)	16	25	40	63	100	125
Phase	16	25	40	63	100	125
N	16	25	40	63	100	125
N/2	–	–	–	–	63	63

Fixed magnetic threshold (Im) (A)(1) for DPX 125

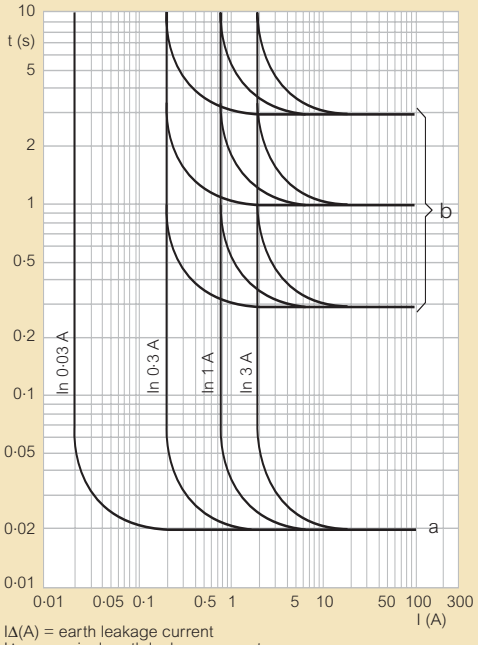
In (A)	16	25	40	63	100	125
Phase	480	625	800	950	1250	1250
N	480	625	800	950	950	950

■ Current limitation curves



Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max.peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·15 to 0·9)

■ Differential tripping curves



IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

(1) Trip current for 50/60 Hz
For direct current, multiply by 1·5

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

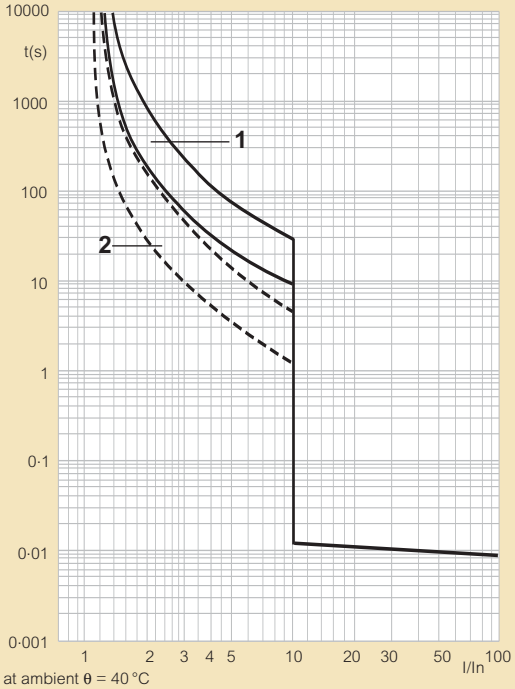
■ Electrical characteristics

Maximum nominal operating function	500 V~ - 250 V⎓
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0·64 to 1 In
Maximum permitted cross-sections	rigid cables : 185 mm² flexible cables : 150 mm² copper bar (width) : 22 mm

Nominal breaking capacity (kA) (EN 60947-2 and IEC 60947-2)

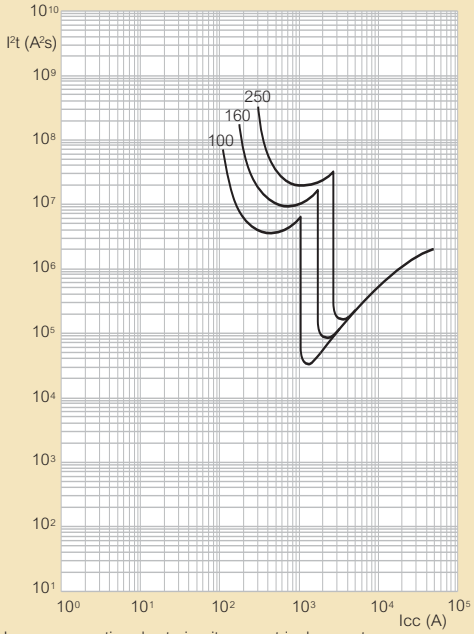
	DPX 250 ER 25 kA	
Ue	**Icu (kA)**	**Ics (%Icu)**
400 V~	25	100
230 V~	40	100

■ Tripping curves



at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

■ Thermal stress limitation curves



Icc = prospective short-circuit symmetrical current (rms values in A)
I²t = limited thermal stress (in A²s)

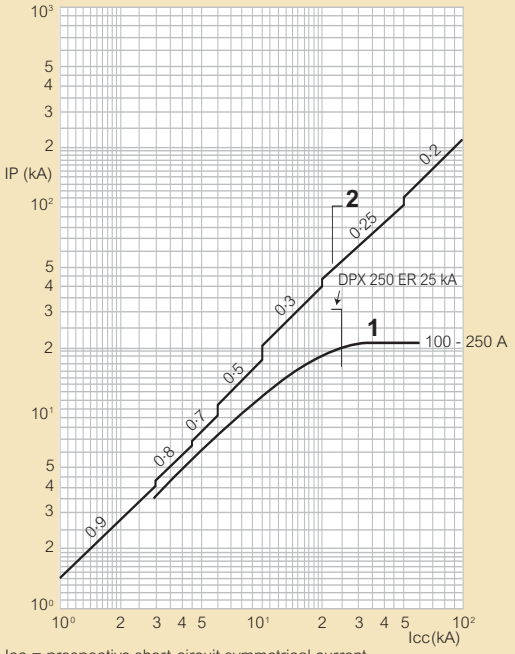
Nominal current (In) at 40 °C (A) for DPX 250 ER

In (A)	100	160	250
Phase	100	160	250
N	100	160	250
N/2	–	100	160

Fixed magnetic threshold (Im) (A) for DPX 250 ER

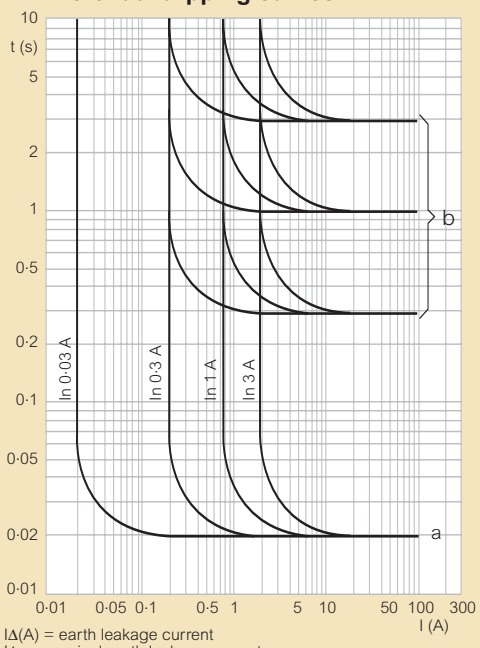
In (A)	100	160	250
Phase	1 000	1 600	2 500
N	1 000	1 600	2 500
N/2	–	1 000	1 600

■ Current limitation curves



Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max.peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·2 to 0·9)

■ Differential tripping curves



IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

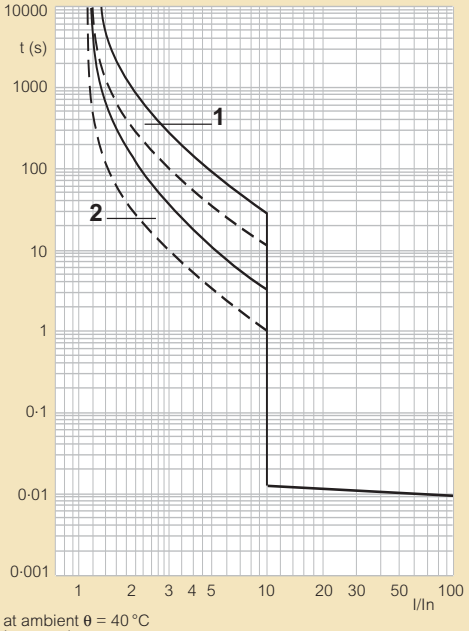
■ Electrical characteristics

Maximum nominal operating function	690 V~ - 250 V⎓
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0·64 to 1 In
Magnetic release	3·5 to 10 In
Maximum permitted cross-sections	rigid cables : 185 mm² flexible cables : 150 mm² copper bar (width) : 25 mm

Nominal breaking capacity (kA) (EN 60947-2 and IEC 60947-2)

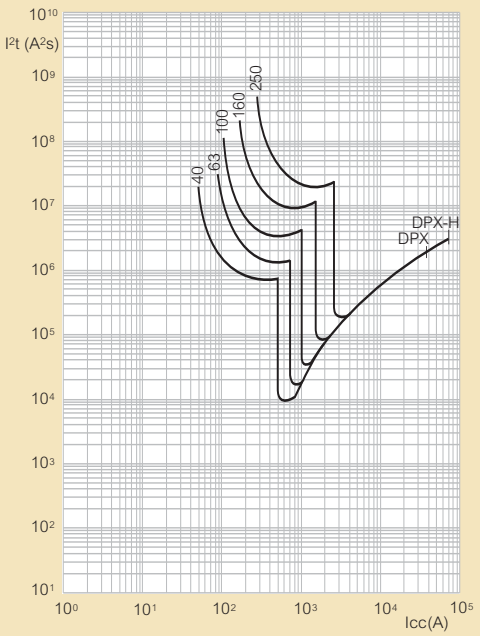
	DPX 250 36 kA		DPX-H 250 70 kA	
Ue	**Icu (kA)**	**Ics (%Icu)**	**Icu (kA)**	**Ics (%Icu)**
400 V~	36	100	70	75
230 V~	60	100	100	75

■ Tripping curves



at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)

■ Thermal stress limitation curves



Icc = prospective short-circuit symmetrical current (rms values in A)
I²t = limited thermal stress (in A²s)

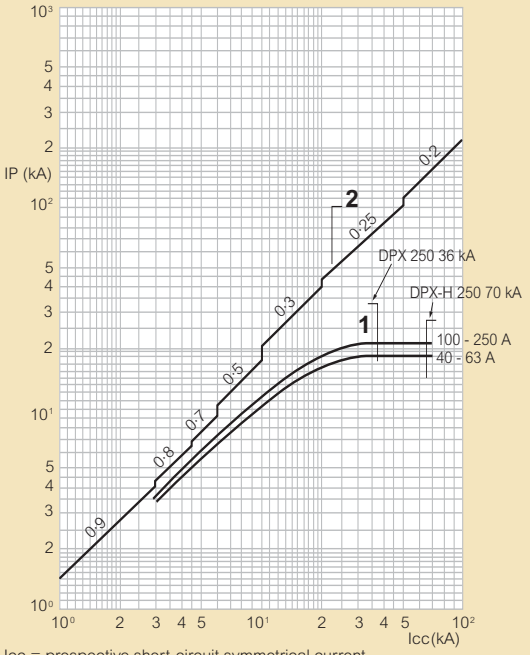
Nominal current (In) at 40 °C (A) for DPX 250

In (A)	**40**	**63**	**100**	**160**	**250**
Phase	40	63	100	160	250
N	40	63	100	160	250
N/2	40	63	63	100	160

Fixed magnetic threshold (Im) (A) for DPX 250

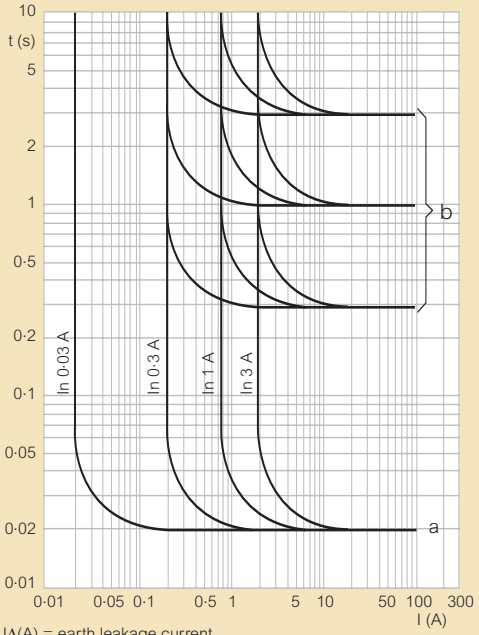
In (A)	**40**	**63**	**100**	**160**	**250**
Phase	140-400	220-630	350-1 000	560-1 600	900-2 500
N	140-400	220-630	220-630	350-1 000	560-1 600

■ Current limitation curves



Icc = prospective short-circuit symmetrical current (rms values in kA)
IP = maximum peak value (kA)
① = current, max.peak, short-circuit rms
② = current, unlimited peak (max.), corresponding to power factors shown above (0·2 to 0·9)

■ Differential tripping curves



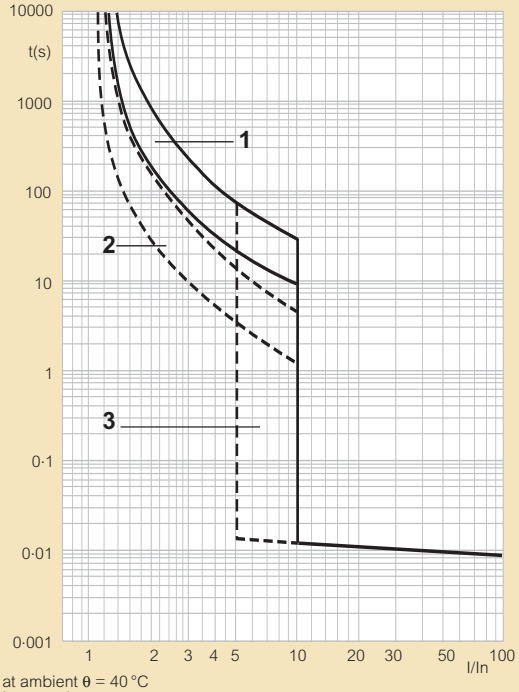
IΔ(A) = earth leakage current
IΔn = nominal earth leakage current
a = instantaneous tripping point
b = 3 possible delay settings (0·3, 1 and 3 seconds)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Electrical characteristics

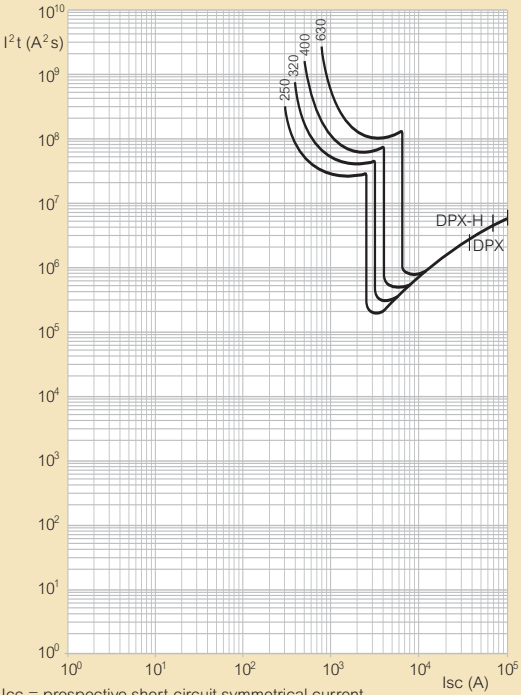
Maximum nominal operating function	690 V~
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0·8 to 1 In
Magnetic release	0·5 to 10 In
Maximum permitted cross-sections	rigid cables : 300 mm² (or 2 x 240 mm²) flexible cables : 240 mm² (or 2 x 185 mm²) copper bar (width) : 32 mm

■ Tripping curves



at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)
③ = magnetic release zone

■ Thermal stress limitation curves



Icc = prospective short-circuit symmetrical current (rms values in A)
I^2t = limited thermal stress (in A^2s)

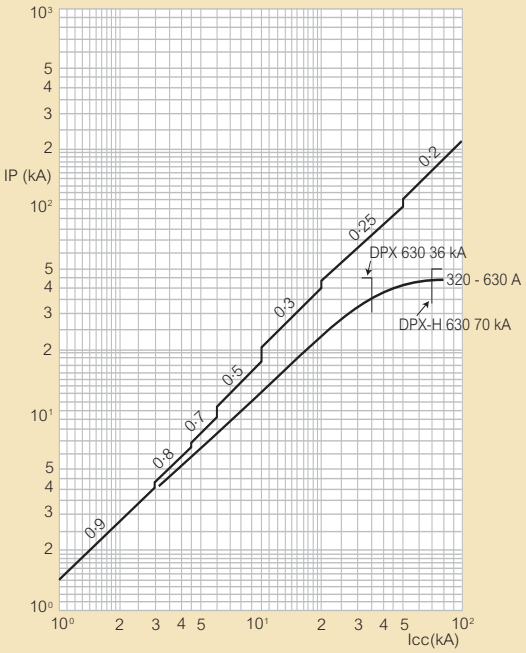
Nominal breaking capacity (kA) (EN 60947-2 and IEC 60947-2)

	DPX 630		DPX-H 630	
Ue	**Icu (kA)**	**Ics (%Icu)**	**Icu (kA)**	**Ics (%Icu)**
400 V~	36	100	70	75
230 V~	60	100	100	75

Nominal current (In) for DPX 630 and DPX-H 630

Phase	320	400	500	630
N	320	400	500	630
N/2	250	250	250	320

■ Current limitation curves



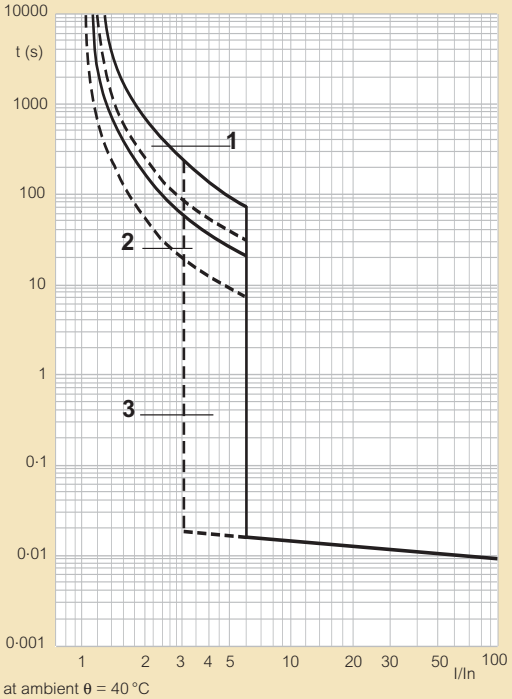
Icc = prospective short-circuit symmetrical current (rms values in kA)
I^2t = limited thermal stress (in A^2s)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Electrical characteristics

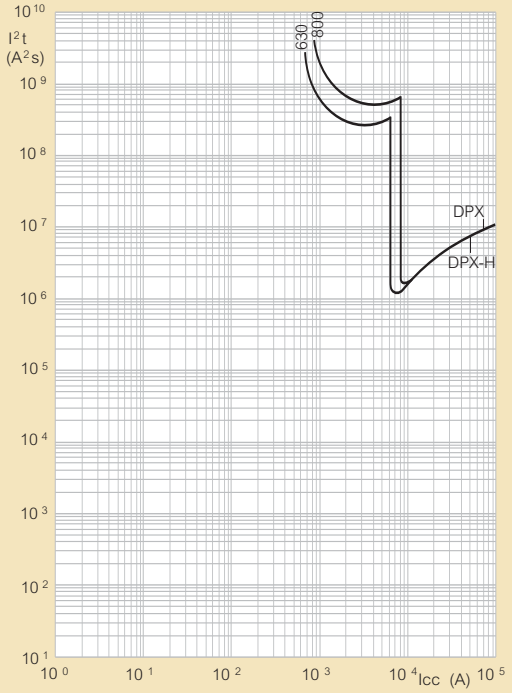
Maximum nominal operating function	690 V~
Nominal frequency	50/60 Hz
Category of use	A
Thermal adjustment	0·8 to 1 In
Maximum permitted cross-sections	2 or 4 rigid cables : 240 mm^2 2 or 4 flexible cables : 185 mm^2 copper bar (width) : 50 mm

■ Tripping curves



at ambient θ = 40 °C
I = actual current
Ir = max. adjustment current of thermal release
① = thermal release zone when cold
② = thermal release zone when hot (in steady state)
③ = magnetic release zone

■ Thermal stress limitation curves



Icc = prospective short-circuit symmetrical current
(rms values in A)
I^2t = limited thermal stress (in A^2s)

Nominal breaking capacity (kA) (EN 60947-2 and IEC 60947-2)

	DPX 1 250		DPX-H 1 250	
Ue	**Icu (kA)**	**Ics (%Icu)**	**Icu (kA)**	**Ics (%Icu)**
400 V~	50	100	70	75
230 V~	80	100	100	75

Nominal current (In) for DPX 1 250 and DPX-H 1 250

Phase	**630**	**800**

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DPX® selectivity table

■ Limits of selectivity (three phase circuit at 400 V)

Upstream MCCBs

Downstream MCCBs		DPX 125 (16, 25 and 36 kA)				DPX 250 ER (25 and 36 kA)				DPX 250 DPX-H 250				DPX 630 DPX-H 630				DPX 1 250 DPX-H 1 250	
	In (A)	40	63	100	125	63	100	160	250	63	100	160	250	320	400	500	630	630	800
DPX	Ist (kA)	0·8	0·95	1·25	1·25	0·63	1	1·6	2·5	0·63	1	1·6	2·5	3·2	4	5	6·3	6·3	8
DPX 125 (16 kA)	16 A	0·8	1	1·2	1·2	1	1·6	2·5	1	1·6	2·5	6	6	6	6	8	12	T	T
	25 A	0·8	1	1·2	1·2	1	1·6	2·5	1	1·6	2·5	6	6	6	6	8	12	T	T
	40 A		1	1·2	1·2	1	1·6	2·5	1	1·6	2·5	6	6	6	6	8	12	T	T
	63 A			1·2	1·2		1·6	2·5		1·6	2·5	6	6	6	6	8	12	T	T
	100 A						1·6	2·5		1·6	2·5	4	4	4	6	8	12	T	T
	125 A						1·6	2·5		1·6	2·5	4	4	4	6	8	12	T	T
DPX 125 (25 kA)	25 A	0·8	1	1·2	1·2	0·63	1	1·6	2·5	0·63	1	1·6	2·5	6	6	6	8	16	16
	40 A		1	1·2	1·2		1	1·6	2·5		1	1·6	2·5	6	6	6	8	16	16
	63 A			1·2	1·2			1·6	2·5			1·6	2·5	6	6	6	8	16	16
	100 A							1·6	2·5			1·6	2·5	4	4	6	8	16	16
	125 A							1·6	2·5			1·6	2·5	4	4	6	8	16	16
DPX 125 (36 kA)	16 A	0·8	1	1·2	1·2	0·63	1	1·6	2·5	0·63	1	1·6	2·5	6	6	6	8	16	16
	25 A	0·8	1	1·2	1·2		1	1·6	2·5		1	1·6	2·5	6	6	6	8	16	16
	40 A		1	1·2	1·2		1	1·6	2·5		1	1·6	2·5	6	6	6	8	16	16
	63 A			1·2	1·2			1·6	2·5			1·6	2·5	6	6	6	8	16	16
	100 A							1·6	2·5			1·6	2·5	4	4	6	8	16	16
	125 A							1·6	2·5			1·6	2·5	4	4	6	8	16	16
DPX 250 ER (25 kA)	63 A					0·63	1	1·6	2·5		1	1·6	2·5	3·2	4	5	6·3	16	16
	100 A							1·6	2·5			1·6	2·5	3·2	4	5	6·3	16	16
	160 A								2·5				2·5	3·2	4	5	6·3	16	16
	250 A													3·2	4	5	6·3	16	16
DPX 250 (36 kA)	63 A										1	1·6	2·5	3·2	4	5	6·3	16	16
	100 A											1·6	2·5	3·2	4	5	6·3	16	16
	160 A												2·5	3·2	4	5	6·3	16	16
	250 A													3·2	4	5	6·3	16	16
DPX-H 250 (70 kA)	63 A													3·2	4	5	6·3	16	16
	100 A													3·2	4	5	6·3	16	16
	160 A													3·2	4	5	6·3	16	16
	250 A													3·2	4	5	6·3	16	16
DPX 630 (36 kA)	320 A														4	5	6·3	10	10
	400 A															5	6·3	10	10
	500 A																6·3	10	10
	630 A																		10
DPX-H 630 (70 kA)	320 A														4	5	6·3	10	10
	400 A															5	6·3	10	10
	500 A																6·3	10	10
	630 A																		10
DPX 1 250 (50 kA)	630 A																		8
	800 A																		
DPX-H 1 250 (70 kA)	630 A																		8
	800 A																		

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Association and co-ordination of MCCBs (in kA)

In 3 phase networks + N 400/415 V∿ according to IEC 60947-2

	DPX 125 25 kA	DPX 125 36 kA	DPX 250 ER 36 kA	DPX 250 36 kA	DPX-H 250 70 kA	DPX- 630 36 kA	DPX-H 630 70 kA	DPX 1250 50 kA	DPX-H 1250 70 kA
DPX-E 125	25	36	36	36	65	36	65	50	65
DPX 125[1]		36	36	36	65	36	65	50	70
DPX 125[2]					70		70	50	70
DPX 250 ER[2]					70		70	50	70
DPX 250 ER[3]					70		70		70
DPX 250					70		70	50	70
DPX-H 250									
DPX 630							100	50	70
DPX-H 630									70
DPX 1250									70
DPX-H 1250									

(1) 25 kA Icu (2) 36 kA Icu (3) 50 kA Icu

■ Association and co-ordination of MCCBs and MCBs (in kA)

In 3 phase networks 400 V∿ according to IEC 60947-2

MCBs/MCCBs upstream — **Fuses upstream**

MCBs downstream		DX-H 10 kA B and C curves		DPX E 125	DPX 125	DPX 250 ER				DPX/H 250				DPX/H 630		DPX/H 1250	gG TYPE	
		2 to 32 A	40 to 63 A	16 to 125 A	16 to 125 A	63 A	100 A	160 A	250 A	63 A	100 A	160 A	250 A	160 and 400 A	630 A	500 to 800 A	20 to 50 A	63 to 125 A
DX-E 6 kA DX-D D[1] curve	1 to 20 A	25	12·5	16	25	25	25	25	25	25	25	25	25	25	25	25	100	100
	25 A	25	12·5	16	25	25	25	25	25	25	25	25	25	25	25	20	100	100
	32 A		12·5	16	25	25	25	25	25	25	25	25	25	25	25	15	100	100
	40 A		12·5	16	25	25	25	25	25	25	25	25	20	20	20	15	100	100
	50 A			16	25	25	25	20	20	25	25	20	15	15	15	12·5		100
	63 A			16	25		20	15	15	20	20	15	15	15	15	12·5		100
DX-H 10 kA B and C[1] curves	1 to 16 A			16	25	25	25	25	25	25	25	25	25	25	25	25		100
	20 A			16	25	25	25	25	25	25	25	25	25	25	25	25		100
	25 A			16	25	25	25	25	25	25	25	25	25	25	25	20		100
	32 A			16	25	25	25	25	25	25	25	25	25	25	25	15	100	100
	40 A			16	25	25	25	25	25	25	25	25	20	20	20	15	100	100
	50 A			16	25	25	25	20	20	25	25	20	15	15	15	12·5	100	100
	63 A			16	25	25	20	15	15	20	20	15	15	15	15	12·5	100	100
	80 A				20			20	20		20	20	20	20	15	12·5	100	100
	100 A				20			20	20			20	20	20	15	12·5		100
	125 A							15	15			15	15	15	10	10		100

(1) The magnetic threshold of the upstream circuit breaker must be higher than the magnetic threshold of the downstream circuit breaker

■ Association and co-ordination of MCCBs and MCBs (in kA)

In 3 phase networks + N 230/240 V∿ according to IEC 60947-2

MCBs/MCCBs upstream — **Fuses upstream**

MCBs downstream		DX-H 10 kA B and C curves		DPX-E 125	DPX 125	DPX 250 ER				DPX/H 250				DPX/H 630	DPX/H 1250	gG TYPE	
		2 to 32 A	40 to 63 A	16 to 125 A	16 to 125 A	63 A	100 A	160 A	250 A	63 A	100 A	160 A	250 A	250 to 400 A	500 to 800 A	20 to 50 A	63 to 125 A
DX-E 6 kA DX-D D[1] curve	1 to 25 A	50	25	22	35	50	50	50	50	50	50	50	50	50	50	100	100
	32 & 40 A		25	22	35	50	50	50	50	50	50	50	50	50	50	100	100
	50 A			16	25	36	36	36	36	45	45	36	30	30	25		100
	63 A			16	25		30	30	30		45	30	30	30	25		100
	80 A			16	25		25	25	25		25	25	25	25	20		100
	100 A			16	25			25	25			25	25	25	20		100
	125 A							25	25			25	25	25	20		100
DX-H 10 kA B and C[1] curves	1 to 40 A			22	35	50	50	50	50	50	50	50	50	50	50	100	100
	50 A			16	25	36	36	36	36	45	45	36	30	30	25		100
	63 A			16	25		30	30	30		45	30	30	30	25		100

(1) The magnetic threshold of the upstream circuit breaker must be higher than the magnetic threshold of the downstream circuit breaker

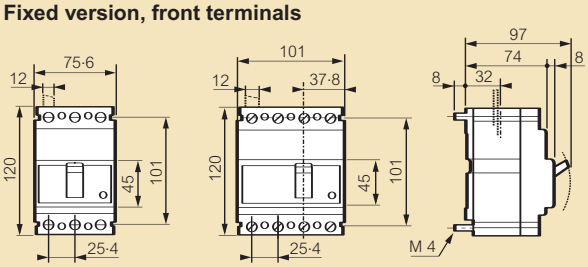
TT or TNS neutral earthing systems : For a 230/400 V supply in order to determine the breaking capacity of a 2 P MCB used as L + N (230 V) downstream a 2 P or 4 P circuit breaker use values indicated in the table for 230/240 V

Note : selectivity table - MCCBs (see previous page)

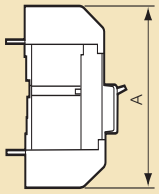
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions

Fixed version, front terminals

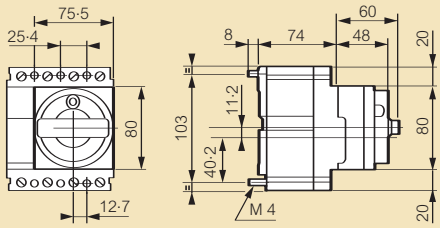


Terminal shields

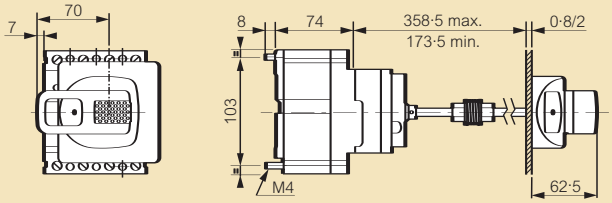


	A (mm)
DPX 125	170
DPX 125 + earth leakage module mounted underneath	260

Rotary handle direct on DPX

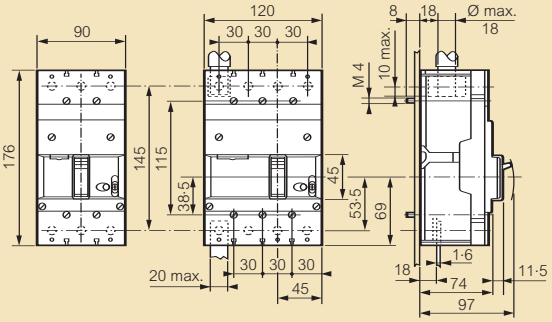


Vari-depth handle



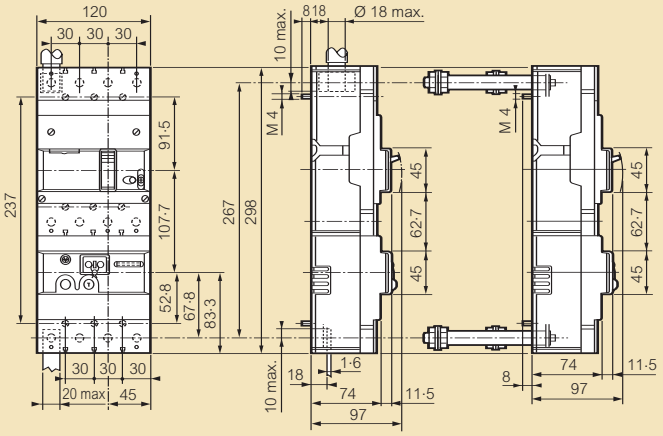
■ Dimensions

Fixed version, front terminals

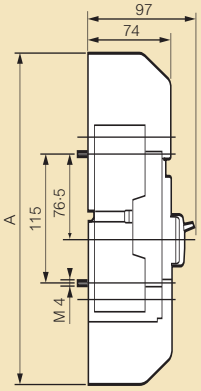


Fixed version, with earth leakage module mounted underneath

front terminals rear terminals

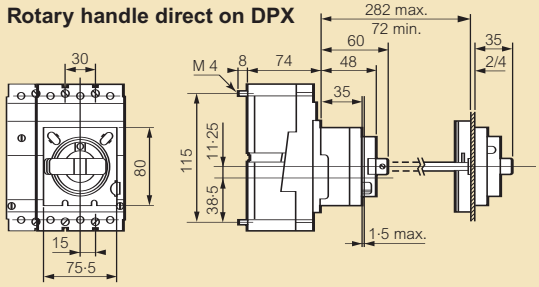


Terminal shields

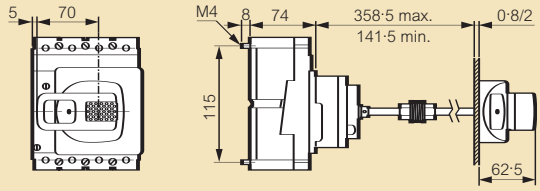


	A (mm)
DPX 250 ER	296
DPX 250 ER + earth leakage module mounted underneath	418

Rotary handle direct on DPX



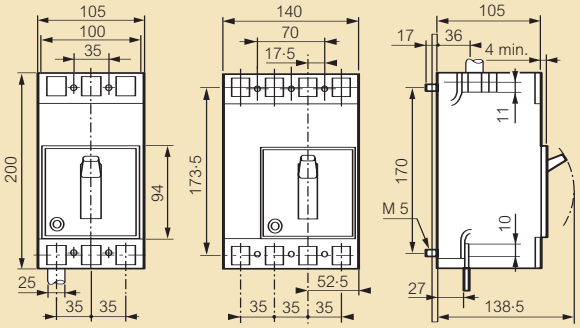
Vari-depth handle



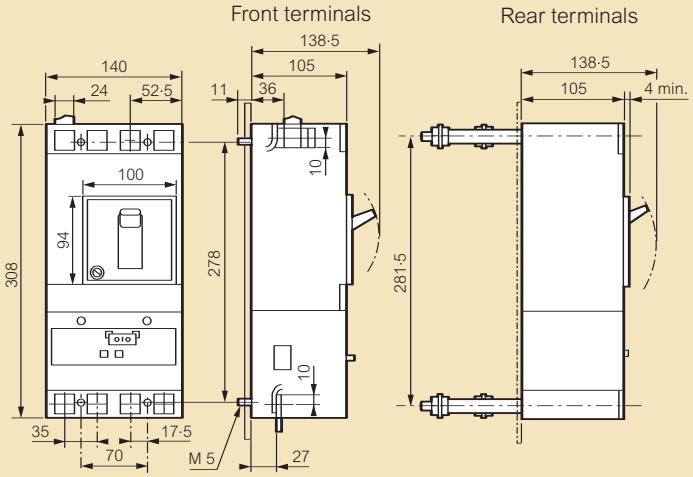
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions

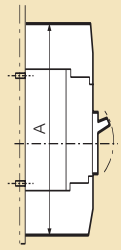
Fixed version, front terminals



Fixed version, with earth leakage module mounted underneath(1)

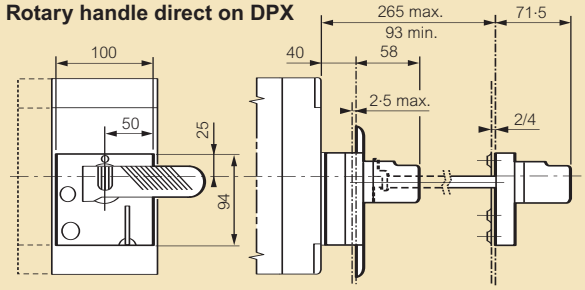


Terminal shields

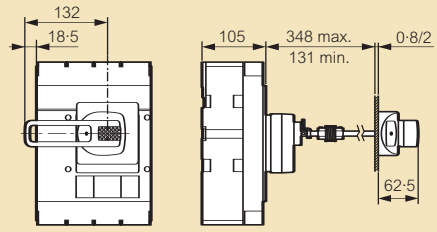


	A (mm)
DPX 250	330
DPX 250 + earth leakage module mounted underneath	438

Rotary handle direct on DPX



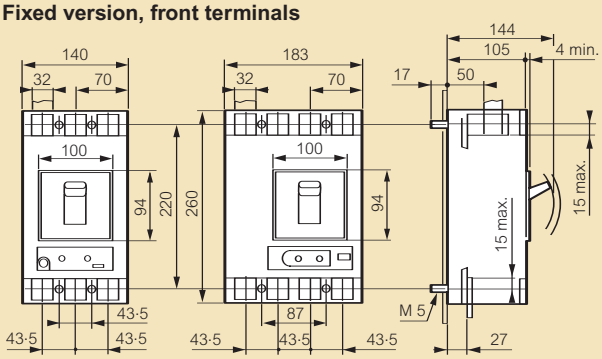
Vari-depth handle



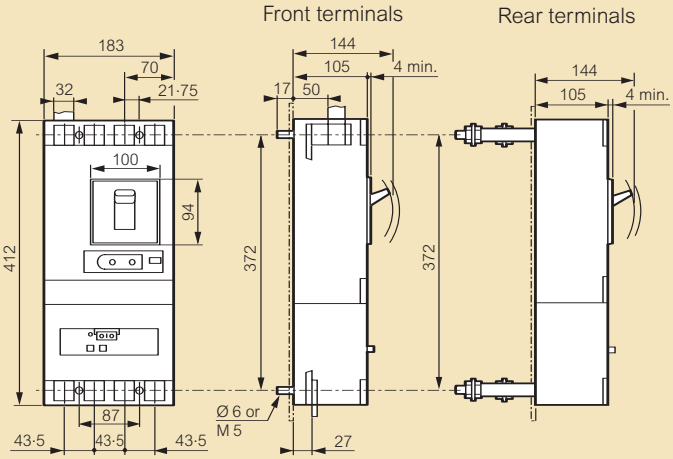
(1) The dimensions of the 3-pole earth leakage modules are the same as the dimensions of the 4-pole earth leakage modules

■ Dimensions

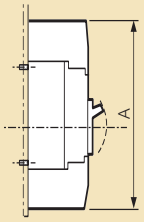
Fixed version, front terminals



Fixed version, with earth leakage module mounted underneath(1)

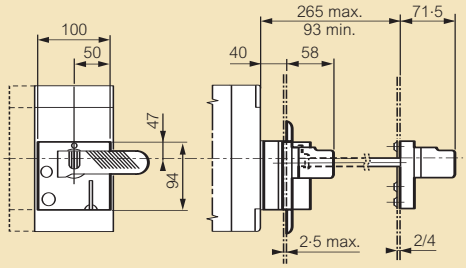


Terminal shields

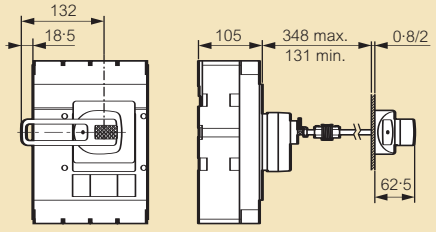


	A (mm)
DPX 630	390
DPX 630 + earth leakage module mounted underneath	542

Rotary handle direct on DPX



Vari-depth handle

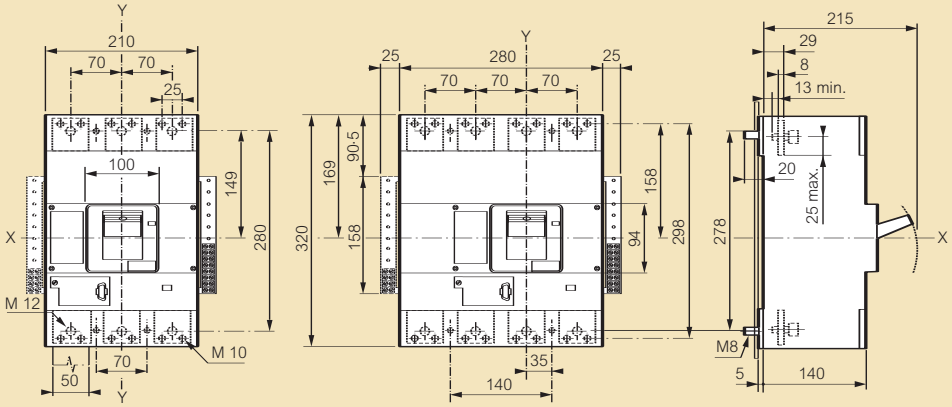


(1) The dimensions of the 3-pole earth leakage modules are the same as the dimensions of the 4-pole earth leakage modules

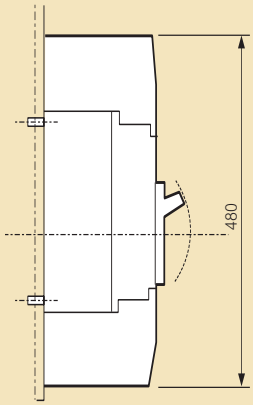
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions

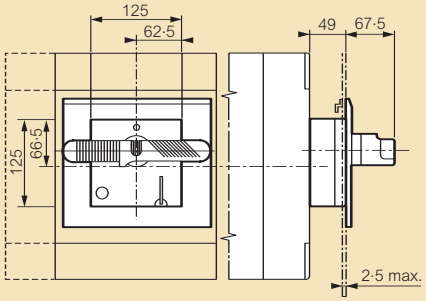
Fixed version, front terminals



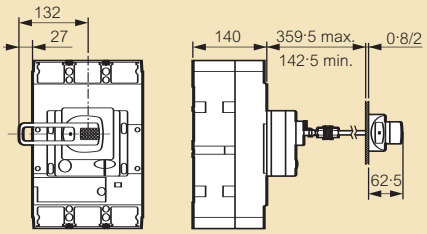
Terminal shields



Rotary handle direct on DPX



Vari-depth handle

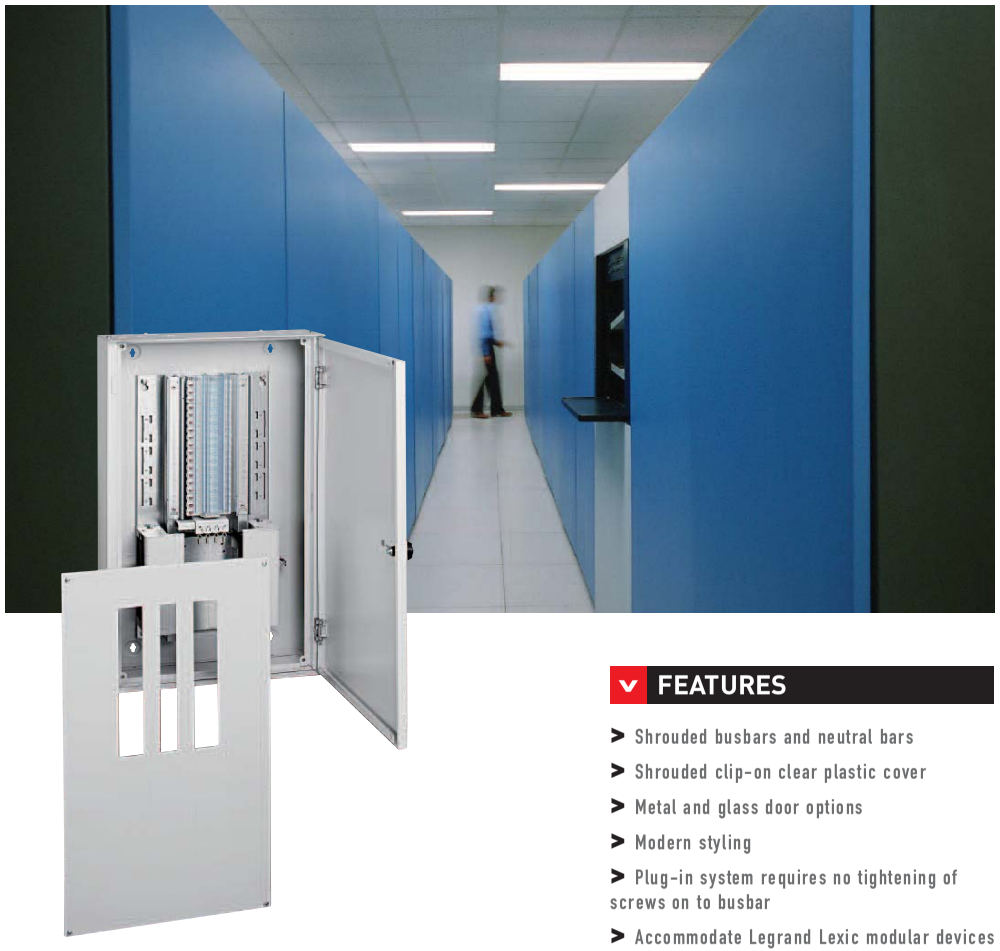


ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Uniquely innovative solutions

Legrand's type B distribution boards are available in standard and flexible versions. The flexible board is one of the most innovative products in the entire Legrand portfolio and can accommodate a mixture of 1 to 4 pole devices in a variety of configurations, saving both space and money as well as simplifying the whole process from design to installation.

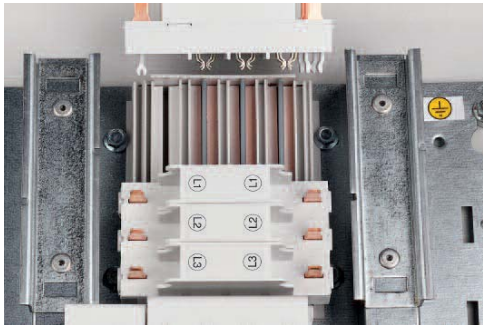
This flexibility allows you to customise boards to your exact requirements.



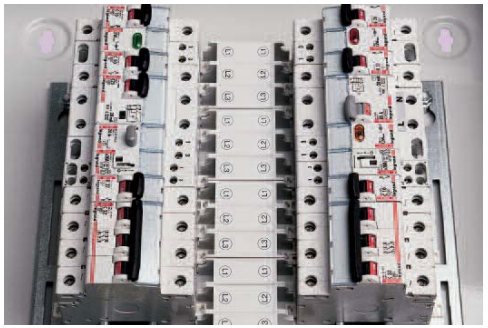
FEATURES

- Shrouded busbars and neutral bars
- Shrouded clip-on clear plastic cover
- Metal and glass door options
- Modern styling
- Plug-in system requires no tightening of screws on to busbar
- Accommodate Legrand Lexic modular devices

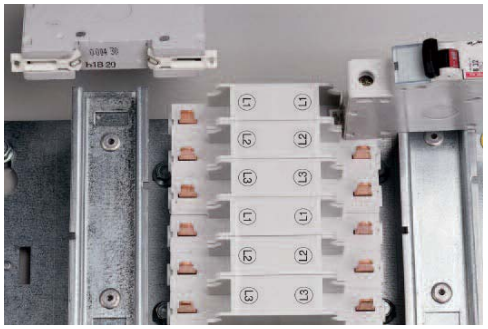
TYPE B FLEXIBLE BOARDS



■ Flexible connectors clip directly to the busbar



■ Busbar accommodates a mixture of 1 to 4 pole devices

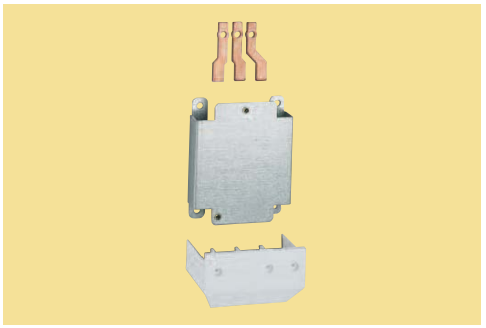


■ Plug-in system for outgoing devices

INCOMERS AND KITS



■ Selection of main incomers



■ Incomer kits make installation easy

OUTGOING DEVICES

> For the full range of Legrand Lexic MCBs and other outgoing devices, please refer to the isolation, protection, control and signalling section of the catalogue.



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Type B distribution boards

TYPE B DISTRIBUTION BOARDS 125 A STANDARD						
	Number of ways (triple pole)					
	4	6	8	12	16	24
Solid door	6071 00	6071 01	6071 02	6071 03	6071 04	6071 05
Glass door	6071 50	6071 51	6071 52	6071 53	6071 54	6071 55

TYPE B DISTRIBUTION BOARDS 125 A FLEXIBLE				
	Number of modules			
	24	36	48	72
Solid door	6071 06	6071 07	6071 08	6071 09
Glass door	6071 56	6071 57	6071 58	6071 59

INCOMING DEVICES AND KITS	
Switch disconnector 100 A 3P	0043 55 + 6072 00
Switch disconnector 100 A 4P	0043 75 + 6072 00
Switch disconnector 125 A 3P	0043 58 + 6072 00
Switch disconnector 125 A 4P	0043 78 + 6072 00
MCCB 125 A 3P	0250 21 + 6072 01
MCCB 125 A 4P	0250 29 + 6072 02

TYPE B DISTRIBUTION BOARDS 250 A STANDARD						
	Number of ways (triple pole)					
	4	6	8	12	16	24
Solid door	6071 10	6071 11	6071 12	6071 13	6071 14	6071 15
Glass door	6071 60	6071 61	6071 62	6071 63	6071 64	6071 65

TYPE B DISTRIBUTION BOARDS 250 A FLEXIBLE				
	Number of modules			
	24	36	48	72
Solid door	6071 16	6071 17	6071 18	6071 19
Glass door	6071 66	6071 67	6071 68	6071 69

INCOMING DEVICES AND KITS	
Trip free switch 250 A 3P	0252 98 + 6072 04
Trip free switch 250 A 4P	0252 99 + 6072 05
MCCB 250 A 3P	0252 26 + 6072 04
MCCB 250 A 4P	0252 36 + 6072 05

DX-H MCBs 10 KA						
	B curve		C curve		D curve	
Rating (A)	1P	3P	1P	3P	1P	3P
1	0066 91	0067 72	0068 52	0069 32	0065 75	0066 45
2	0066 92	0067 73	0068 53	0069 33	0065 76	0066 46
3	0066 93	0067 74	0068 54	0069 34	0065 77	0066 47
6	0066 95	0067 76	0068 56	0069 36	0065 79	0066 49
10	0066 97	0067 78	0068 58	0069 38	0065 81	0066 51
16	0067 00	0067 80	0068 60	0069 40	0065 83	0066 53
20	0067 01	0067 81	0068 61	0069 41	0065 84	0066 54
25	0067 02	0067 82	0068 62	0069 42	0065 85	0066 55
32	0067 03	0067 83	0068 63	0069 43	0065 86	0066 56
40	0067 04	0067 84	0068 64	0069 44	0065 87	0066 57
50	0067 05	0067 85	0068 65	0069 45	0065 88	0066 58
63	0067 06	0067 86	0068 66	0069 46	0065 89	0066 59

RCBOs SINGLE MODULE 10 KA	
	C curve
Rating (A)	1P
10	6064 10
16	6064 11
20	6064 12
25	6064 13
32	6064 14
45	6064 15

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

type B distribution boards
125 A busbar



6071 03 open with plate removed



6071 54

Dimensions (p. 352)

Conform to BS EN 60439-3
IP 40 - IK 08 (with door)
RAL 7035
Busbar rating : 125 A
Maximum rating for outgoing devices : 63 A

Type B 125 A triple pole - standard

Pack	Cat. Nos.	Solid door No. of ways
1	6071 00	4
1	6071 01	6
1	6071 02	8
1	6071 03	12
1	6071 04	16
1	6071 05	24
		Glass door
		No. of ways
1	6071 50	4
1	6071 51	6
1	6071 52	8
1	6071 53	12
1	6071 54	16
1	6071 55	24

Type B 125 A 1 to 4 pole(1) - flexible

		Solid door Max. No. of modules
1	6071 06	24
1	6071 07	36
1	6071 08	48
1	6071 09	72
		Glass door
		Max. No. of modules
1	6071 56	24
1	6071 57	36
1	6071 58	48
1	6071 59	72

type B distribution boards
250 A busbar



6071 10



6071 66 open with plate removed

Dimensions (p. 352)

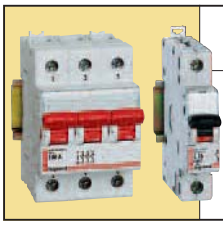
Conform to BS EN 60439-3
IP 40 - IK 08 (with door)
RAL 7035
Busbar rating : 250 A
Maximum rating for outgoing devices : 63 A

Type B 250 A triple pole - standard

Pack	Cat. Nos.	Solid door No. of ways
1	6071 10	4
1	6071 11	6
1	6071 12	8
1	6071 13	12
1	6071 14	16
1	6071 15	24
		Glass door
		No. of ways
1	6071 60	4
1	6071 61	6
1	6071 62	8
1	6071 63	12
1	6071 64	16
1	6071 65	24

Type B 250 A 1 to 4 pole(1) - flexible

		Solid door Max. No. of modules
1	6071 16	24
1	6071 17	36
1	6071 18	48
1	6071 19	72
		Glass door
		Max. No. of modules
1	6071 66	24
1	6071 67	36
1	6071 68	48
1	6071 69	72



Incoming devices	Page	Outgoing devices	Page
Switch disconnectors 100-125 A	356	MCBs 10 kA	358
MCCBs 125 A	328	RCBOs 10 kA	359
MCCBs 250 A	329		

(1) These products are supplied without connectors, which can be found on p. 349

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

type B distribution board accessories



6072 01



6071 81
with padlock
(not supplied)



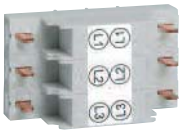
6071 70



6071 30



6071 75



6072 17

Pack	Cat. Nos.	Incomer kits
1	6072 00	Kit for incomer 3P/4P MCB switch disconnector and 4 pole RCD
1	6072 01	Kit for incomer MCCB 125 A 3P
1	6072 02	Kit for incomer MCCB 125 A 4P
1	6072 03	Kit for incomer MCCB 125 A 4P - earth leakage underneath
1	6072 04	Kit for incomer MCCB 250 A 3P
1	6072 05	Kit for incomer MCCB 250 A 4P
1	6072 06	Kit for incomer MCCB 250 A 4P - earth leakage underneath

		Accessories
1	6071 80	Handle key lock
1	6071 81	Handle for padlock

		Neutral and earth bars	Outgoing capacity	Terminal length (mm)
1	0048 42	Neutral bar	8 x 1·5 to 16 mm²	75
1	0048 32	Clean earth	8 x 1·5 to 16 mm²	75

Pack	Cat. Nos.	Connectors for flexible distribution board
8	6072 10	Connector - L1 phase
8	6072 11	Connector - L2 phase
8	6072 12	Connector - L3 phase
8	6072 13	Connector - neutral
4	6072 14	Connector - double pole (L1 + neutral)
4	6072 15	Connector - double pole (L2 + neutral)
4	6072 16	Connector - double pole (L3 + neutral)
8	6072 17	Connector - triple pole
6	6072 18	Connector - four pole
8	6071 83	Connector - blank

		Terminal blocks
1	6071 30	Terminal block 125 A
1	6071 31	Terminal block 250 A

		Boxes - height 200 mm
1	6071 70	Box for ⊔ rail products (max. 15 modules)
1	6071 72	Cable box top/bottom

		Gland plates
1	6071 75	Gland plate - plain
1	6071 76	Gland plate - with knockouts

		Insulated covers and spacers
1	6071 82	Blank MCB 10 module plate
5	0049 83	Insulated covers for 4 connector pins

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

type A distribution boards



6022 53

Dimensions (p. 352)

Conform to BS EN 60439-3
Enclosure 1·2 mm thick steel with polyester powder coated grey RAL 7035
Lockable with Ø5 mm padlock (not supplied)

Pack	Cat. Nos.	Metal with 100 A switch disconnector
		6 to 18 way
		No. of ways
1	6022 51	6
1	6022 52	10
1	6022 53	14
1	6022 54	18

		Accessory
		Grey blanking plate RAL 7035
20	0016 61	5 module, separable by single or half modules

Plexo boxes and terminal shield boxes
with rail



0017 08



0017 12



0013 01



0013 04

Dimensions (p. 353)

Pack	Cat. Nos.	Plexo boxes IP 55 - IK 08
		Self-extinguishing 750 °C Class II ⧈
		Temperature rating : –20 °C to +70 °C
		Supplied with rail, earth terminal and membrane glands
		Boxes
		Box and cover in moulded material
		Transparent, hinged, clip in to place cover
		Sealable with screw Cat. No. 0017 68 (accepts anti-tamper seal)
		Capacity in 17·5 mm modules | Number of rows
1	0017 02	2 (+1) | 1
1	0017 04	4 | 1
1	0017 06	6 | 1
1	0017 08	8 (+1) | 1
		Boxes with 12 modules per row
		Spacing between DIN rails : 125 mm
		Box and cover in moulded material
		Transparent hinged cover with 1/4 turn latch(es)
		Sealable with screw Cat. No. 0017 68 (accepts anti-tamper seal)
		Lockable using Cat. No. 0017 66 key lock
		Capacity in 17·5 mm modules | Number of rows
1	0017 11	12 + 1 | 1
1	0017 12	24 + 2 | 2
1	0017 13	36 + 3 | 3
		Accessories
1	0017 66	Lock and key for Cat. Nos. 0017 02 to 0017 13
1	0017 68	Set of 2 sealing screws
1	0017 69	Wall brackets (set of 4)
1	0017 71	Terminal support for 12 modules

		Terminal shield boxes IP 30 - IK 05
		Distribution boxes - 1 to 9 modules
		Conform to IEC 60439-3
		White RAL 9010
		Supplied with terminal block (box for 6 modules or more)
		Covers can be sealed and clipped on directly (except for box for 9 modules - sealing accessory and fixing screws required)
	Self-extinguishing White RAL 9010	Capacity in 17·5 mm modules | Dimensions (mm) Height x Width x Depth
10/100	0013 01	1 | 140 x 30 x 72
10/50	0013 02	2 | 140 x 50 x 72
10/40	0013 04	4 | 160 x 90 x 74
5/20	0013 06	6 | 160 x 128 x 74
1/5	0013 08	(8 + 1) | 180 x 190 x 83
10	0013 98	Membrane gland for boxes Cat. Nos. 0013 01 to 08

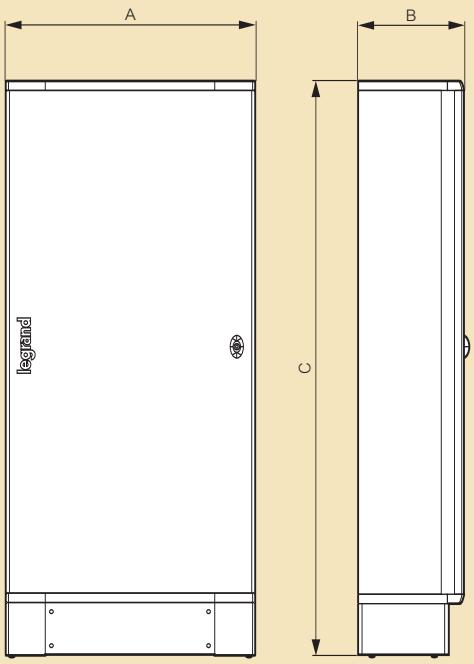


For MCBs 10 kA

see p. 358

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions (mm)



250 A incomer with 400 A busbar
125 A outgoing - 25 mm centres
triple pole

No. of ways	A	B	C
6	700	280	1 250
12	700	280	1 600(1)
16	700	280	1 800(1)

400 A incomer with 400 A busbar
125 A outgoing - 25 mm centres
triple pole

No. of ways	A	B	C
6	700	280	1 250
12	700	280	1 600(1)
16	700	280	1 800(1)

400 A incomer with 400 A busbar
250 A outgoing - 30 mm centres
triple pole

No. of ways	A	B	C
6	950	280	1 600(1)
12	950	280	1 800(1)
16	950	280	2 000(1)

630 A/800 A incomer with 800 A busbar
125 A outgoing - 25 mm centres
triple pole

No. of ways	A	B	C
6	700	280	1 600(1)
12	700	280	1 800(1)
16	700	280	2 000(1)

630 A/800 A incomer with 800 A busbar
250 A outgoing - 30 mm centres
triple pole

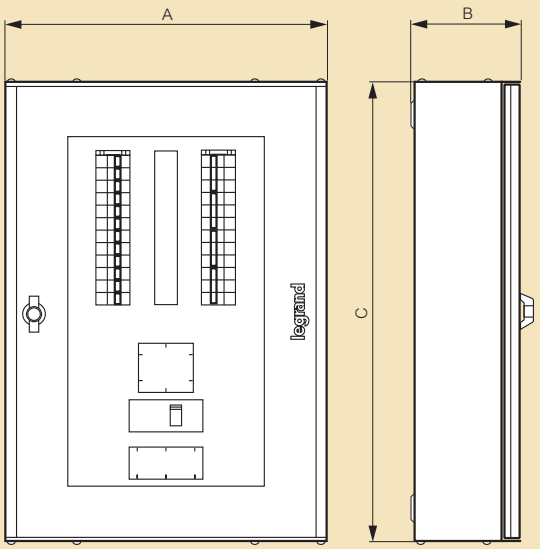
No. of ways	A	B	C
6	950	280	1 600(1)
12	950	280	1 800(1)
16	950	280	2 000(1)

(1) Including 150 mm for fitted plinth

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

type B distribution boards

■ Dimensions (mm)



125 A board
triple pole 125 A incomer

No. of ways	A	B	C
4	450	150	555
6	450	150	605
8	450	150	655
12	450	150	805
16	450	150	855
24	450	150	1 205

250 A board
triple pole 250 A incomer

No. of ways	A	B	C
4	450	150	555
6	450	150	705
8	450	150	755
12	450	150	855
16	450	150	955
24	450	150	1 205

125 A board
flexible 125 A incomer

No. of ways	A	B	C
24	450	150	655
36	450	150	805
48	450	150	855
72	450	150	1 205

250 A board
flexible 250 A incomer

No. of ways	A	B	C
24	450	150	755
36	450	150	855
48	450	150	955
72	450	150	1 205

125 A board
triple pole 125 A with earth leakage module

No. of ways	A	B	C
4	450	150	755
6	450	150	805
8	450	150	855
12	450	150	1 005
16	450	150	1 055
24	450	150	1 405

250 A board
triple pole 250 A with earth leakage module

No. of ways	A	B	C
4	450	150	855
6	450	150	905
8	450	150	955
12	450	150	1 055
16	450	150	1 155
24	450	150	1 405

125 A board
flexible 125 A with earth leakage module

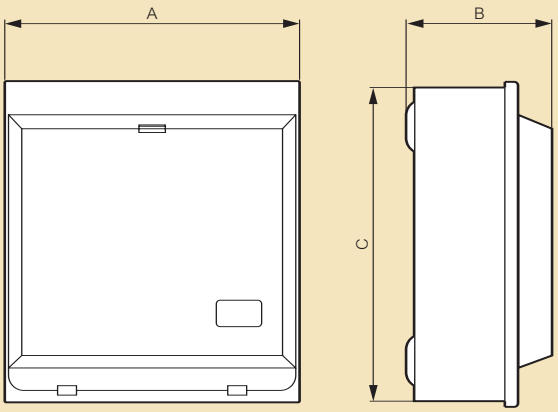
No. of ways	A	B	C
24	450	150	855
36	450	150	1 005
48	450	150	1 055
72	450	150	1 405

250 A board
flexible 250 A with earth leakage module

No. of ways	A	B	C
24	450	150	955
36	450	150	1 055
48	450	150	1 155
72	450	150	1 405

type A distribution boards

■ Dimensions (mm)



Standard

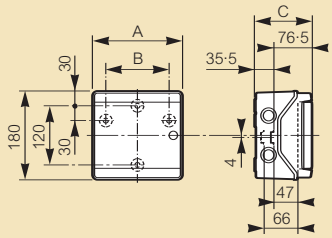
No. of ways	A	B	C
6	260	120	235
10	332	120	235
14	377	120	235
18	449	120	235

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Plexo boxes
with rail

■ Dimensions

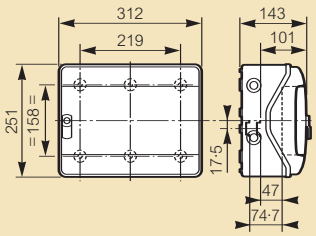
Cat. Nos. 0017 02/04/06/08



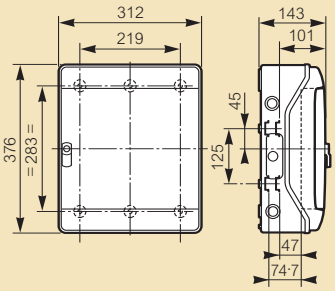
Cat. Nos.	A (mm)	B (mm)	C (mm)
0017 02	124	72	108
0017 04	142	90	115
0017 06	178	126	115
0017 08	232	180	115

Boxes with 12 modules per row

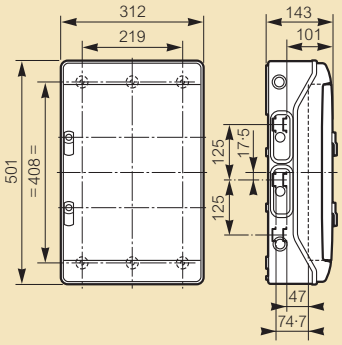
Cat. No. 0017 11



Cat. No. 0017 12



Cat. No. 0017 13



Number of membrane glands supplied

Cat. Nos.	Membrane glands		
	0919 03 for cable Ø 5 to 18 mm	0919 05 for cable Ø 6 to 22 mm	0919 06 for cable Ø 6 to 28 mm
0017 02	2	1	–
0017 04	2	1	–
0017 06	4	2	–
0017 08	5	2	1
0017 11	6	2	2
0017 12	11	3	2
0017 13	16	4	2

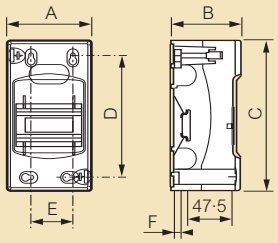
Number of knockouts : top and bottom

Cat. Nos.	PG				
	11-16	16	16-21	21	21-29
	Diameter (mm)				
	19-23	23	23-29	29	29-38
0017 02	–	1	–	1	–
0017 04	–	2	1	–	–
0017 06	2	2	1	–	–
0017 08	2	–	2	–	–
0017 11/12/13	7	7	1	–	2

terminal shield boxes
with rail

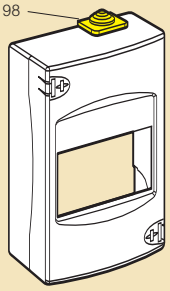
■ Dimensions

Cat. Nos. 0013 01/02/04/06/08



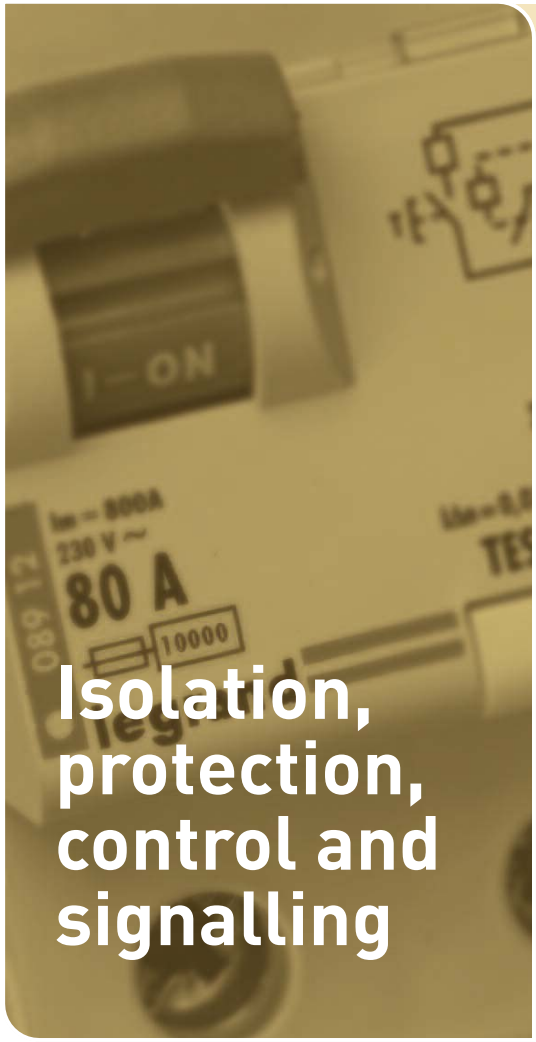
Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
0013 01	30	72	140	120	10	7
0013 02	50	72	140	115	25	7
0013 04	90	74	160	130	45	7
0013 06	128	74	160	125	80	7
0013 08	190	83	180	130	120	14·5

Cat. No. 0013 98



Entry via tube or cable

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Isolation, protection, control and signalling

Isolation, protection and signalling

- P. 356 Isolating switches
- P. 356 Changeover switches
- P. 357 DX RCDs
- P. 358 DX-H and DX-D MCBs
- P. 359 DX RCBOs
- P. 359 DX RCBO auxiliaries
- P. 360 DX technical information and curves
- P. 362 Discrimination/ selectivity tables
- P. 363 Push-buttons, control switches and indicators
- P. 363 Transformers and buzzers

Time switches and light control switches

- P. 365 AlphaRex digital for rail
- P. 368 MicroRex digital for rail
- P. 369 MaxiRex digital surface or panel mounting
- P. 370 MicroRex analogue for rail
- P. 371 MaxiRex analogue surface or panel mounting
- P. 371 EconoRex analogue surface or panel mounting
- P. 372 AstroRex light control time switches
- P. 374 Light control switches digital for rail

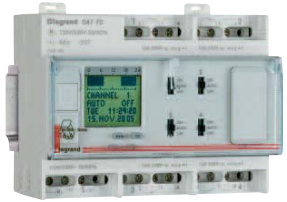
Power contactors and measuring electrical energy

- P. 375 Power contactors
- P. 377 Measuring electrical energy
- P. 378 Central measuring unit
- P. 378 Hour counters
- P. 380 Modular DIN rail equipment dimensions

Fuse carriers and fuses

- P. 381 Modular and SP fuse carriers
- P. 382 Modular fuse carrier and device accessories
- P. 383 Cylindrical cartridge fuses
- P. 385 Blade type cartridge fuses
- P. 387 Cartridge fuse dimensions

New in 2007



AlphaRex time switch

Digital for rail (p. 365)



MicroRex™ time switch

Analogue for rail (p. 370)



AstroRex light control time switch

Digital for rail (p. 372)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

isolating switches


0043 22


0043 36


0043 55

Dimensions (p. 380)

Conform to IEC 60669-1
Breaking capacity AC 22 A according to BS EN 60947-3
Double break contacts

Pack	Cat. Nos.	Isolating switches	Nominal rating (A)	Number of 17·5 mm modules
		Single pole - 230/400 V~		
10	0043 02		20	1
10	0043 05		32	1
10	0043 10		63	1
5	0043 14		100	1
		Double pole - 400 V~(1)		
10	0043 22		20	1
10	0043 25		32	1
5	0043 31		63	2
5	0043 36		100	2
2	0043 38		125	2
		Double pole with indicator - 250 V~ Supplied with lamp		
10	0043 23		20	1
10	0043 26		32	1
		Triple pole - 400 V~(1)		
5	0043 42		20	2
5	0043 45		32	2
3	0043 50		63	3
3	0043 55		100	3
3	0043 58		125	3
		Four pole - 400 V~(1)		
5	0043 62		20	2
5	0043 65		32	2
2	0043 70		63	4
2	0043 75		100	4
2	0043 78		125	4

Pack	Cat. Nos.	Accessories
2	0044 42	Locking attachment for Ø 4 mm and Ø 6 mm padlocks
1/3	0044 43	Padlocks Ø 4 mm

changeover switches


0043 82


0043 83

Dimensions (p. 380)

Conform to IEC 60669-1
Breaking capacity AC 22 A according to BS EN 60947-3

Pack	Cat. Nos.	Changeover switches	Nominal rating (A)	Number of 17·5 mm modules
		Two way - 250 V~		
10	0043 82		20	1
		Double two way - 400 V~		
5	0043 83		20	2
		Two way with centre point - 250 V~		
10	0043 85		20	1

(1) Cat. Nos. 0043 31/36/55/75 have red handles

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DX™ RCDs
residual current devices - types AC and A


0089 12


0089 18


0090 13

Dimensions (p. 380)

Conform to BS EN 61008-1

Double pole - 230 V~

Pack	Cat. Nos.		Nominal rating (A)	Number of 17·5 mm modules
	Type AC	Type A		
			10 mA	
1	0089 06	0090 53	16	2
			30 mA	
1	0089 09	0090 56	25	2
1	0089 10	0090 57	40	2
1	0089 11	0090 58	63	2
1	0089 12	0090 59	80	2
1	6027 10		100	2
			100 mA	
1	0089 15		25	2
1	0089 16		40	2
1	0089 17		63	2
1	0089 18		80	2
	Type AC		**100 mA discriminating**	
1	6027 11		100	2
	Type AC		**300 mA**	
1	0089 27	0090 74	25	2
1	0089 28	0090 75	40	2
1	0089 29	0090 76	63	2
1	0089 30	0090 77	80	2
	Type AC	Type A	**300 mA discriminating**	
1	0089 35	0090 82	63	2

Four pole - 400 V~ neutral on right

Pack	Cat. Nos.		Nominal rating (A)	Number of 17·5 mm modules
	Type AC	Type A		
			30 mA	
1	0089 93	0091 40	25	4
1	0089 94	0091 41	40	4
1	0089 95	0091 42	63	4
1	0089 96	0091 43	80	4
			100 mA	
1	0089 99	0091 46	25	4
1	0090 00	0091 47	40	4
1	0090 01	0091 48	63	4
1	0090 02	0091 49	80	4
			300 mA	
1	0090 11	0091 58	25	4
1	0090 12	0091 59	40	4
1	0090 13	0091 60	63	4
1	0090 14	0091 61	80	4
			500 mA	
1	0090 23		25	4
1	0090 24	0091 71	40	4
1	0090 25	0091 72	63	4
1	0090 26	0091 73	80	4
	Type AC	Type A	**300 mA discriminating**	
1	0090 18	0091 65	40	4
1	0090 19	0091 66	63	4

Four pole - 400 V~ neutral on left

		Nominal rating (A)	Number of 17·5 mm modules
	Type AC		
		30 mA	
1	0086 96	80	4
		300 mA	
1	0087 14	80	4

Test voltage

	RCD	RCD
	2 P	4 P
Min.	135 V (10/30/300 mA)	195 V (30 mA) 230 V (100 mA) 215 V (300 mA) 295 V (500 mA)
Max.	250 V	440 V

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DX-H MCBs - 10 kA

thermal-magnetic MCBs up to 125 A
type B and C curves


0068 60


0069 20


0070 00

Technical information (p. 360)
Dimensions (p. 380)

Breaking capacity : 10 kA to BS EN 60898-1
12·5 kA up to 25 kA to BS EN 60947-2 - 400 V~

Single pole 230/400 V~

Pack	Cat. Nos.		Nominal rating (A)	Number of 17·5 mm modules
	B curve	C curve		
1	0066 91	0068 52	1	1
1	0066 92	0068 53	2	1
1	0066 93	0068 54	3	1
1	0066 95	0068 56	6	1
10	0066 97		10	1
10		0068 58	10	1
10	0067 00		16	1
10		0068 60	16	1
1	0067 01	0068 61	20	1
1	0067 02	0068 62	25	1
1	0067 03	0068 63	32	1
1	0067 04	0068 64	40	1
1	0067 05	0068 65	50	1
1	0067 06	0068 66	63	1
1		0063 83	80	1·5

Double pole 400 V~

	B curve	C curve		
1	0067 52	0069 12	1	2
1	0067 53	0069 13	2	2
1	0067 54	0069 14	3	2
1	0067 56	0069 16	6	2
5	0067 58		10	2
1		0069 18	10	2
5	0067 60		16	2
1		0069 20	16	2
1	0067 61	0069 21	20	2
1	0067 62	0069 22	25	2
1	0067 63	0069 23	32	2
1	0067 64	0069 24	40	2
1	0067 65	0069 25	50	2
1	0067 66	0069 26	63	2
1		0064 75	80	3
1		0064 76	100	3
1		0064 77	125	3

Triple pole 400 V~

	B curve	C curve		
1	0067 72	0069 32	1	3
1	0067 73	0069 33	2	3
1	0067 74	0069 34	3	3
1	0067 76	0069 36	6	3
1	0067 78	0069 38	10	3
1	0067 80	0069 40	16	3
1	0067 81	0069 41	20	3
1	0067 82	0069 42	25	3
1	0067 83	0069 43	32	3
1	0067 84	0069 44	40	3
1	0067 85	0069 45	50	3
1	0067 86	0069 46	63	3
1		0064 95	80	4·5
1		0064 96	100	4·5
1		0064 97	125	4·5

Four pole 400 V~

	B curve	C curve		
1	0068 32	0069 92	1	4
1	0068 33	0069 93	2	4
1	0068 34	0069 94	3	4
1	0068 36	0069 96	6	4
1	0068 38	0069 98	10	4
1	0068 40	0070 00	16	4
1	0068 41	0070 01	20	4
1	0068 42	0070 02	25	4
1	0068 43	0070 03	32	4
1	0068 44	0070 04	40	4
1	0068 45	0070 05	50	4
1	0068 46	0070 06	63	4
1		0065 70	80	6
1		0065 71	100	6
1		0065 72	125	6

DX-D MCBs - 10 kA

thermal-magnetic MCBs up to 125 A
type D curve


0066 33


0066 56


0066 71

Technical information (p. 360)
Dimensions (p. 380)

Breaking capacity : 6 kA to BS EN 60898-1 up to 63 A - 400 V~
10 kA to BS EN 60898-1 80 A to 125 A
15 kA to BS EN 60947-2 up to 32 A - 400 V~
10 kA to BS EN 60947-2 40 A to 125 A - 400 V~
Magnetic adjusted between 10 and 14 In

Single pole 230/400 V~

Pack	Cat. Nos.	Nominal rating (A)	Number of 17·5 mm modules
	D curve		
1	0065 75	1	1
1	0065 76	2	1
1	0065 77	3	1
1	0065 78	4	1
1	0065 79	6	1
1	0065 81	10	1
1	0065 83	16	1
1	0065 84	20	1
1	0065 85	25	1
1	0065 86	32	1
1	0065 87	40	1
1	0065 88	50	1
1	0065 89	63	1

Double pole 400 V~

	D curve		
1	0066 25	1	2
1	0066 26	2	2
1	0066 27	3	2
1	0066 28	4	2
1	0066 29	6	2
1	0066 31	10	2
1	0066 33	16	2
1	0066 34	20	2
1	0066 35	25	2
1	0066 36	32	2
1	0066 37	40	2
1	0066 38	50	2
1	0066 39	63	2
1	0066 40	80	3
1	0066 41	100	3
1	0066 42	125	3

Triple pole 400 V~

	D curve		
1	0066 45	1	3
1	0066 46	2	3
1	0066 47	3	3
1	0066 48	4	3
1	0066 49	6	3
1	0066 51	10	3
1	0066 53	16	3
1	0066 54	20	3
1	0066 55	25	3
1	0066 56	32	3
1	0066 57	40	3
1	0066 58	50	3
1	0066 59	63	3
1	0066 60	80	4·5
1	0066 61	100	4·5
1	0066 62	125	4·5

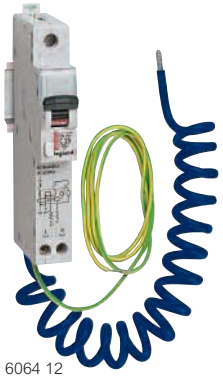
Four pole 400 V~

	D curve		
1	0066 65	1	4
1	0066 66	2	4
1	0066 67	3	4
1	0066 68	4	4
1	0066 69	6	4
1	0066 71	10	4
1	0066 73	16	4
1	0066 74	20	4
1	0066 75	25	4
1	0066 76	32	4
1	0066 77	40	4
1	0066 78	50	4
1	0066 79	63	4
1	0066 80	80	6
1	0066 81	100	6
1	0066 82	125	6

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DX™ RCBOs - 10 kA and auxiliaries

up to 63 A - type AC
type B and C curves


6064 12


0078 86


0079 19


0079 80


0073 50


0073 54

Dimensions (p. 380)

Conform to BS EN 61009-1
Breaking capacity : 10 kA to BS EN 61009-1
10 kA to BS EN 60947-2 (except for single pole + neutral - 6 kA)

Single pole + neutral - 230 V~ (1), (2)

Pack	Cat. Nos. Type AC C curve	Nominal rating (A)	Number of 17·5 mm modules
		30 mA	
1	6064 10	10	1
1	6064 11	16	1
1	6064 12	20	1
1	6064 13	25	1
1	6064 14	32	1
1	6064 15	45	1

Single pole + neutral - 230 V~ (3), (4)

Neutral on right

Pack	Type AC B curve	Type AC C curve	Nominal rating (A)	Number of 17·5 mm modules
			10 mA	
1		0078 79	16	2
			30 mA	
1		0078 81	3	2
1	0077 77	0078 83	6	2
1	0077 78	0078 84	10	2
1	0077 80	0078 86	16	2
1	0077 81	0078 87	20	2
1		0078 88	25	2
1	0077 83	0078 89	32	2
1	0077 84	0078 90	40	2
			300 mA	
1		0078 94	6	2
1		0078 95	10	2
1		0078 97	16	2
1		0078 98	20	2
1		0078 99	25	2
1		0079 00	32	2
1		0079 01	40	2

Double pole - 230/400 V~ (4)

Pack	Type AC C curve	Nominal rating (A)	Number of 17·5 mm modules	Breaking capacity IEC 60947-2 (kA) 400 V~	230 V~
		10 mA			
1	0077 45	10	4	10	25
1	0077 46	16	4	10	25
1	0077 47	20	4	10	25
		30 mA			
1	0079 11	10	4	10	25
1	0079 19	16	4	10	25
1	0079 20	20	4	10	25
1	0079 21	25	4	10	25
1	0079 22	32	4	10	25
1	0079 29	40	4	10	25
1	0079 30	50	4	10	25
1	0079 31	63	4	10	25

(1) Single pole with solid unswitched neutral
(2) Suitable for type B standard or flexible boards and type A boards
(3) Single pole with switched neutral
(4) Suitable for type B flexible boards only

Four pole - 400 V~ (2)

Pack	Cat. Nos. Type AC C curve	Nominal rating (A)	Number of 17·5 mm modules	Breaking capacity IEC 60947-2 (kA) 400 V~	230 V~
		30 mA			
1	0079 62	10	4	10	10
1	0079 64	16	4	10	10
1	0079 65	20	4	10	10
1	0079 66	25	4	10	10
1	0079 67	32	4	10	10
1	0080 13	40	7	10	25
1	0080 14	50	7	10	25
1	0080 15	63	7	10	25
		300 mA			
1	0079 75	10	4	10	10
1	0079 77	16	4	10	10
1	0079 78	20	4	10	10
1	0079 79	25	4	10	10
1	0079 80	32	4	10	10
1	0080 31	40	7	10	25
1	0080 32	50	7	10	25
1	0080 33	63	7	10	25

Auxiliaries for MCBs and residual current devices

Clip on the left-hand side of the MCB (maximum 3)
Allow insertion of the supply busbar at the top
Auxiliaries common to DX, and DX-H MCBs and DX residual current devices
(for double pole RCDs Cat. No. 0073 52 must be used first, see p. 357)

Pack	Cat. Nos.	**Signalling auxiliaries**	Number of 17·5 mm modules
1	0073 50	Auxiliary changeover switch, 6 A - 250 V~ Indicates the position of the contacts	0·5
1	0073 51	Fault signalling changeover switch, 6 A - 250 V~ Indicates tripping of the MCB at a fault	0·5
1	0073 53	Auxiliary changeover switch, 6 A - 250 V which can be modified to a fault signalling switch	0·5
1	0073 54	Auxiliary changeover switch, 6 A - 250 V + fault signalling switch, can be modified to 2 auxiliary changeover switches	1

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DX-E, DX, DX-H, DX-D MCBs

■ Technical information

- Maximum voltage : 240 V - 415 V~ ± 10 %
- Maximum voltage : 80 V⎓ per pole
- Insulation voltage : 500 V~
- Dielectric : 2 500 V~

Power dissipated in W per pole at In

In A	1	2	3	4	6	10	16	20	25	32	40	50	63	80	100	125
Type B	2·1	2·1	2·4	2·5	1·1	1·1	1·5	1·7	2·4	3·1	4	4·5	5·5	-	-	-
Type C	2·1	2·1	2·4	2·5	1·1	1·1	1·5	1·7	2·4	3·1	4	4·5	5·5	8·8	7·8	15·6
Type D	2·1	2·1	2·4	2·5	1·1	1·1	1·5	1·7	2·4	3·1	4	4·5	5·5	8·8	7·8	15·6

■ Mechanical characteristics

Endurance : 20 000 mechanical switching operations
10 000 on load switching operations at In x cos φ 0·9

	In ≤63 A	In ≥80 A
Connection cross-sections (in mm²)	25 mm² flexible cables 35 mm² rigid cables	50 mm² flexible cable 70 mm² rigid cable
Applied connection torque	2·5 Nm	3 Nm

Derating according to ambient temperature (In A)

In at 30 °C	Ambient temperature 0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
1	1·1	1·07	1·03	1	0·97	0·93	0·90
2	2·2	2·1	2·06	2	1·94	1·86	1·80
3	3·3	3·2	3·1	3	2·9	2·8	2·6
4	4·4	4·2	4·1	4	3·9	3·8	3·6
6	6·6	6·4	6·2	6	5·8	5·5	5·4
10	11	10·7	10·3	10	9·7	9·3	9·0
16	18	17·3	16·6	16	15·4	14·7	14·1
20	22·4	21·6	20·8	20	19·2	18·4	17·6
25	28·3	27·2	26	25	24	22·7	21·7
32	36·2	34·9	33·3	32	30·7	29·1	27·8
40	46	44	42	40	38	36	34
50	57·5	55	52·5	50	47·5	45	42·5
63	73·1	69·9	66·1	63	59·8	56·1	52·9
80	91	88	84	80	76	72	69
100	114	110	105	100	95	90	86
125	142	137	131	125	119	113	108

■ Technical information

Derating of MCBs according to the number of adjacent MCBs

Number of adjacent MCBs	from 1 to 3	from 4 to 6	from 7 to 9	over 10
Coefficient	1	0·8	0·7	0·6

■ MCB supplementary data (6 kA and 10 kA)

Terminal depth : 14 mm
Terminals protected to IP 20
Maximum terminal torque : 3 Nm
(recommended : 2·5 Nm)

Enclosure material : polyester
self-extinguishing at 960 °C

Average weight per pole : 0·160 kg

Supply : can be supplied from the top or bottom

Padlockable in either ON or OFF position

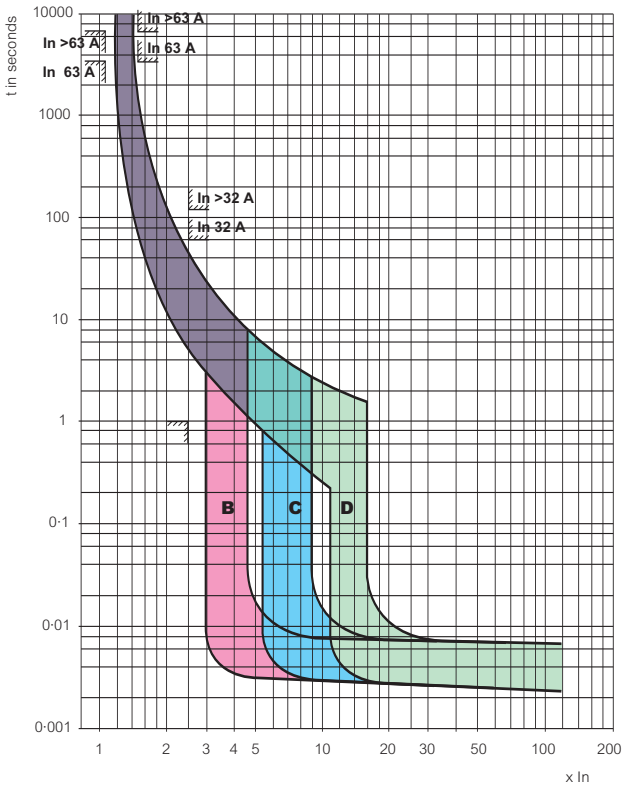
Operation with DC volt supply : up to a maximum of 80 V DC per pole – for voltages above 80 V DC use multipole devices wired IN SERIES (e.g. two pole 160 V⎓ maximum)

Positive contact indication in accordance with the IEE 16th Edition Wiring Regulations

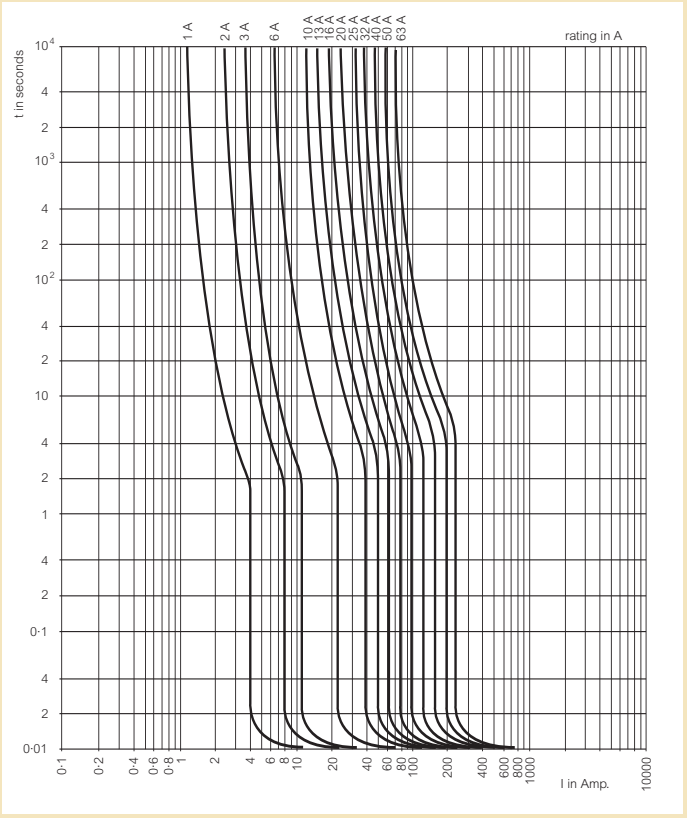
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

DX-E, DX, DX-H, DX-D MCBs
tripping and operating curves

■ MCB tripping curves

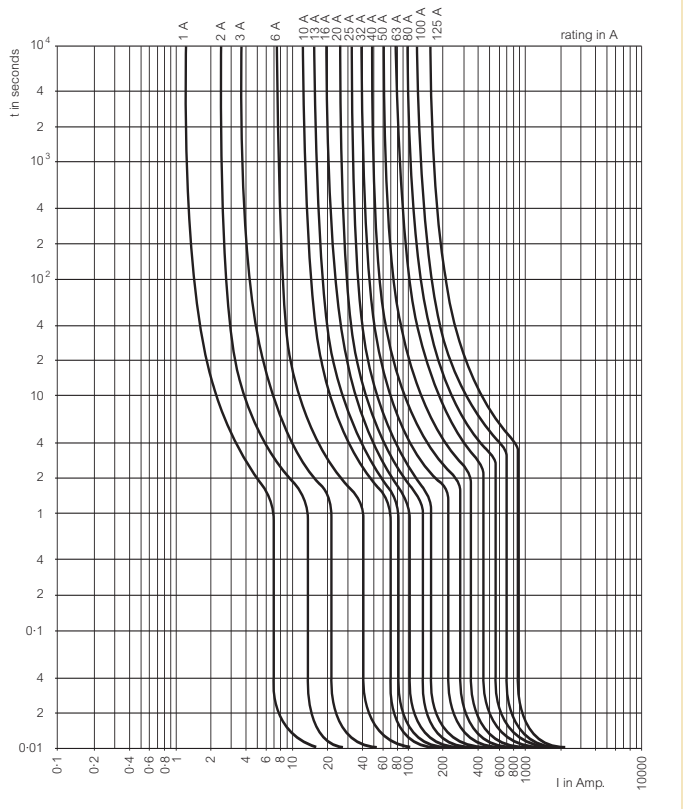


■ Operating curves
DX-E, DX, DX-H type B from 1 A to 63 A



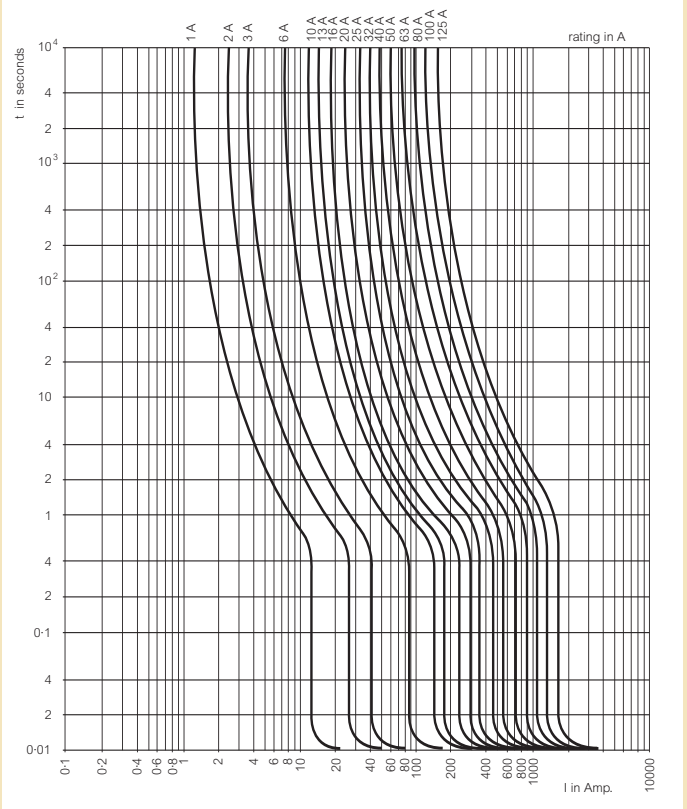
Standard BS EN 60898 defines the type B magnetic between 3 and 5 In

■ Operating curves
DX-E, DX, DX-H type C from 1 A to 63 A and DX-H from 1 to 125 A



Standard BS EN 60898 defines the type C magnetic between 5 and 10 In

■ Operating curves
DX-D type D from 1 A to 125 A



Standard BS EN 60898 defines the type D magnetic between 10 and 20 In

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

discrimination/selectivity tables - average values of selectivity limits (A)

MCBs/MCBs

MCBs upstream

MCBs downstream		DX-E, DX, DX-H C curve											DX-D D curve										DX-E, DX, DX-H B curve							
		10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100A	125A	10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A	80 A	100 A	125A	10 A	16 A	20 A	25 A	32 A	40 A	50 A	63 A
DX-E, DX, DX-H C curve	1 to 4 A	75	120	150	187	240	300	375	472	480	600	750	120	192	240	300	384	480	600	756	800	T	T	40	64	80	100	128	160	200	252
	6 A	75	120	150	187	240	300	375	472	480	600	750	120	192	240	300	384	480	600	756	800	1200	1500		64	80	100	128	160	200	252
	10 A		120	150	187	240	300	375	472	480	600	750		192	240	300	384	480	600	756	800	1200	1500				100	128	160	200	252
	16 A			150	187	240	300	375	472	480	600	750			240	300	384	480	600	756	800	1200	1500						160	200	252
	20 A				187	240	300	375	472	480	600	750				300	384	480	600	756	800	1200	1500							200	252
	25 A					240	300	375	472	480	600	750					384	480	600	756	800	1200	1500								252
	32 A						300	375	472	480	600	750						480	600	756	800	1200	1500								
	40 A							375	472	480	600	750							600	756	800	1200	1500								
	50 A								472	480	600	750								756	800	1200	1500								
	63 A									480	600	750									800	1200	1500								
	80 A										600	750										1200	1500								
	100 A											750											1500								
	125 A																														
DX-D D curve	1 to 4 A	75	120	150	187	240	300	375	472	480	600	750	120	192	240	300	384	480	600	756	800	T	T	40	64	80	100	128	160	200	252
	6 A		120	150	187	240	300	375	472	480	600	750	120	192	240	300	384	480	600	756	800	1200	1500				100	128	160	200	252
	10 A			150	187	240	300	375	472	480	600	750		192	240	300	384	480	600	756	800	1200	1500						160	200	252
	16 A					240	300	375	472	480	600	750			240	300	384	480	600	756	800	1200	1500								252
	20 A						300	375	472	480	600	750				300	384	480	600	756	800	1200	1500								
	25 A							375	472	480	600	750					384	480	600	756	800	1200	1500								
	32 A								472	480	600	750						480	600	756	800	1200	1500								
	40 A									480	600	750							600	756	800	1200	1500								
	50 A										600	750								756	800	1200	1500								
	63 A										600	750									800	1200	1500								
	80 A																					1200	1500								
	100 A																						1500								
	125 A																														
DX-E, DX, DX-H B curve	1 to 6 A	75	120	150	187	240	300	375	472	480	600	750	120	192	240	300	384	480	600	756	800	1200	1500	40	64	80	100	128	160	200	252
	10 A		120	150	187	240	300	375	472	480	600	750		192	240	300	384	480	600	756	800	1200	1500		64	80	100	128	160	200	252
	16 A			150	187	240	300	375	472	480	600	750			240	300	384	480	600	756	800	1200	1500			80	100	128	160	200	252
	20 A				187	240	300	375	472	480	600	750				300	384	480	600	756	800	1200	1500				100	128	160	200	252
	25 A					240	300	375	472	480	600	750					384	480	600	756	800	1200	1500					128	160	200	252
	32 A						300	375	472	480	600	750						480	600	756	800	1200	1500						160	200	252
	40 A							375	472	480	600	750							600	756	800	1200	1500							200	252
	50 A								472	480	600	750								756	800	1200	1500								252
	63 A									480	600	750									800	1200	1500								

T : total selectivity up to MCB breaking capacity according to IEC 60947-2

Upstream fuse

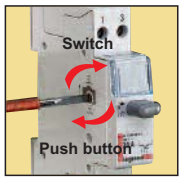
MCBs downstream		gG type							
		32 A	40 A	50 A	63 A	80 A	100 A	125 A	160 A
DX-E, DX, DX-H B and C curves	0·5 to 6 A	1600	1900	2500	4000	4600	11000	25000	T
	8 A	1600	1900	2500	4000	4600	11000	25000	T
	10 A		1600	2200	3200	3600	7000	11000	20000
	16 A		1400	1800	2600	3000	5600	8000	15000
	20 A		1200	1500	2200	2500	4600	6300	10000
	25 A			1300	2000	2200	4100	5500	8000
	32 A			1200	1700	1900	3500	4500	7000
	40 A					1700	3000	4000	5000
	50 A					1600	2600	3500	4500
	63 A						2400	3300	4500
	80 A						3000	6000	8000
	100 A							4000	5000
	125 A								4000

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

push buttons, control switches and indicators



0044 68



Push buttons transformed into switches



0044 88



0031 43

Dimensions (p. 380)

Conform to IEC 60669-1
Breaking capacity AC 12 A according to IEC 60947-5-1
Supplied in push button position
Can be converted to control switches
Accepts insertion of supply busbars

Pack	Cat. Nos.	Push buttons and control switches 20 A - 250 V~	Number of 17·5 mm modules
		Single function	
10	0044 53	1 N/O	1
10	0044 54	1 N/C	1
10	0044 55	2 N/O	1
10	0044 58	1 N/O + 1 N/C	1
		Dual function + indicator	
10	0044 63	1 N/O + green indicator(1)	1
10	0044 64	1 N/C + red indicator(1)	1
10	0044 68	1 N/O (green) + 1 N/C (red)	1

Pack	Cat. Nos.	Indicators - 250 V~	Number of 17·5 mm modules
		Supplied with replaceable diffuser and lamp E10 - 230 V~ Allow supply busbar to be inserted	
		Single	
10	0044 83	Green	1
10	0044 84	Red	1
10	0044 85	Orange	1
10	0044 86	Blue	1
10	0044 87	Colourless	1
		Double	
10	0044 88	Green + red	1
		Three phase voltage indicator Supplied with 230/400 V~ non-replacement lamps	
2	0031 43	3 colourless neon lamps	0·5

Pack	Cat. Nos.	Accessories
		Replacement lamps E10 - 1·2 W
10	0044 32	8/12 V incandescent
10	0044 33	24 V incandescent
10	0044 36	230 V neon
10	0044 37	230 V fluo for blue and green diffusers

(1) Supplied with 230 V~ E10 lamps

transformers and buzzers



0042 20



0042 51

Dimensions (p. 380)

Transformers protected against overloads and short-circuits
In the event of an overload, switch off the power supply and allow the transformer to cool down before switching on again
Wall or rail ⎵ mounted

Pack	Cat. Nos.	Bell transformers with label holders	Depth 60 mm	Secondary	Rating	Power	Number of 17·5 mm modules
		Conform to IEC/EN 61558-2-8 standard Transformers protected against overloads and short-circuits Possibility for supply busbars to run through (Cat. Nos. 0042 20/25)					
		230 V / 8 V					
1	0042 20			8 V~	0·5 A	4 VA	2
		230 V / 8 V - 12 V					
1	0042 25			8/12 V~	1/0·66 A	8 VA	2
		230 V / 24 V - 12 V					
1	0042 37			24/12 V~	1/1·5 A	24/18 VA	4

Pack	Cat. Nos.	Safety transformers	Depth 68 mm	P (VA)	No-load loss (W)	Voltage % drop Cos φ = 1	Efficiency % Cos φ = 1	Ucc (%)	I (A) primary loaded	Number of 17·5 mm modules
		Conform to IEC/EN 61558-2-6 standard								
		230 V / 12 or 24 V (per 2 x 12 V coupling for Cat. Nos. 0042 53/54)								
1	0042 51			16	2·5	34·6	60	27·5	0·099	4
1	0042 52			25	2·5	29	66	23·3	0·142	4
1	0042 53			40	4	17·9	68	14·4	0·22	5
1	0042 54			63	4	15·7	75	13·6	0·33	5

Pack	Cat. Nos.	Buzzers	Voltage (V~)	Power (VA)	Consum. (mA)	P(1) (dB)	Number of 17·5 mm modules
		50 Hz AC Connection by screw terminals, equipped with label holder **Caution :** remove lamps from illuminated push buttons when used with Cat. No. 0041 11					
5	0041 11		24	4	180	73	1
10	0041 13		230	4	21	73	1

(1) Acoustic power at 1 m

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Move with the times

AlphaRex time switches make programming even easier than ever before. Units can now be set up by following simple on-screen instructions or, alternatively, using the data key which can be programmed via your PC using its very own USB adaptor.





FEATURES

- Set up, save, edit and manage your settings using the advanced PC programming software and USB adaptor
- 24/7 display shows stored programmes at a glance
- Clear back lit display and on-screen instructions for easy identification of status
- 4 function keys for simple programming if not using data key
- Finger protection terminals with screws
- Exceptional accuracy of +/- 0·2 seconds per day

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

AlphaRex time switches
digital for rail


0047 61


0047 72


0047 73


0047 70


0047 81

Technical information (p. 366-367)

Conform to EN 60730-1 and EN 60730-2-7
LCD digital display and text based programming for easier use
Mount on DIN rail EN 60715

Pack	Cat. Nos.	AlphaRex
		Accuracy : ± 0·2 second per day Programmable for 1 minute minimum at 1 minute steps either as 24 hour or 7 day using preset groups of days : Mon-Sun, Mon-Fri, Sat-Sun or individual days Programmable either directly on the time switch or via a PC with the Legrand software and data key Data keys can also be used to transfer programmes from one unit to another or used to store data and provide a security back up 1 programme consists of 1 ON and 1 OFF time and the allocation of any day of the week or a combination of days, plus the selected channel on the two channel version **Additional features :** Built in hour counter up to 65535 hours with reset Back lit display and buttons for easy working during set up Lithium high temperature battery provides a 6 year working reserve EEPROM memory keeps your programme stored indefinitely Optional automatic summer/winter time change Manual override (permanent ON or OFF until manual reset) Automatic override, changes contact position until next automatic ON time (ON becomes OFF; OFF becomes ON, till next programmed ON) Sealable transparent cover with or without data key inserted Holiday and random security programmes D21 version includes a PULSE function providing up to 84 starts from 1 second to 59 mins 59 secs duration
		AlphaRex D21 24 hour or 7 day, 56 programmes, 1 channel 1 x 250 V 50 Hz, 16 A voltage free c/o contact
1	0047 61	230 V 50/60 Hz supply voltage
1	0047 63	24 V 50/60 Hz or DC supply voltage
		AlphaRex D22 24 hour or 7 day, 2 x 28 programmes, 2 channels 2 x 250 V 50 Hz, 16 A voltage free c/o contacts
1	0047 71	230 V 50/60 Hz supply voltage
1	6047 72	24 V 50/60 Hz or DC supply voltage

Pack	Cat. Nos.	AlphaRex DY64
		Working reserve : 5 years Accuracy : ±0·2 seconds per day Programmable for 1 second min., either direct or via a PC using the data key and USB adaptor with software (see below) Block programming in preset groups of days or individual days Includes optional Astro function, sunrise - sunset with offset for lighting control A programme consists of an ON/OFF time and their assignment to certain days 84 programmes per channel possible : • 28 weekly/astronomical programmes • 28 yearly programmes • 28 exceptional programmes **Additional features :** Backlit display and buttons Programmes are stored in an EEPROM Programmes are shown as a weekly matrix on the display Optional automatic summer/winter time change (daylight saving) Manual override (ON/OFF/AUTO) for each channel on the front face Manual switching Sealing cover (lead seal not supplied), with or without the data key inserted Calculation of sunrise and sunset by Astro function, using programming date, time and local co-ordinates - does not require an external light sensor The Astro switching times can be adjusted asymmetrically for up to 120 minutes One channel includes an input control enabling remote activation irrespective of the programme setting Option to create a cyclical repetitive programme on channel 1
		AlphaRex DY64 – 6 modules 336 programmes total, 4 channels 16 A – 230 V∿ 4 SPDT voltage free contacts, supplied with DY64 data key and software version 3.0
1	0047 70	120/230 V∿ 50/60 Hz supply voltage

Pack	Cat. Nos.	Accessories
		Data key
1	0047 72	Enables programmes to be stored and/or transferred from one time switch to another When used with the USB adaptor (Cat. No. 0047 73 below) the data key can be programmed via a PC
		USB adaptor with software
1	0047 73	Enables programmes to be written or read on a PC then transferred using the data key (Cat. No. 0047 72 above) to the time switch Version 3·0 system requirements : Windows®(1) 2000, Windows®(1) ME, Windows®(1) XP, and Windows®(1) 98 second edition, 40 MB free disc space
		Data key box
1	0057 91	1 module width - mounts on DIN rail to store data keys

(1) Windows is a registered trademark of the Microsoft Corporation

Pack	Cat. Nos.	Accessories
		Data key
1	0047 81	Enables programmes to be stored and/or transferred from one time switch to another When used with the USB adaptor (Cat. No. 0047 73 below) the data key can be programmed via a PC
		USB adaptor with software
1	0047 73	Enables programmes to be written or read on a PC then transferred using the data key (Cat. No. 0047 72 above) to the time switch Version 3·0 system requirements : Windows®(1) 2000, Windows®(1) ME, Windows®(1) XP, and Windows®(1) 98 second edition, 40 MB free disc space
		Data key box
1	0057 91	1 module width - mounts on DIN rail to store data keys

(1) Windows is a registered trademark of the Microsoft Corporation

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Programming

Just 4 buttons put you in control
Simple, easy to set up and easy to use…



With pre-installed English text that can be changed to German, French, Spanish or Italian

Central European time and date have been factory set with European summer/winter time change installed



To set UK time :
press MENU button select ***SET*** confirm OK;
select ***TIME/DATE*** confirm OK;
amend hour to UK hour confirm OK;
confirm remainder OK

Now set your ON/OFF times…

Press the MENU button, select ***PROGRAM*** from the menu
Select the function you need i.e. ***NEW, EDIT, CHECK*** or ***DELETE***





Example :
Select ***NEW*** confirm OK;
Select block or individual days confirm OK;
Set ***ON*** time Hours and Mins. confirm OK;
Set ***OFF*** time Hours and Mins. confirm OK;
Press the MENU button to return to normal operation

You can move forwards or backwards with the –+ buttons

Either programme directly on the time switch or via your PC
Using the data key you can transfer the programme to another time switch of the same model

More features than ever before :
- holiday programme
- hour counter with reset
- pulse function
- random function
- contrast control
- more ON/OFF controls

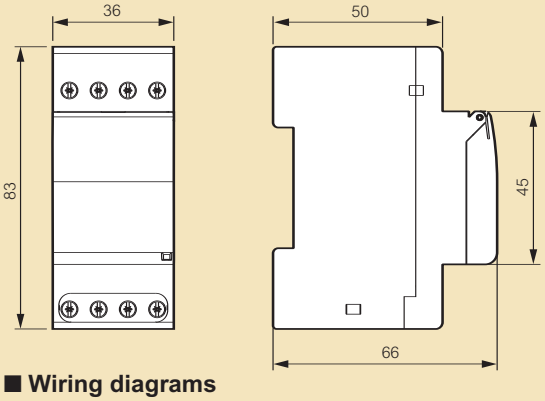
■ Technical information

Type Cat. No.	AlphaRex D21 0047 61/0047 63	AlphaRex D22 0047 71/6047 72
Programme	24 hour or 7 day	
No. of channels	1	2
No. of ON-OFF actions per day/week	56	2 x 28
Pulse start times	84	Nil
Pulse duration	1 second min. to 59 minutes 59 seconds max.	N/A
Switching capacity : **cos φ = 1** **incandescent lamp** **cos φ = 0·6**	16 A 8 A 10 A	
Contact	1 changeover switch	2 changeover switches
Terminal capacity	1·5 mm - 4 mm single/1·5 mm - 2·5 mm stranded	
IP rating	IP 20	
Min. prog. time	1 minute	
Switching step	1 minute	
Accuracy	± 0·2 second per day	
Working reserve(1)	6 years	
Programme memory	Unlimited (EEPROM)	
Manual switching	Override and permanent	
No. of 17·5 mm modules	2	
Operating temp.	–20 °C . . . +55 °C	
Storage temp.	–20 °C . . . +60 °C	
Weight	130 g	136 g

(1) For time and date only

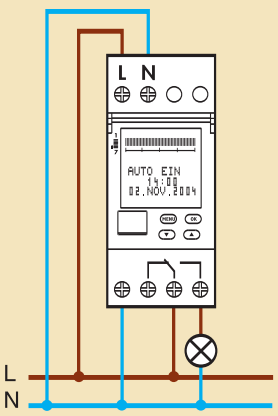
A programme consists of an ON and OFF time and the assigned day(s)

■ Dimensions

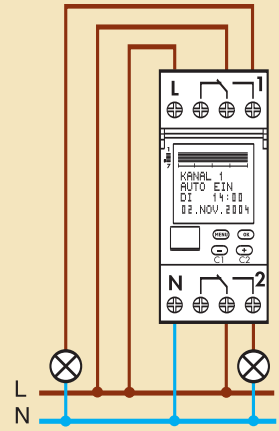


■ Wiring diagrams

AlphaRex D21



AlphaRex D22



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Programming

Annual, weekly, DY64 time switch digital for rail - 4 channel

The AlphaRex DY64 time switch provides for annual, weekly and exceptional programming :

Weekly programme menu :

Used to automatically switch on-off simple circuits, such as lighting or boilers. A weekly programme consists of an **ON** time and an **OFF** time and the associated switching days.

- **MON to SUN :** The days are preset, just enter the **ON** and **OFF** times. This is used where the same programme is repeated on each day.
- **INDIVIDUAL :** Enter both the **ON** and **OFF** time plus the switching day(s). This is used where the same programme is only repeated on certain days of the week or different programmes are required on various days.

Annual programme menu :

This permits the input of annual programmes or additional programmes to those above, which are executed during a specific period of time. The annual and weekly programmes on the same channel are integrated together as described. Time periods are set by entering the start date and the end date.

- Select **EVERY YEAR** if the programme is to be repeated during the same period each year. E.g. Christmas, national holidays, birthdays.
- Select **ONCE** if the programme is to be executed only during a single period. E.g. vacation periods, where the start date and end date differ each year

Exceptional programme menu :

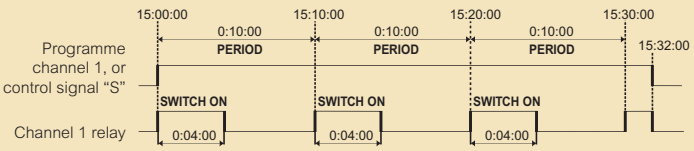
The above preset programmes are replaced by any exceptional programme for as long as the exceptional programme is active. However, other exceptional programmes will be executed while an exceptional programme is active. The various exceptional programmes are integrated together.

Using the exceptional programme :

- The **EVERY YEAR** option should be selected if the exceptional programme is to be activated for the same period and time every year.
- The **ONCE** option is used for programmes that only require a single period and where the start and end dates differ each year e.g. vacation periods.
- The **MON to SUN** option runs from 00:00 hours on the start date to 24:00 hours on the end date. During this period the output of the related channel only switches the exceptional programme setting.
- The **INDIVIDUAL** option runs from 00:00 hours on the start date to 24:00 hours on the end date. During this period the output of the related channel switches only as defined in the set exceptional programme.
- The **PROG ON** option enables the user to make the output channel permanently ON during the start (ON) and end (OFF) times entered.
- The **PROG OFF** option enables the user to make the output channel permanently OFF during the start (ON) and end (OFF) times entered.

Cycle function for channel 1

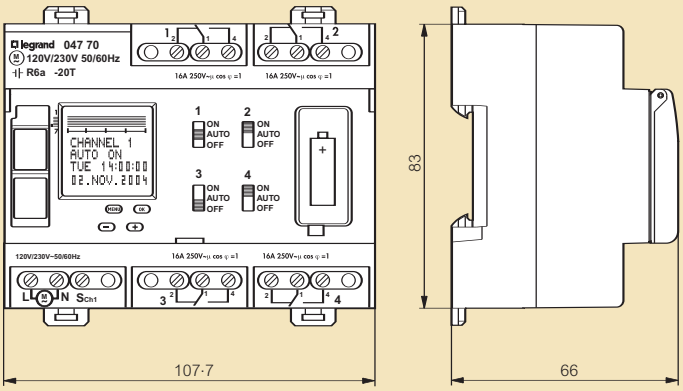
The standard function on channel 1 can be changed into a cycle function to provide on and off cyclically. Setting the **PERIOD** and the **SWITCH ON** times activates this option



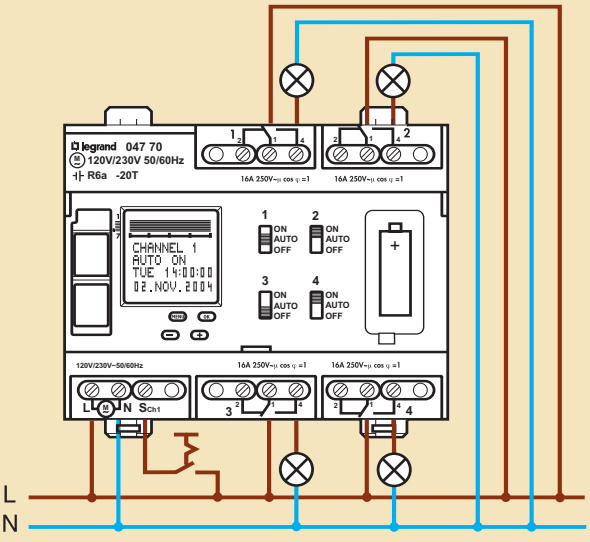
■ Technical data

Type Cat. No.	AlphaRex DY64 0047 70
No. of channels	4
Switching capacity : **cos φ = 1** **incandescent lamp** **cos φ = 0·6**	 16 A 8 A 10 A
IP rating	IP 20
Shortest switching time	1 second
Accuracy	±0·2 seconds per day or frequency
Switch output	4 SPDT
Programmes	3 x 4 x 28 (336)
Control input with delay time	0 min - 23 hr 59 min
Working reserve	5 years
Switching increment	1 second
No. of 17·5 mm modules	6
Operating temperature	–20 °C . . . +55 °C

■ Dimensions



■ Wiring diagram



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

MicroRex™ time switches
digital for rail


6047 74


0037 00

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V~ 50/60 Hz
LCD digital display
Mount on DIN rail EN 60715

Pack	Cat. Nos.	MicroRex D Plus
		Working reserve : 6 years Accuracy : ±1 second per day Programmable for 1 minute min. at 1 minute steps either as 24 hour/7 day using pre-set groups of days One programme consists of 1 "ON" and 1 "OFF" time and the allocation of any day of the week or a combination of days. Plus the selected channel *Example :* Prog. 1 On 07.00hrs Off 08.15hrs Mon-Fri Ch1 Prog. 2 On 16.00hrs Off 20.15hrs Mon-Fri Ch2 Prog. 3 On 10.00hrs Off 16.15hrs Sat-Sun Ch1 **Additional features :** EEPROM memory stores programme indefinitely Optional automatic summer/winter time change Manual override (ON or OFF) Automatic advance (changes contact position until next automatic ON time)
		MicroRex D21 Plus
1	6047 74	24 hour or 7 day, 28 programme, 1 channel 1 x 16 A voltage free c/o contact
		MicroRex D22 Plus
1	6047 77	24 hour or 7 day, 2 x 14 programme, 2 channel 2 x 16 A voltage free c/o contacts
		MicroRex D
		Working reserve : 100 hours Accuracy : ±2·5 seconds per day **7 day programme** Programmable for 1 minute min. at 1 minute steps **Additional features :** Manual advance/override (ON-OFF) Automatic override (ON-OFF) for holidays, weekends or bank holidays up to 99 days successively Automatic summer/winter setting
		MicroRex D11 – 1 module
1/30	0037 00	8 programmes, 1 channel 1 x 16 A – 250 V~ voltage free c/o contacts with 8 "ON-OFF" per day or per week

MicroRex™ time switches
digital for rail

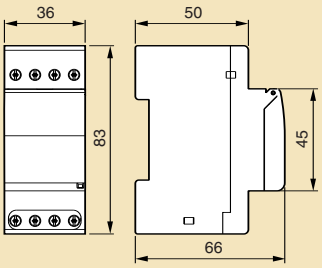
■ Technical information

Type Cat. No.	MicroRex D21 Plus 6047 74	MicroRex D22 Plus 6047 77	MicroRex D11 0037 00
Programme	24 hour or 7 day		7 day
No. of channels	1	2	1
No. of ON-OFF actions per day/week	28	2 x 14	8
Switching cap : cos φ = 1 incandescent lamp cos φ = 0·6	16 A 5 A 8 A		16 A 4 A 10 A
Contact	1 c/o	2 c/o	1 c/o
Terminal capacity	1·5 - 4 mm single/1·5 - 2·5 mm stranded		
IP rating	IP 20		
Min. prog. time	1 minute		
Switching step	1 minute		
Accuracy	±1 second per day		±2·5 sec/d
Working reserve(1)	6 years		>100 hrs
Prog. memory	EEPROM		–
Manual switching	Override and permanent		
No. of 17·5 mm modules	2		1
Operating temp.	–20 °C . . . +55 °C		–10 °C. . .+55 °C
Storage temp.	–20 °C . . . +60 °C		–
Weight	130 g		100 g

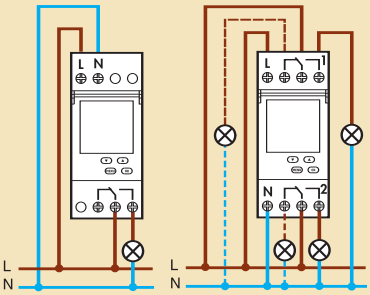
(1) For time and date only

■ Dimensions and wiring diagrams

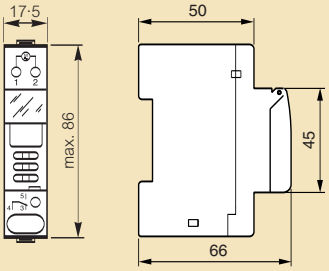
MicroRex D21/D22 Plus



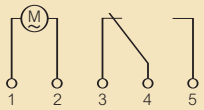
Wiring diagram



MicroRex D11



Wiring diagram



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

MaxiRex™ time switches
digital surface or 72 x 72 panel mounting



0496 82

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V∿ 50/60 Hz
Accuracy : ±1 second per day
LCD digital display
Programmable for 1 minute minimum at 1 minute intervals

Pack	Cat. Nos.	MaxiRex D Plus
		Working reserve : 6 years Accuracy : ±1 second per day Programmable for 1 minute min. at 1 minute steps either as 24 hour/7 day using pre-set groups of days One programme consists of 1 "ON" and 1 "OFF" time and the allocation of any day of the week or a combination of days. Plus the selected channel *Example :* Prog. 1 On 07.00hrs Off 08.15hrs Mon-Fri Ch1 Prog. 2 On 16.00hrs Off 20.15hrs Mon-Fri Ch2 Prog. 3 On 10.00hrs Off 16.15hrs Sat-Sun Ch1 **Additional features :** EEPROM memory stores programme indefinitely Optional automatic summer/winter time change Manual override (ON or OFF) Automatic advance (changes contact position until next automatic ON time)
		MaxiRex D72/1 Plus
1	0496 80	24 hour or 7 day, 28 programme, 1 channel 1 x 16 A voltage free c/o contact
		MaxiRex D72/2 Plus
1	0496 82	24 hour or 7 day, 2 x 14 programme, 2 channel 2 x 16 A voltage free c/o contacts

		Accessories
5	0498 32	Clip-on support frame for panel mounting
5	0044 09	DIN rail ⎓ adaptor

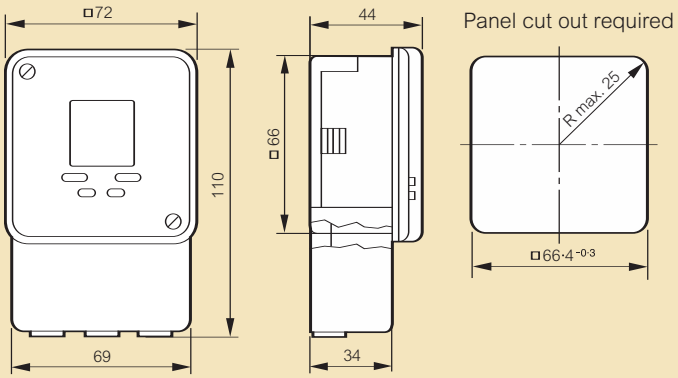
MaxiRex™ time switches
digital surface or 72 x 72 panel mounting

■ Technical information

Type Cat. No.	MaxiRex D72/1 Plus 0496 80	MaxiRex D72/2 Plus 0496 82
Programme	24 hour or 7 day	
No. of channels	1	2
No. of ON-OFF actions per day	28	2 x 14
Switching capacity : **cos φ = 1** **incandescent lamp** **cos φ = 0·6**	16 A 5 A 8 A	16 A 5 A 8 A
Contact	1 changeover switch	2 changeover switches
Min. prog. time	1 minute	
Switching step	1 minute	
Accuracy	±1 second per day	
Working reserve(1)	6 years	
Programme memory	EEPROM	
Manual switching	Override and permanent	
Operating temp.	–20 °C . . . +55 °C	
Storage temp.	–20 °C . . . +60 °C	
Weight	178 g	204 g

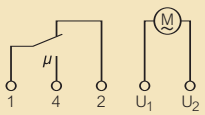
(1) For time and date only

■ Dimensions

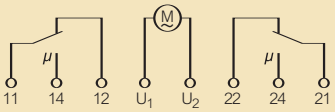


■ Wiring diagrams

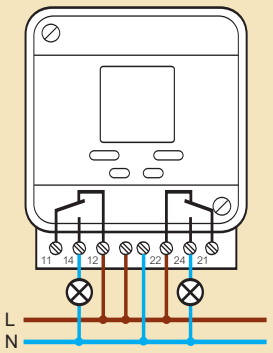
MaxiRex D72/1 Plus

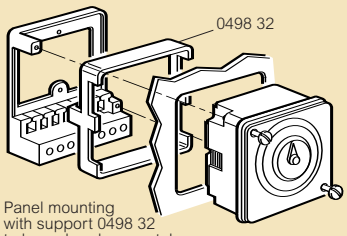


MaxiRex D72/2 Plus

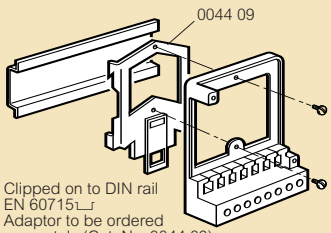


MaxiRex D72/2 Plus





Panel mounting with support 0498 32 to be ordered separately



Clipped on to DIN rail EN 60715⎓
Adaptor to be ordered separately (Cat. No. 0044 09)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

MicroRex™ time switches
analogue for rail


0037 30


0037 40


0037 52

Conform to EN 60730-1 and EN 60730-2-7
Supply voltage : 230 V∿ +10% –15%
Accuracy : ±5 minutes per day(1)
Voltage free contacts with ON-OFF-AUTOMATIC 3 position switch
Mount on DIN rail EN 60715

Pack	Cat. Nos.	MicroRex – 1 module
		24 hour programme Programmable for 15 minutes minimum at 15 minute intervals
		MicroRex T11
1	0037 30	Without working reserve – 50 Hz
		MicroRex QT11
1/10	0037 40	With 100 hr working reserve – 50/60 Hz

Pack	Cat. Nos.	MicroRex – 3 modules
		24 hour programme Programmable for 30 minutes minimum at 15 minute intervals
		MicroRex T31
1/10	0037 52	Without working reserve – 50 Hz

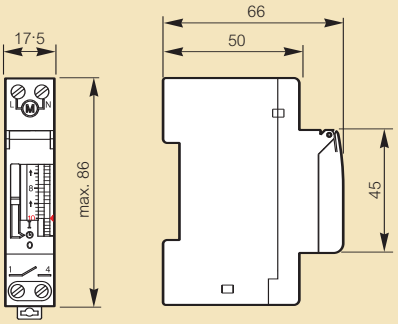
(1) Switching accuracy stated, clock accuracy is ±2·5 s/d for 'Q' range others subject to frequency

MicroRex™ time switches
analogue for rail

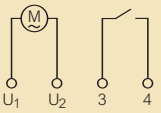
■ MicroRex – 1 module

Type Cat. No.	MicroRex T11 0037 30	 QT11 0037 40
Supply voltage	230 V∿ +10% –15%	
Frequency	50 Hz	50/60 Hz
Switching capacity : cos φ = 1 incandescent lamp cos φ = 0·6	16 A 4 A 10 A	
Contact	On/off	
Working reserve	None	100 hours
Min. switching time	15 minutes	
Interval	15 minutes	
Operating temp.	–10 °C . . . +55 °C	

■ Dimensions



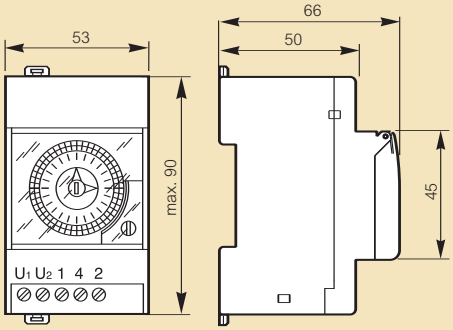
■ Wiring diagram



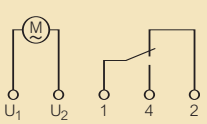
■ MicroRex – 3 modules

Type Cat. No.	MicroRex T31 0037 52	 QT31 0037 53	 QW31 0037 55
Supply voltage	230 V∿ +10% –15%		
Frequency	50 Hz	50/60 Hz	50/60 Hz
Switching capacity : cos φ = 1 incandescent lamp cos φ = 0·6	16 A 4 A 10 A		
Contact	Changeover switch		
Working reserve	None	100 hours	100 hours
Min. switching time	30 minutes		4 hours
Interval	15 minutes		2 hours
Operating temp.	–10 °C . . . +55 °C		

■ Dimensions



■ Wiring diagram



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

MaxiRex™ and EconoRex™ time switches
analogue surface or 72 x 72 panel mounting

MaxiRex™ and EconoRex™ time switches
analogue surface or 72 x 72 panel mounting



0497 54



0499 81

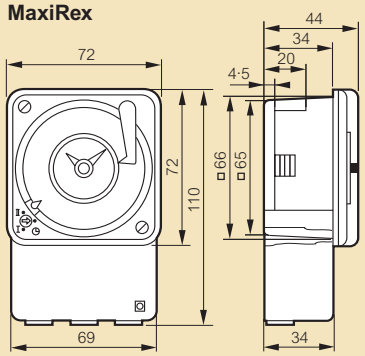
Pack	Cat. Nos.	MaxiRex
		Conform to EN 60730-1 and EN 60730-2-7 Supply voltage : 230 V∿ ±10% 3 position changeover switch With manual override Voltage free contacts
		With 72 x 72 mm display to DIN EN 60715 Part C
		24 hour programme Programmable for 30 minutes minimum at 10 minute intervals Accuracy : ±5 minutes per day
		MaxiRex T
1/30	0497 50	Without working reserve – 50 Hz
		MaxiRex QT
1/30	0497 54	With 100 hr working reserve – 50/60 Hz
		7 day programme Programmable for 3 hours minimum at 1 hour intervals Accuracy : ±30 minutes per day
		MaxiRex W
1/30	0497 52	Without working reserve – 50 Hz
		MaxiRex QW
1/30	0497 56	With 100 hr working reserve – 50/60 Hz
		24 hour programme Programmable for 1·10 minutes minimum at 1·10 minute intervals Accuracy : ±5mins/12·5 secs Other details as Cat. No. 0497 50 except 2 changeover switches and two dials
		MaxiRex TS
1/30	0497 58	Without working reserve – 50 Hz
		Accessories for MaxiRex
5	0498 32	Clip-on support frame for panel mounting
5	0044 09	DIN rail ⊔ adaptor
		EconoRex
		Conforms to EN 60730-1 and EN 60730-2-7 Supply voltage : 230 V∿ ±10% 50 Hz With manual override Voltage free contacts
		With 72 x 72 mm display to DIN EN 60715 Part C
		24 hour programme Programmable for 15 minutes minimum at 15 minute intervals with retained 'pull out' segments Easily programmed, easily read by user Just set actual time to pointer and pull out segments for switch time
		EconoRex
1/30	0499 81	BTAP without working reserve

■ Technical information

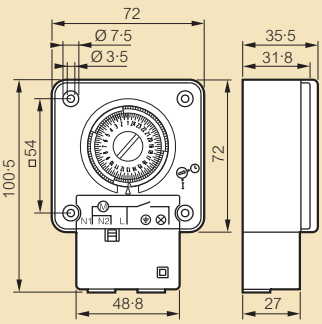
Type	MaxiRex T	MaxiRex QT	MaxiRex W	MaxiRex QW	MaxiRex TS	EconoRex BTAP
Cat. No.	0497 50	0497 54	0497 52	0497 56	0497 58	0499 81
Supply voltage	230 V∿ +10% –15%					
Frequency	50 Hz	50/60 Hz	50 Hz	50/60 Hz	50 Hz	50 Hz
Switching capacity : cos φ = 1 cos φ = 0·6 incand. lamp	16 A 10 A 1 000 W					16 A 8 A 1 000 W
Contact	1 c/o SPDT	1 c/o SPDT				0499 81 1 c/o
Working reserve	None	100 hrs	None	100 hrs	None	None
Min. switching time	30 mins		3 hrs		30 mins 112·5 secs	15 mins
Interval	10 mins		1 hr		10 mins 37·5 secs	15 mins
IP rating	IP 30					
Storage temp.	–10 °C . . . +60 °C					
Operating temp.	0 °C . . . +55 °C					

■ Dimensions

MaxiRex

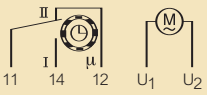


EconoRex

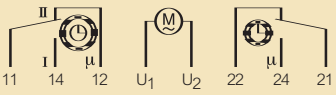


■ Wiring diagrams

MaxiRex (except TS) and **EconoRex** 0499 81

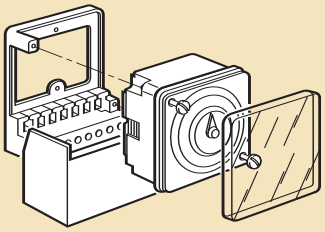


MaxiRex TS

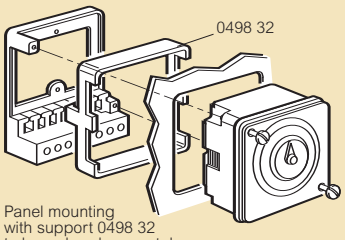


■ MaxiRex mounting

Wall mounting

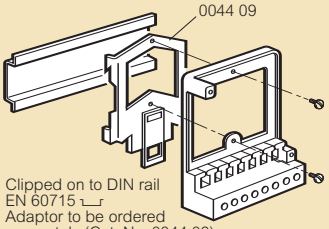


Panel mounting



Panel mounting with support 0498 32 to be ordered separately

DIN rail mounting



Clipped on to DIN rail EN 60715 ⊔
Adaptor to be ordered separately (Cat. No. 0044 09)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

AstroRex light control time switches
digital for rail


0047 64


0047 72


0047 73

Set-up and features (p. 373)

Conform to IEC/EN 60730-1 and IEC/EN 60730-2-7
LCD digital display and text based programming for easier use
Mount on DIN rail EN 60715

Pack	Cat. Nos.	AstroRex
		Accuracy : ± 0·2 second per day Programmable for 1 minute minimum at 1 minute steps by day(s) or week blocks, either directly or via a PC with Legrand software and data key Programmable either directly on the time switch or via a PC with the Legrand software and data key For switching lights or other equipment in accordance with sunrise/sunset ± 120 mins without the need of an external light detector Accepts additional switch programmes for energy saving 1 programme consists of 1 ON and 1 OFF time and the allocation of any day of the week or a combination of days, plus the selected channel on the two channel version **Additional features :** Back lit display 6 year working reserve for date and time EEPROM memory keeps your programme stored indefinitely Optional automatic summer/winter time change Holiday programme, 1 hour text function Built-in hours counter, pin coded input Manual switching possible Sealable transparent covers
		AstroRex D21 7 day, 1 channel 1 changeover 16 A voltage free contact 250 V 50 Hz 1 x 28 programmes with control input, delay-time 0 min - 23h 59 min
1	0047 64	230 V 50/60 Hz supply voltage
		AstroRex D22 7 day, 2 channels 2 changeover 16 A voltage free contacts 250 V 50 Hz 2 x 14 programmes
1	0047 67	230 V 50/60 Hz supply voltage

Pack	Cat. Nos.	Accessories
		Data key
1	0047 72	Enables programmes to be stored and/or transferred from one time switch to another When used with the USB adaptor (Cat. No. 0047 73 below) the data key can be programmed via a PC
		USB adaptor with software
1	0047 73	Enables programmes to be written or read on a PC then transferred using the data key (Cat. No. 0047 72 above) to the time switch Version 3·0 system requirements : Windows® (1) 2000, Windows® (1) ME, Windows® (1) XP, and Windows® (1) 98 second edition, 40 MB free disc space

Note : AlphaSoft version 2.1 will programme both AstroRex and AlphaRex time switches

Contact our technical team if you have a previous version

(1) Windows is a registered trademark of the Microsoft Corporation

AstroRex light control time switches
digital for rail

Technical information

Type Cat. No.	AstroRex D21 0047 64	AstroRex D22 0047 67
Programme	24 hour or 7 day	
No. of channels	1	2
Programmes(1)	28	2 x 14
Switching capacity : • ohmic 230 V~ cos = 1 • incandescent 0·6 lamp 230 V • inductive 230 V~ cos = 0·6	16 A~ 8 A~ 10 A~	
Voltage free contact(s)	1 SPDT	2 SPDT
IP rating	IP 20	
Min. programme time	1 minute	
Switching step	1 minute	
Accuracy	± 0·2 second per day	
Working reserve(2)	6 years	
Control input with delay-time	0 min - 23h 59min	–
Programme memory	Unlimited (EEPROM)	
No. of 17·5 mm modules	2	
Operating temperature	–20 °C . . . +55 °C	

(1) Each programme comprises a switch-on and switch-off time and the associated on and off days or day blocks
(2) For time and date only

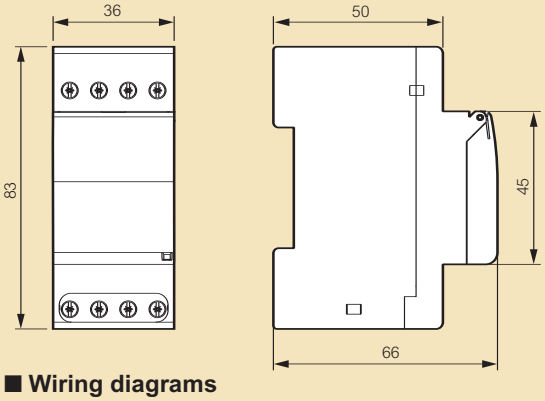
Simple to use 4 button control

MENU Menu selection, back in menu
Actuated > 1 second = operating display

OK Confirm selection or adopt parameters

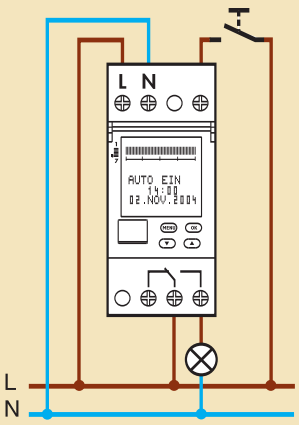
– + Select menu items or set parameters, also selection of channel in 2-channel time switch (channel 1 - channel 2)

Dimensions

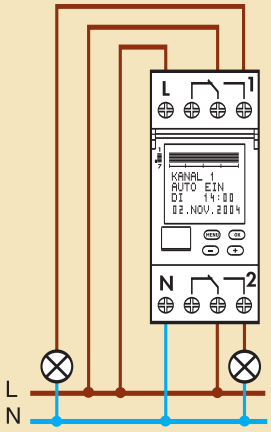


Wiring diagrams

AstroRex D21



AstroRex D22



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

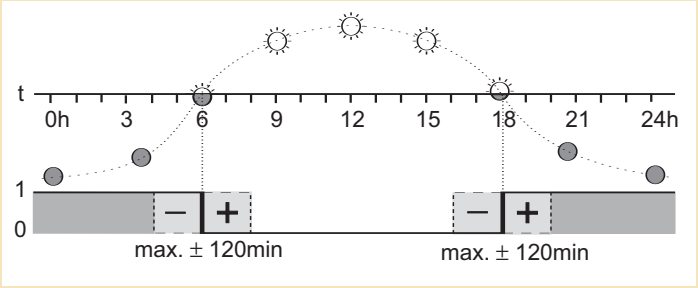
■ Basic set up



The AstroRex will guide the user through the set up and programming in English – this can be changed to another language via the "MENU" button. Every step is shown on the backlit display. Illuminated buttons make operation easy in poor visibility.

Time, date, summer/winter time changes are preset at the factory to reduce the installation time. These can be easily amended using "MENU + SET".

Sunrise and sunset are preset for the area of SOEST in Germany.
These settings are easily changed to the required location by selecting "MENU", "SET" and "ASTRO" to either the option "POSITION" or "COORDINATES".
"POSITION" = The town and country closest to the location can be selected.
"COORDINATES" = The actual coordinates for the location can be set, using the information found in the time zone map provided with the product.
The useful option of "OFFSET" enables the switching to be set back or brought forward by up to 120 minutes in relation to sunrise or sunset.



Example : If an offset of +30 minutes is entered the time switches 30 minutes after sunrise and 30 minutes after sunset.
If an offset of -30 minutes is entered the time switches 30 minutes before sunrise and 30 minutes before sunset.

All these settings can easily be made directly into the time switch using the four button control. The Legrand "AlphaSoft" software and data transfer key provide an easy and comfortable method of programming the time switches without site constraints. See p. 372
Data Key Cat. No. 0047 72 and USB adaptor with software Cat. No. 0047 73.

Complete reset possible - see instructions for information.

■ Special features

Not only will AstroRex provide the opposite basic settings but it is also packed with other useful functions. You can… change the relay settings, input holiday schedules, count the hours and reset the hour counter, set a security PIN code, make a 1 hour test, change the contrast and on the one channel version programme a delay time from an input.

Relay settings
These can be changed via "MENU" and "FUNCTIONS".
The default is "AUTO" (it switches as programmed).
Other options are "CONST ON", "CONST OFF", and "EXTRA".
When "EXTRA" is selected, the switch contact position is reversed until the next switch command.

Holidays
The start and end times of holidays are entered in the holiday programme and activated by the command "ACTIVE" and deactivated with the command "PASSIVE" If the holiday programme is active then the time switch will not execute any of the normal programmed settings but remains either "CONST ON" or "CONST OFF" as selected and set during the holiday period, after which it returns to the normal programmed settings.

1 hour test
The function "1H-TEST" can be used to simulate switching. When activated the switch outputs are switched for one hour, after which it returns to the normal programmed settings.

PIN code
Input and programming can be disabled and reactivated using a four digit "PIN code" The inhibit can be cancelled using another means should the code be lost.

Hour counter
The hour counter displays the relay total on time, in hours, since the last reset (max. 65,535 hours).

Contrast
Enables the display contrast to be adjusted to suit the conditions.

Delay-Time (D21 only)
A controlled input terminal with a delay time from 0 min to 23hrs 50min is provided. The delay time begins as soon as the voltage at the control input drops.

Data key
The menu "KEY"- "READ"- "WRITE", is automatically activated when power is connected and the key is inserted. It can be used to store a programme from the time switch or copy the same programme to another like time switch or used with the AlphaSoft software via a PC to provide a comfortable and easy set up of the Alpha Rex light control switch. Data already saved on the key is overwritten by new data being input using the "READ" command.

The time switch can be programmed without mains voltage and the data key programmed to accept the data by selecting the "KEY" function from the "MENU". This does not work automatically when the data key is inserted and must be selected manually.

PC programming
Using the Legrand AlphaSoft software the time switch can be easily and comfortably programmed in your office and the data transferred to the data key, which can in turn be used to programme the time switch in the workshop or on site or kept as a back up.

System requirements : USB port, Windows® 98 second edition, Windows® 2000 or Windows® XP.
40MB free memory capacity on the system drive.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

light control switches
digital for rail


0037 21


0047 02

Pack	Cat. Nos.	
		Light sensitive switch Microlux™ D Supply voltage : 230 V~ ±10% 50/60 Hz Working reserve : 100 hours Accuracy of time switch : 2·5 seconds per day Mount on DIN rail EN 60715 **7 day programme** **Programming possibilities :** 8 different "ON" and 8 different "OFF" to be allocated per day or per week Minimum switching time : 1 minute Light sensitivity adjustable from 5 to 2 000 Lux **Additional features :** Summer/winter button for time changes Manual advance/override Max. distance between photo cell and switch : 50 m Supplied with IP 55 - IK 07 photocell (Cat. No. 0916 87)
1/10	0037 21(1)	**Microlux D** 10 A – 250 V~ cos φ = 1 1 changeover contact with 60 sec delay
10	0047 02	**Time-lag switch** For staircase lighting. Switches a lighting circuit on and off from remote switch for a specific time Power supply : 230 V~ - 50/60 Hz Output : 16 A - 250 V~ - cos φ = 1 2 000 W incandescent 2 000 W halogen - 230 V~ 1 000 VA fluo-series compensated 120 VA fluo-parallel compensated 14 µF Adjustable from 30 s to 12 min. 3-wire or 4-wire connection

(1) Supplied with photo-electric cell housed in plexo weatherproof box - IP 55

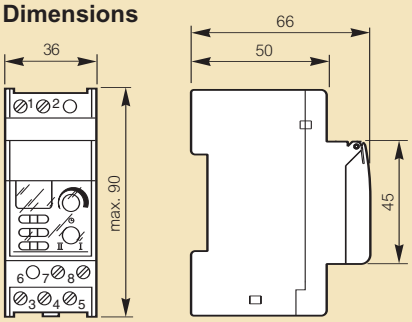
light control switches
digital for rail

Technical information

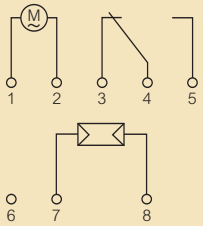
Type Cat. Nos.	Microlux D 0037 21	Plexo 55 0916 87
Operating temp.	0 °C . . . +50 °C	–20 °C . . . +60 °C
IP rating	IP 20	IP 55

Microlux™ D

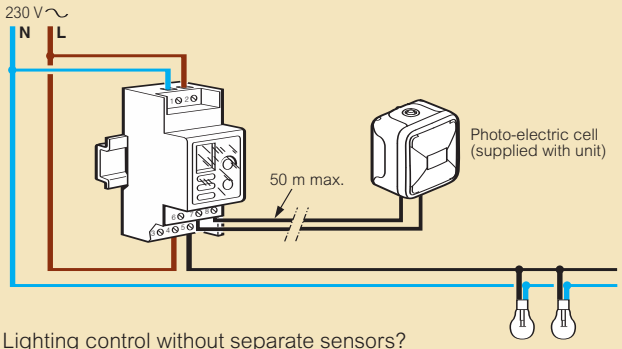
Dimensions



Wiring diagram



Connection of programmable light sensitive switch

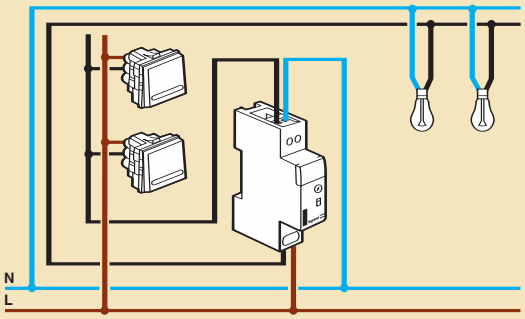


Lighting control without separate sensors?
No problem for AstroRex time switch, see p. 372

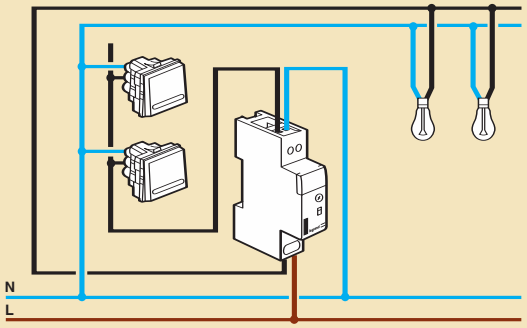
Time-lag switch

Allows :
- unlimited numbers of unlit push-buttons
- 50 lit push-buttons max. (neon R = 1 mA max.) Constant lighting possible

3-wire connection



4-wire connection



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

power contactors


0040 33


0040 49


A location on the device enables a supply busbar to run through (except 40 and 63 A)


0040 85


0040 53

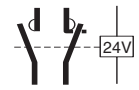
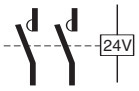

0040 78

Dimensions (p. 380)

Conform to EN 61095
Power contactors have a handle covered with a blanking plate
Stop or start override without automatic return is possible (use tool)

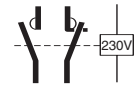
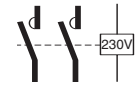
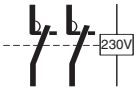
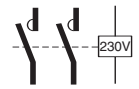
Power contactors with 24 V~ coil

Double pole (L + N) - 250 V~

Pack	Cat. Nos.	24 V~ coil I max.		Type of contact	Number of 17·5 mm modules
1	0040 33	16 A		N/C + N/O	1
1	0040 41	20 A		2 N/O	1

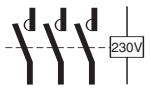
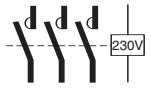
Power contactors with 230 V~ coil

Double pole (L + N) - 250 V~

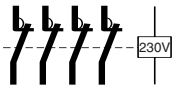
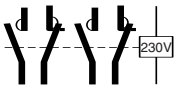
Pack	Cat. Nos.	230 V~ coil I max.		Type of contact	Number of 17·5 mm modules
1	0040 38	16 A		N/C + N/O	1
1	0040 49	20 A		2 N/O	1
1	0040 50	20 A		2 N/C	1
1	0040 68	40 A		2 N/O	2
1	0040 75	63 A		2 N/O	2

Power contactors with 230 V~ coil

Triple pole - 400 V~

Pack	Cat. Nos.	230 V~ coil I max.		Type of contact	Number of 17·5 mm modules
1	0040 69	40 A		3 N/O	3
1	0040 77	63 A		3 N/O	3

Four pole - 400 V~

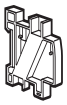
1	0040 53	20 A		4 N/O	2
1	0040 54	20 A		4 N/C	2
1	0040 55	20 A		2 N/O + 2 N/C	2
1	0040 70	40 A		4 N/O	3
1	0040 78	63 A		4 N/O	3

Auxiliary device for contactors

Auxiliary changeover switch
Fitted on left-hand side of contactor
Used to signal the position status of the contacts on the product to which it is connected

Pack	Cat. Nos.	I max.	Voltage	Changeover switch	Number of 17·5 mm modules
1	0040 85	5 A	250 V~	N/C + N/O	0·5

Accessory

Pack	Cat. Nos.		
10	0044 40	Spacing unit 0·5 module To be placed between 2 mechanisms to aid cooling	

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

determining the contactor rating

■ Choice of contactor rating

For a lifetime of 10 years with 200 days of annual use

■ Heating (AC.7a)

Maximum power in kW according to the number of operations per day

Operations per day	16 A	20 A	40 A	63 A
230 V/single phase network				
≤ 50	3·5	4·5	9	14
75	3	3·5	7·5	12
100	2·5	3	6	9·5
250	1·5	2	4	6
500	1	1	2·5	4·5
400 V/3 phase network				
≤ 50	10	13	26	41
75	9	11	22	35
100	7	9	17	26
250	3	4	8	13
500	2	3	6	9

■ Lighting

Maximum number of lamps, tubes, according to their unit power requirement (W) for 230 V single phase

• Incandescent and halogen lamps

Unit power (W)	40 W	60 W	75 W	100 W	150 W	200 W	300 W	500 W	1 000 W
16 A	40	32	27	21	13	11	8	4	2
20 A	47	37	30	23	15	12	8	5	2
40 A	118	87	72	52	36	26	18	11	7
63 A	156	115	96	71	48	35	25	15	8

• Halogen lamps with 12 V ferromagnetic transformer

Unit power (W)	20 W	50 W	75 W	100 W	150 W
16 A	16	11	9	7	4
20 A	19	12	10	8	5
40 A	45	29	25	20	15
63 A	64	42	34	28	19

• Fluorescent tubes with starter

Unit power (W)		15 W	18 W	20 W	36 W	40 W	58 W	65 W	115 W	140 W
Single non compensated	**16 A**	24	24	24	22	22	15	15	8	8
	20 A	28	28	28	26	26	17	17	10	10
	40 A	75	75	75	65	65	40	40	22	22
	63 A	105	105	105	93	93	58	58	33	33
Single parallel compensated	**16 A**	16	16	16	16	16	11	11	6	6
	20 A	18	18	18	18	18	13	13	6	6
	40 A	40	40	40	40	40	30	30	14	14
	63 A	60	60	60	60	60	43	43	20	20
Double serial(2) compensated	**16 A**	–	32	32	18	18	11	11	7	7
	20 A	–	38	38	21	21	13	13	9	9
	40 A	–	85	85	45	45	29	29	18	18
	63 A	–	120	120	65	65	40	40	24	24

Unit power (W)	16 A	20 A	40 A	63 A	100 A
4 x 18 W	16	19	48	67	–

(1) Unit power (W), muliply by 2 (for example : 2 x 18 W)

■ Motors (Ac.7b)

Maximum power in Kw

	16 A	20 A	40 A	63 A
Single phase 230 V motor with capacitor	0·9	1·1	2·5	4
3 phase 400 V motor	2·7	3·3	7·5	12

Other load types please contact us

■ Control consumption

	24 V	230 V		
	1 module	1 module	2 modules	3 modules
Inrush	12 VA	12 VA	35 VA	45 VA
Holding	3 VA	3 VA	3 VA	7 VA

To protect contactors against short-circuits (according to IEC 61095, conditional short-circuit Iq = 3 kA), it is advisable to use :

Contactor rating (A)	MCB or use Gg or aM rating (A)
16/20	≤ 20
40	≤ 40
63	≤ 63

Derating of contactors mounted in a modular enclosure if the interior temperature is > 40 °C

Rated current of contactor	40 °C	50 °C	60 °C	70 °C
Ie = 16 A	16 A	14 A	12 A	10 A
Ie = 20 A	20 A	18 A	16 A	14 A
Ie = 40 A	40 A	36 A	32 A	29 A
Ie = 63 A	63 A	57 A	50 A	46 A

Insert a spacer module every 2 contactors Cat. No. 0044 40

Frequency 50/60 Hz
Rated impulses with stand voltage (Uimp) : 4 kV
Mechanical endurance in operation cycles : 10^6

■ Temperature

operation between (1 module) – 5 and +40 °C
(2/3 modules) – 25 and +40 °C
storage between (1 module) – 25 and +70 °C
(2/3 modules) – 40 and +70 °C

■ Connection (mm²)

Type of wire	Rated current ≤ 25 A	Rated current 40 and 63 A
Rigid	1 x 6 or 2 x 4	1 x 25 or 2 x 10
Flexible	1 x 6 or 2 x 4	1 x 25 or 2 x 10
Flexible with single ferrule	1 x 4	1 x 16
Flexible with double ferrule	2 x 2·5	2 x 16

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com


0046 02


0046 00

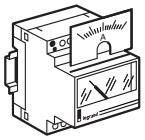

0046 52


0046 64

Technical information (p. 379)
Dimensions (p. 380)

Ammeters

Pack	Cat. Nos.		Number of modules
		Analogue ammeters Measure the intensity of the current circulating in an electrical circuit in Amperes (A)	
		Direct connection	
1	0046 02	To alternating or direct current Range : 0-30 A	4
		Connected using a 5 A current transformer (CT)	
1	0046 00	The meter is fitted with an appropriate dial for the intensity of the current being measured	4
		Measuring dials for ammeter Cat. No. 0046 00	
2	0046 10	0-50 A	
2	0046 13	0-100 A	
2	0046 15	0-200 A	
2	0046 17	0-300 A	
2	0046 18	0-400 A	
2	0046 20	0-600 A	
2	0046 21	0-800 A	
2	0046 22	0-1 000 A	
2	0046 24	0-1 500 A	
2	0046 25	0-2 000 A	



Current transformers (CT)

Used with ammeters or electricity meters
Supply a current of 0 to 5 A to the secondary which is proportional to the primary current
Fix to plate or rail EN 60715
Secondary joining with terminals for lugs, cage terminals or screws

Pack	Cat. Nos.		Transformation ratio	Power in VA
		Single phase CT		
		For cable Ø 21 mm and 16 x 12·5 mm bar		
1	0046 31		50/5	1·25
1	0046 34		100/5	2·5
1	0046 36		200/5	5·5
		For cable Ø 23 mm and 20·5 x 12·5 and 30 x 10·5 mm bar		
1	0047 75		300/5	11
		For cable Ø 35 mm and 40·5 x 10·5 mm bar		
1	0046 38		400/5	12
		For 32 x 65 mm bar		
1	0047 76		600/5	15
1	0047 77		800/5	12
1	0047 78		1 000/5	20
		For 38 x 127 mm bar		
1	0046 45		1 500/5	15
1	0046 46		2 000/5	20

Analogue voltmeter

Pack	Cat. Nos.		Number of modules
		For measuring the AC or DC voltage (V) in an electrical circuit	
1	0046 60	Range 0 - 500 V	4

Ammeter/digital voltmeter

Pack	Cat. Nos.		Number of modules
1	0046 63	Display from 0 to 999 A, kA, V Measures the current or the voltage of the circuit depending on the connection made - ammeter mode : connected via a 0 - 5 A current transformer (CT). Reading range adjusted according to CT used (100, 400, 600 or 1 000 A) Voltage : 230 V~ - 50/60 Hz Scale : 0 - 4 000 V - voltmeter mode : measures the AC or DC voltage of an electrical circuit Scale : 0 - 500 V	4

Selector switches

Pack	Cat. Nos.		Number of modules
		For manual switching of circuits being measured	
		4-position ammeter selector switch	
1	0046 50	For measuring currents in a 3 phase circuit using only one ammeter with a current transformer 	3
		4-position voltmeter selector switch	
1	0046 52	For measuring phase-to-phase voltages of a 3 phase circuit without neutral using only one voltmeter 	3
		7-position voltmeter selector switch	
1	0046 53	For measuring phase-to-phase voltages and phase-neutral voltages of a 3 phase circuit with neutral 	3

Digital frequency meter

Pack	Cat. Nos.		Number of modules
		For measuring the frequency of a 100 to 500 V~ electrical circuit in Hertz (Hz)	
1	0046 64	Green LED 3 digit display – 10-100 Hz display	4

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

measuring electrical energy
(continued)


0046 65


0046 72


0046 74


0046 94


0046 91

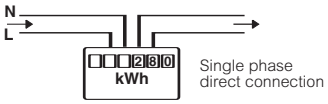
Technical information (p. 379)
Dimensions (p. 380)

Multi-function central measuring unit

Pack	Cat. Nos.		Number of 17·5 mm modules
1	0046 65	For measuring electrical values for low voltage applications : - current per phase - phase-to-phase voltage - phase voltage - frequency - power factor - instantaneous power (active, reactive, apparent - active and reactive energy Adapts to 3 phase balanced or unbalanced supplies with or without neutral The measurement is taken using current transformers (CT) with 5 A ratio The maximum measurement is 8 000 A	6

Single phase meters

Direct connection



Single phase direct connection

Power supply : 230 V∿ - 50/60 Hz

Without pulse transmitter

Pack	Cat. Nos.		Number of 17·5 mm modules
1	0046 81	Up to 32 A Display : LCD screens 6 digits including 1 decimal place 1 unit = 0·1 kWh Partial counting with reset	2
1	0046 72	Up to 63 A Display : LCD screen 5 digits, 1 unit = 1 kWh Partial counting with reset	2

Three phase meters

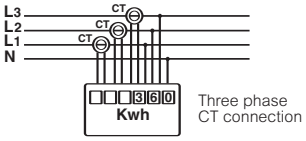
Power supply : 400 V∿ - 50/60 Hz (3 phase + N)
Display : LCD screen
5 digits, 1 unit = 1 kWh
With pulse transmitter to feed back remote electrical energy consumption measurements via volt-free contact

Direct connection

Pack	Cat. Nos.		Number of 17·5 mm modules
1	0046 73	Up to 63 A per phase Partial counting with reset 1 x 200 ms pulse every 10 kWh	4

Connection via a 0-5 A current transformer (CT)

Pack	Cat. Nos.		Number of 17·5 mm modules
1	0046 74	Current transformation ratio : 50/5 to 4 000/5 1 x 200 ms pulse every 10 kWh	4



Three phase CT connection

10/x 200 ms pulses per kWh (x = rating of CT)

Totalising hour counters

Used to count the operating hours of a machine or an electrical device to determine the exact operating duration and thus perform preventive maintenance as necessary

Counter with digital display

Capacity : 5 digits + 2 decimals (1 unit = 1 hour)
Precision : 1/100 hour
Consumption : 0·2 VA

Pack	Cat. Nos.		Number of 17.5 mm modules
1	0046 94	230 V∿ - 50 Hz	2
1	0046 91	24 V∿ - 50 Hz	2

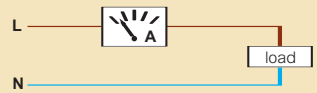
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Ammeters

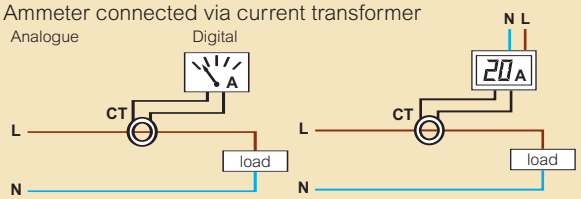
Technical characteristics

Type of measurement	Analogue		Digital
	Ferromagnetic		Electronic via shunt
Frequency	50 to 60 Hz		50 to 60 Hz
Precision	1·5 %		± 1 % to ± 1 digit
Operating temperature	– 10 °C to + 40 °C		– 10 °C to + 40 °C
Storage temperature	– 20 °C to + 80 °C		– 20 °C to + 70 °C
Consumption : • voltage circuit • measurement circuit	– 1·1 VA		4·5 VA 1 VA
Connection size	Direct 6 mm²	Via CT 4 mm²	2 x 2·5 mm²
Conformity to standards	EN 61010-1		EN 61010-1

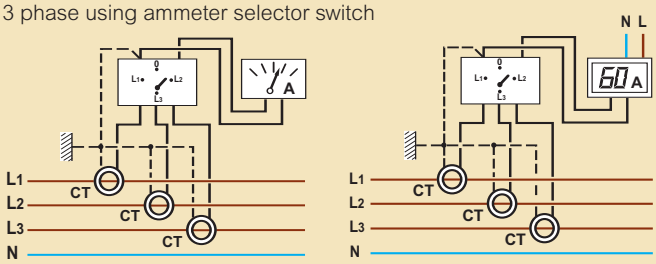
Ammeter connected directly



Ammeter connected via current transformer

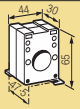
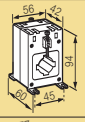
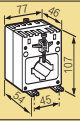
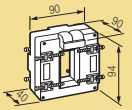
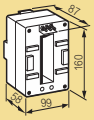


3 phase using ammeter selector switch



■ Current transformers (CT)

Dimensions

		Opening for cable Max. Ø (mm)	Opening for bar w. X th. (mm)	Fixing centres on plate (mm)
CT 50/5 100/5 200/5		Ø 21	16 x 12·5	on rail EN 60715
CT 300/5		Ø 23	20·5 x 12·5 25·5 x 11·5 30·5 x 10·5	55 x 45
CT 400/5		Ø 35	40·5 x 10·5	54 x 45
CT 600/5 800/5 1 000/5		–	32 x 65	fix on bar
CT 1 500/5 2 000/5		–	38 x 127	fix on bar

Technical characteristics

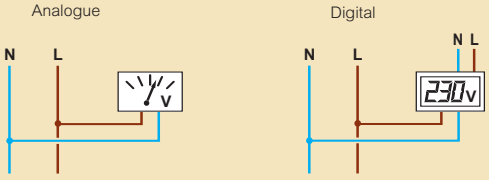
Degree of protection	IP 20
Using frequency	50/60 Hz

■ Voltmeters

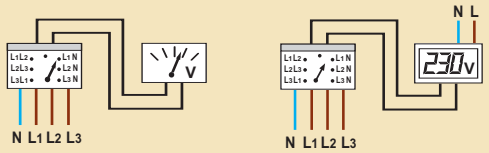
Technical characteristics

Type of measurement	Analogue	Digital
	Ferromagnetic	Electronic integration
Frequency	50 to 60 Hz	50 to 60 Hz
Precision	1·5 %	± 1 % to ± 1 digit
Operating temperature	– 10 °C to + 40 °C	– 10 °C to + 40 °C
Storage temperature	– 20 °C to + 80 °C	– 20 °C to + 70 °C
Consumption	3 VA	4·5 VA
Connection size	2 x 2·5 mm²	2 x 2·5 mm²
Conformity to standards	EN 61010-1	EN 61010-1

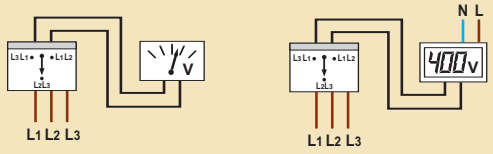
Voltmeter



3 phase using 7-position voltmeter selector switch for phase-to-phase and phase-neutral measurement



3 phase using 4-position voltmeter selector switch for phase-to-phase measurement



■ Frequency meter

Technical characteristics

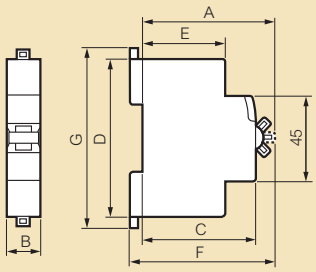
Type of measurement	Quartz electronic
Precision	± 0·2 % to ± 1 digit
Operating temperature	– 10 °C to + 40 °C
Storage temperature	– 20 °C to + 70 °C
Consumption	4·5 VA
Connection size	2 x 2·5 mm²
Conformity to standards	EN 61010-1

■ Multi-function measuring centre Cat. No. 0046 65

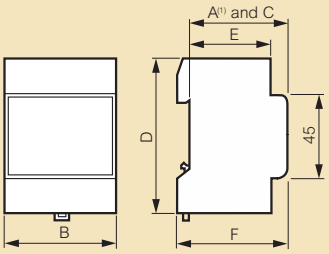
Unit of measurement	According to the current transformer ratios (CT)
Energy metering	9 figure totaliser (kWh), resolution 10 kWh
Consumption • voltage circuit • measurement circuit	 < 1 VA per phase < 0·5 VA per phase
Voltage	Single phase 230 V (+/– 10%)
Frequency	50 Hz (47 to 63 Hz)
Consumption	< 6 VA - 3·5 W
Output	Energy pulse lasting > 100 ms relay with volt-free contact 110 V dc/ac - 50 mA

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

modular DIN rail equipment
dimensions



Description	Dimension (mm)										
	A	B					C	D	E	F	G
		1-pole	1-pole + N	2-pole	3-pole	4-pole					
DX-E MCBs	70	17·7					60	83	44	76	88·5
DX, DX-H, DX-D up to 63 A	70	17·7		35·6	53·4	71·2	60	83	44	76	94
DX-D, DX-H from 80 to 125 A	70	26·7		53·4	80·1	106·8	60	83	44	76	89
RCBOs	70		35·6	71·2		124·6	60	83	44	76	94
4-pole RCBOs with 4 modules	70					71·2	60	83	44	76	94
RCDs 2-pole	70			35·6			60	83	44	76	94
4-pole	71·5					71·2	60	83	44	77·5	94
Auxiliary contacts Cat. Nos. 0073 50/51/53	70	8·7					60	83	44	76	83
Auxiliary contact Cat. No. 0073 54	70	17·7					60	83	44	76	83
Fuse carriers	67	17·7	17·7	35·6	53·4	71·2	60	83	44	73	94
Isolating switches 20 - 32 A	68	17·7		17·7	35·6	53·4	60	83	44	74	94
63 - 100 - 125 A	68	17·7		35·6	53·4	71·2	60	83	44	74	94
Changeover switches Cat. Nos. 0043 82/85	68	17·7					60	83	44	74	94
Cat. No. 0043 83	68	35·6					60	83	44	74	94
Push-buttons/push-button switches with indicators	68	17·7					60	83	44	74	94
Contactors ≤20 A	62	17·8		17·8	35·6	35·6	60	83	44	67·5	94
Light sensitive switch 4 functions Cat. No. 0037 25	60	88					60	70	37·5	66	84
Buzzers	60	17·5					60	76	44	66	85
Timer Cat. No. 0047 02	60	17·8					60	94	44	66	94



Description		Dimension (mm)					
		A(1)	B	C	D	E	F
Programmable time switches Cat. Nos.	0037 00	60	17·8	60	83	44	66
	0037 30/40	60	17·8	60	86	37·5	66
	0037 52	60	53	60	89	44	66
	0037 06 0037 61/63/64/71/81	60	36	60	90	44	66
	0047 61	60	36	60	90	44	66
	0047 63	60	36	60	90	44	66
	0047 64	60	36	60	83	44	66
	0047 67	60	36	60	83	44	66
	0047 70	60	107.7	60	83	44	66
	0047 71	60	36	60	90	44	66
	6047 72	60	36	60	90	44	66
	6047 74	60	36	60	90	44	66
	6047 77	60	36	60	90	44	66
Light sensitive switch Cat. No. 0037 21		60	36	60	90	44	66
Voltmeters - Ammeters		60	70	60	83	44	66
Selector switches		69	52·5	60	74	44·5	74
Contactors 40 and 63 A - 2 modules		62	35·6	60	83	44	68
Contactors 40 and 63 A - 3 modules		62	53·4	60	83	44	68
Auxiliaries for contactors 20 A		60	9	60	83	44	66
Digital frequency meter Cat. No. 0046 64		63	70	63	89	42	69
Multi-function central measuring unit Cat. No. 0046 65		64	105	64	89·5	44	69
Three phase meters Cat. Nos. 0046 81/72		60	35·5	60	89	44	66
Single phase meters Cat. Nos. 0046 73/74		60	72	60	81	44	66
Transformers	Cat. Nos. 0042 20/25	60	35·8	60	89	44	66
	Cat. Nos. 0042 51/52	60	71·5	60	89	44	66
	Cat. Nos. 0042 53/54	60	89	60	95	44	66

(1) Maximum projection

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

modular and SP fuse carriers
for HRC cylindrical fuses


0058 04


0058 28


0216 05

Dimensions (opposite)
Accessories (p. 382)

For HRC cylindrical fuses (see p. 383)

Pack	Cat. Nos.	Modular carriers for HRC type aM and gG fuses	Voltage ∿ (Volts)	No. of 17·5 mm modules
		Fix to DIN rail ⎍ EN 60715 Optional fuse blow out indication Equipped with label holder Padlockable using support Cat. No. 0057 99 Shielded terminals max. capacity 2 x 10 mm² Double insulated ⧈ Class II		
		Fuse size (mm)		
		Single pole		
10	0058 04	Disconnectable neutral	500	1
10	0058 06	8·5 x 31·5	400	1
10	0058 08	10 x 38	500	1
		Single pole + Neutral		
10	0058 16	8·5 x 31·5	400	1
10	0058 18	10 x 38	500	1
		Double pole		
5	0058 26	8·5 x 31·5	400	2
5	0058 28	10 x 38	500	2
		Triple pole		
3	0058 36	8·5 x 31·5	400	3
3	0058 38	10 x 38	500	3
		Triple pole + Neutral		
2	0058 46	8·5 x 31·5	400	4
2	0058 48	10 x 38	500	4

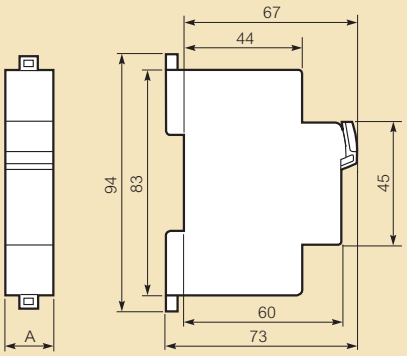
Pack	Cat. Nos.	SP 51 carriers for HRC type aM and gG fuses 14 x 51	Connection	No. of 17·5 mm modules
		Height under front plate : 44 mm Fix to DIN rail ⎍ EN 60715 or with screws		
5	0215 01	Single pole	1 x 35 mm²	1·5
1	0215 03	Double pole	or	3
1	0215 04	Triple pole	2 x 16 mm²	4·5
1	0215 05	Triple pole + disconnectable neutral		6

Pack	Cat. Nos.	SP 58 carriers for HRC type aM and gG fuses 22 x 58	Connection	No. of 17·5 mm modules
		Height under front plate : 44 mm Fix to DIN rail ⎍ EN 60715 or with screws		
3	0216 00	Disconnectable neutral		2
3	0216 01	Single pole	1 x 50 mm²	2
1	0216 04	Triple pole	or	6
1	0216 05	Triple pole + disconnectable neutral	2 x 25 mm²	8

modular and SP fuse carriers
for HRC cylindrical fuses

■ Modular fuse carriers

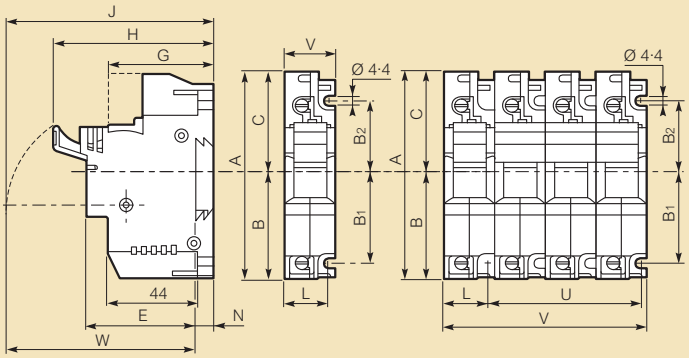
Conform to IEC 60269-2/2·1, isolation to IEC 60947-3
Icc : 20 kA with 8·5 x 31·5 fuse
100 kA with 10 x 38 fuse



In mm	A
Single pole	17·7
Single pole + N	17·7
Double pole	35·6
Triple pole	53·4
Triple pole + N	71·2

■ SP 51 and SP 58 fuse carriers

Conform to IEC 60269-2 and BS EN 60269-2
Bureau Veritas approved



In mm	A	B	B_1	B_2	C	E	G	H 1 P	H multi.	J 1 P
SP 51	106	54·5	45	35	51·5	55	53	81	84	96
SP 58	140	74	65	45	66	59	53	87	90	111

In mm	J multi.	L	N	U 2 P	U 3 P	U 4 P	V 1 P	V 2 P	V 3 P	V 4 P	W 1 P	W multi.
SP 51	99	20·7	9	26·5	53	79·5	26·5	53	79·5	106	87	90
SP 58	114	27	9	36	72	108	36	72	108	144	101	109

■ Choice of equipment

Type	Rated current	Maximum cartridge rating 400 V∿ gG	400 V∿ aM	500 V∿ gG	500 V∿ aM	690 V∿ gG	690 V∿ aM
SP 51	50 A	50	50	50	40	25	25
SP 58	100 A (125 A in 400 V)	125	125	100	100	50	50

■ Protection index : IP 2x - IP 2x C - under front plate

■ Equipment derating

Justified under more severe conditions of use :

- Ambient temperature over 35 °C : derate fuse by one rating per 10 °C (UTE C 20-051)
- Side-by-side equipment in simultaneous function

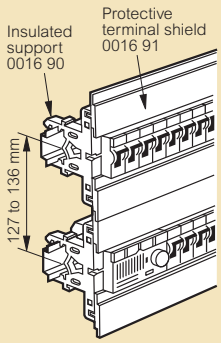
2 or 3 devices	0·9 x In
4 or 5 devices	0·8 x In
6, 7, 8 or 9 devices	0·7 x In
≥ 10 devices	0·6 x In

This coefficient is to be applied on the nominal rating of the base (IEC 60439-1)

- Continuous operation : it may be necessary to upgrade the bases by one size

■ Modular protective terminal shield mounting

(see p. 382)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

modular fuse carrier and device accessories


0044 40


0049 05


0049 26


0016 90


0016 91

Pack	Cat. Nos.	Modular fuse carrier accessories
10	0057 90	Fuse blow-out indicator
5	0057 91	Spare fuse holder 1 module width accepts 5 - 10 x 38 fuses
1	0057 96	NO/NC auxiliary contact fixes to side of fuse carrier (0·5 module width) 250 V~ 5 A rated
3	0057 99	Padlock support suitable for Ø 4 mm padlocks

Modular device accessories

Spacing elements

10	0044 40	For heat reduction - 0·5 module
5	0044 41	For heat reduction - 1 module


0044 41

Locking device

2	0044 42	Attachment for Ø 4 mm and Ø 6 mm padlocks for DX, DX-H, DX-D and DX-IS


0044 42

Padlock

3	0044 43	Ø 4 mm hasp


0044 43

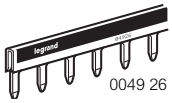
Entry terminals

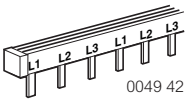
20	0049 05	Accepts conductors 4 – 25 mm² max for single pole busbars only IP 2x
20	0049 06	Accepts conductors 6 – 35 mm² max


0049 06

Supply busbars

20	0049 26	For 13 single pole units(1) Reversible blue/black
10	0049 37	For 57 single pole units(1) Reversible blue/black
5	0049 38	For 6 double pole units(2)(3)
10	0049 39	For 28 double pole units(2)(3)
5	0049 42	For 4 triple pole units(2)(3)
10	0049 43	For 19 triple pole units(2)(3)
3	0049 44	For 3 four pole units(2)(3)
5	0049 45	For 14 four pole units(2)(3)

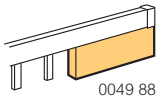

0049 26



0049 42

Insulation shroud

20	0049 88	For non-utilised busbar prongs


0049 88

Self-adhesive label holder

10	0049 96	Width : 16 mm Width available for marking : 12 mm Length 430 mm (24 modules)


0049 96

Grey blanking plate RAL 7035

20	0016 61	5 module, separable by single or half modules

Pack	Cat.Nos.	Modular device accessories (continued)
10	0016 90	**Insulated support** for protective terminal shield Clips on to rail EN 60715 ⊔
5	0016 91	**Protective terminal shield** Light grey Ensures the protection of wiring and terminals in modular mechanisms fitted in enclosures (Atlantic or Marina) Width 45 mm, Length 1 m Clips on to support 0016 90 (above)

(1) 16 mm² section rated at 80 A with central feed
(2) 10 mm² section rated at 63 A with central feed
(3) With insulated ends

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

cylindrical cartridge fuses


0102 63


0123 04



0123 12



0143 10



0153 96

Dimensions (p. 387)

Cylindrical miniature 5 x 20

Type F (fast acting) fuse
Ceramic body
Conform to IEC 60127-2
For use with sensitive equipment, transformers, Viking 3 terminals etc.

Pack	Cat. Nos.	Rating (Amps)	Voltage ∿ (Volts)	Rupture capacity (Amps)
10	0102 02	0·2		
10	0102 05	0·5		
10	0102 06	0·63		
10	0102 10	1		
10	0102 12	1·25		
10	0102 16	1·6		
10	0102 20	2	250	1 500
10	0102 25	2·5		
10	0102 30	3·15		
10	0102 50	5		
10	0102 63	6·3		
10	0102 96(1)	10	250	500

Cylindrical type gG

Conform to BS EN 60269-1, IEC 60269-1

Pack	Cat. Nos. Without indicator	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
		8·5 x 31·5		
10	0123 01	1		
10	0123 02	2		
10	0123 04	4		
10	0123 06	6		
10	0123 08	8	400	20 000
10	0123 10	10		
10	0123 12	12		
10	0123 16	16		

Cylindrical type gG industrial

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2 (BS 88)
IEC 60269-1, 2 and 2-1
Bureau Veritas approved

Pack	Cat. Nos. Without indicator	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
		10 x 38		
10	0133 94	0·5		
10	0133 01	1		
10	0133 02	2		
10	0133 04	4		
10	0133 06	6	500	100 000
10	0133 08	8		
10	0133 10	10		
10	0133 12	12		
10	0133 16	16		
10	0133 20	20		
10	0133 25	25		
		14 x 51		
10	0143 02	2		
10	0143 04	4		
10	0143 06	6		
10	0143 10	10		
10	0143 16	16	500	100 000
10	0143 20	20		
10	0143 25	25		
10	0143 32	32		
10	0143 40	40		
10	0143 50	50		
		22 x 58		
10	0153 04	4		
10	0153 06	6		
10	0153 10	10		
10	0153 16	16		
10	0153 20	20		
10	0153 25	25	500	100 000
10	0153 32	32		
10	0153 40	40		
10	0153 50	50		
10	0153 63	63		
10	0153 80	80		
10	0153 96	100		
10	0153 97	125	400	

Neutral links

Pack	Cat. Nos.	
10	0123 00	8·5 x 31·5
10	0133 00	10 x 38
10	0143 00	14 x 51
10	0153 00	22 x 58

Note : Numbers refer to physical size of fuse i.e. 10 x 38 means Ø 10 mm x 38 mm length

Fuses with strikers are available on special request in specific ratings
Minimum pack quantities apply



For other ratings and types

Contact us on 0845 605 4333

(1) Overrating not described by standards

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

cylindrical cartridge fuses (continued)


0120 04


0130 08


0140 12


0150 80


0113 10


0123 20


0133 32


0123 00


0143 00

Dimensions (p. 387)

Cylindrical type aM motor rated

Conform to BS EN 60269-1 (BS 88)
IEC 60269-1
Bureau Veritas approved

Pack	Cat. Nos. Without striker	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
		8·5 x 31·5		
10	0120 01	1		
10	0120 02	2		
10	0120 04	4	400	20 000
10	0120 06	6		
10	0120 08	8		
10	0120 10	10		

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and IEC 60269-1, 2 and 2-1
Bureau Veritas approved

Pack	Cat. Nos. Without striker	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
		10 x 38		
10	0130 92	0·25		
10	0130 95	0·50		
10	0130 01	1		
10	0130 02	2		
10	0130 04	4		
10	0130 06	6	500	100 000
10	0130 08	8		
10	0130 10	10		
10	0130 12	12		
10	0130 16	16		
10	0130 20[1]	20	400	
10	0130 25[1]	25	400	
		14 x 51		
10	0140 04	4		
10	0140 06	6		
10	0140 10	10		
10	0140 12	12	500	100 000
10	0140 16	16		
10	0140 20	20		
10	0140 25	25		
10	0140 32	32		
10	0140 40	40		
10	0140 45	45	400	
10	0140 50	50	400	

Cylindrical type aM motor rated *(continued)*

HRC (high rupturing capacity)
Conform to BS EN 60269-1 (BS 88)
IEC 60269-1, 2 and 2-1
Bureau Veritas approved

Pack	Cat. Nos. Without striker	Cat. Nos. With striker	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
			22 x 58		
10	0150 32	0151 32	32	500	100 000
10	0150 40	0151 40	40		
10	0150 50	0151 50	50		
10	0150 63	0151 63	63		
10	0150 80	0151 80	80		
10	0150 96	0151 95	100		
10	0150 97	0151 97	125	400	

Cylindrical domestic

Conform to NF C 15-100

Pack	Cat. Nos. Without indicator	Rating (Amps)	Voltage ∿ (Volts)	Rupture capacity (Amps)	Protected section (mm²) copper	Colour code
		8·5 x 23				
10	0113 10	10	230	6 000	1·5	
		8·5 x 31·5				
10	0123 20	20	400	2 000	2·5	
		10·3 x 38				
10	0133 32	32	400	20 000	6	

Neutral links

Pack	Cat. Nos.	
10	0123 00	8·5 x 31·5
10	0133 00	10 x 38
10	0143 00	14 x 51
10	0153 00	22 x 58

Note : Numbers refer to physical size of fuse i.e. 10 x 38 means Ø 10 mm x 38 mm length

(1) Overrating not described by standards



For other ratings and types

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

blade type cartridge fuses
NH type


0163 35


0168 50


0185 30


0165 55


0163 04


0168 04

Dimensions (p. 387)

Type gG (IEC)/gL (VDE)

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2,
IEC 60269-1,2 and 2-1, VDE 0636-21
Bureau Veritas approved

Pack	Cat. Nos. With indicator	Cat. Nos. With striker	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
			Size 00		
10	0163 18		25	500	120 000
10	0163 20		32		
10	0163 25		40		
10	0163 30		50		
10	0163 35		63		
10	0163 40		80		
10	0163 45		100		
10	0163 50		125		
10	0163 55		160		
			Size 0		
3	0168 45		100	500	120 000
3	0168 50		125		
3	0168 55		160		
3	0168 60[1]		200		
			Size 1		
3	0173 50		125		
3	0173 55		160	500	120 000
3	0173 60	0174 60	200		
3	0173 65	0174 65	250		
			Size 2		
3	0178 60		200		
3	0178 65		250	500	120 000
3	0178 70		315		
3	0178 75		400		
			Size 3		
3	0181 25		500	500	120 000
3	0181 30		630		
			Size 4		
1	0185 30		630		
1	0185 35		800	500	120 000
1	0185 40		1 000		
1	0185 45[1]		1 250		

Type aM (motor rated)

HRC (high rupturing capacity)
Conform to BS EN 60269-1 and 2,
IEC 60269-1,2 and 2-1, VDE 0636-21
Bureau Veritas approved

Pack	Cat. Nos. With indicator	Rating (Amps)	Voltage ∿ (Volts)	Breaking capacity (Amps)
		Size 00		
3	0160 18	25	500	120 000
3	0160 20	32	500	120 000
3	0160 25	40		
3	0160 30	50		
3	0160 35	63		
3	0160 40	80		
3	0160 45	100		
3	0160 50	125	400	
		Size 0		
3	0165 35	63		
3	0165 40	80		
3	0165 45	100	500	120 000
3	0165 50	125		
3	0165 55	160		
		Size 1		
3	0170 50	125		
3	0170 55	160	500	120 000
3	0170 60	200		
3	0170 65	250		
		Size 2		
3	0175 60	200	500	120 000
3	0175 65	250		
3	0175 70	315		
3	0175 75	400		

Neutral blades

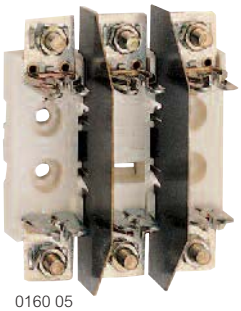
10	0163 04	Size 00 with plastic shrouding
1	0168 04	Size 0
1	0173 04	Size 1
1	0178 04	Size 2
1	0181 04	Size 3

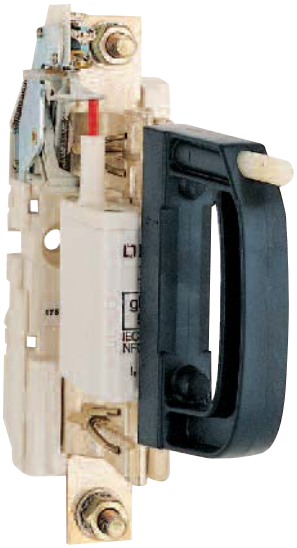
(1) Overrating not described by standards

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

blade type cartridge fuses
accessories


0160 00


0160 05


0175 02 + cartridge fuse Cat. Nos. 0179 70 + handle 0199 02


0199 16



Detail 0199 22

Dimensions (p. 387)

Bases for blade type cartridge fuses

Conform to BS EN 60269-1 and 2, IEC 60269-1,2 and 2-1, VDE 0636-21 Bureau Veritas approved

Triple pole bases supplied with 2 dividers
Contact points are sprung except for size 4 which has bolts
Bases with 10 A – 250 V~ micro-switch have a "cartridge present" signalling device for fuses with standardised striker

Size 00 – 100 A

Pack	Cat. Nos. Single pole	Cat. Nos. Triple pole	Bases	Mounting	Connection
3	0160 00		–	screw	M8
1		0160 04	–	screw	
3	0160 01		–	⎵ rail	
1		0160 05	–	⎵ rail	
Size 00 – 160 A					
3	0162 00		–	screw	M8
1		0162 04	–	screw	M8
Size 0 – 160 A					
3	0165 00		–	screw	M8
1		0165 03	–	or	
3	0165 02		with micro-switch	⎵ rail	
Size 1 – 250 A					
3	0170 00		–	screw	M10
1		0170 03	–	or	
1	0170 02		with micro-switch	⎵ rail	
Size 2 – 400 A					
3	0175 00		–	screw	M10
1		0175 03	–	or	
1	0175 02		with micro-switch	⎵ rail	

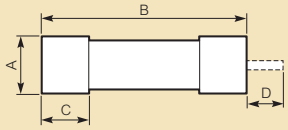
Size 3 and 4 bases available - please contact us on 0845 605 4333

Accessories for blade type cartridge fuses

Pack	Cat. Nos.	
5	0199 02	**Handle** for all sizes
		Separation dividers
10	0199 09	Size 00 (for Cat. Nos. 0160 00/01 and Cat. No. 0162 00)
10	0199 15	Size 0
10	0199 16	Size 1
10	0199 17	Size 2
		Terminal shields
		For enhanced protection of blade type cartridge fuse
10	0199 20	Size 00
10	0199 21	Size 0
10	0199 22	Size 1
10	0199 23	Size 2

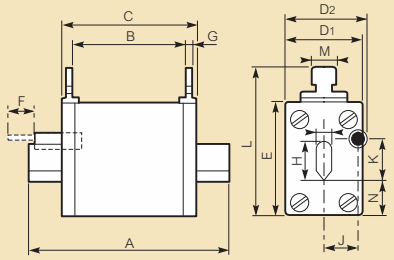
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Cylindrical fuses (p. 383-384)



Size	A	B	C	D
8·5 x 31·5 (mm)	8·5	31·5	6·3	–
10 x 38 (mm)	10·3	38	10	–
14 x 51 (mm)	14·3	51	13	7·5
22 x 58 (mm)	22·2	58	16	7·5

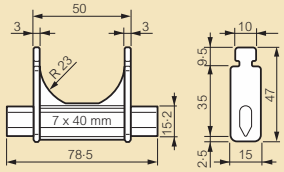
■ Blade type fuses (p. 385)



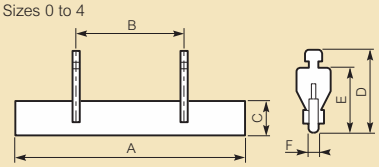
Size	00	0	1	2	3	4
A (mm)	78	125	135	150	150	200
B (mm)	44	62	64	64	61	61
C (mm)	52	67	74	74	75	78
D_1 (mm)	30	36	47	50	70	90
D_2 (mm)	–	39	47	50	64	77
E (mm)	46	46	52	60	75	107
F (mm)	–	14	14	14	14	14
G (mm)	2·5	2·5	3	3	2·5	2·5
H (mm)	15	15	21	28	36	60
I (mm)	6	6	6	6	6	8
J (mm)	–	14·5	16	19	23	27
K (mm)	–	14·5	14·5	14·5	14·5	14·5
L (mm)	59	59	64	72	88	119
M (mm)	10	10	10	10	10	10
N (mm)	14·5	14·5	14·5	14·5	18	23

■ Neutral blades (p. 385)

Size 00

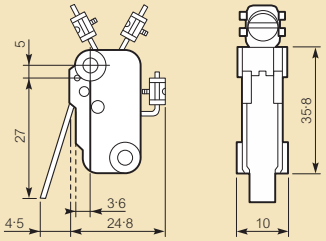


Sizes 0 to 4



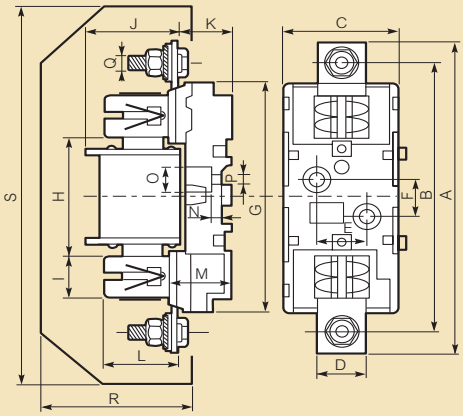
Size	0	1	2	3	4
A (mm)	125	135	150	150	200
B (mm)	65	65	65	65	65
C (mm)	15	20	26	38	50
D (mm)	45	50	58	66·5	78
E (mm)	35	40	48	56·5	68
F (mm)	6	6	6	6	6

■ Micro-switch 10 A – 250 V∿



■ Bases for blade type fuses (p. 386)

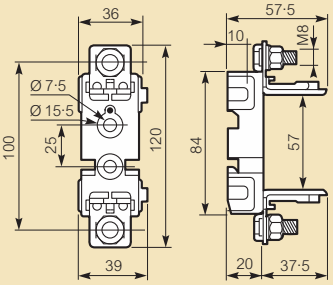
Bare



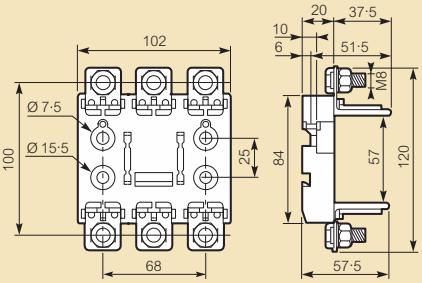
Size	00	0	1	2	3	4
A (mm)	120	171	200	225	250	320
B (mm)	100	150	175	200	210	270
C (mm)	36	47	59	67	82	114
D (mm)	24	20	25	30	41	51
E (mm)	–	–	30	30	30	45
F (mm)	25	25	25	25	25	30
G (mm)	120	125	150	170	158	220
H (mm)	57	75	80	80	83	98
I (mm)	11	23	28	32	35	50
J (mm)	63	68	68	83	92	125
K (mm)	20	24	35	35	35	40
L (mm)	35	43	46	58	68	93
M (mm)	22·5	28	38	39	40	40
N (mm)	12	11·5	13·5	13·5	14	14
O (mm)	15	14	20	20	20	28
P (mm)	7	7·5	10·5	10·5	10·5	13
Q (mm)	8	8	10	10	12	16
R (mm)	84	96	107	121	110	138
S (mm)	125	180	224	240	266	336

■ Size 00 fixing on rail ⊔ (p. 386)

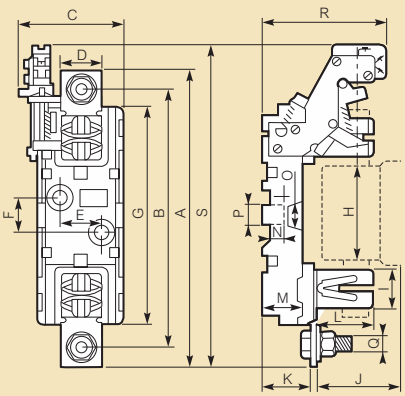
Single pole



Triple pole

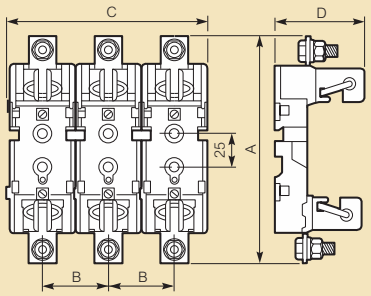


■ With micro-switch (p. 386)



Size	0	1	2	3	4
A (mm)	171	200	225	250	320
B (mm)	150	175	200	210	270
C (mm)	63	72	78	91	114
D (mm)	20	25	30	41	51
E (mm)	–	30	30	30	45
F (mm)	25	25	25	25	30
G (mm)	125	150	170	158	220
H (mm)	75	80	80	83	98
I (mm)	23	28	32	35	50
J (mm)	68	68	83	92	125
K (mm)	24	35	35	35	40
L (mm)	43	46	58	68	93
M (mm)	28	38	39	40	40
N (mm)	11·5	13·5	13·5	14	14
O (mm)	14	20	20	20	28
P (mm)	7·5	10·5	10·5	10·5	13
Q (mm)	8	10	10	12	16
R (mm)	75	85	90	94	105·5
S (mm)	198	215	229	242	280

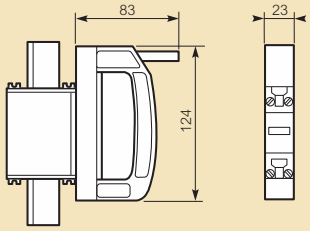
Triple pole (p. 386)



Size	0	1	2
A (mm)	171	200	225
B (mm)	48	62·5	68
C (mm)	144	180	204
D (mm)	67	81	93

■ Removable handle (p. 386)

For sizes 00 - 0 - 1 - 2 - 3 and 4



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Enclosures and equipment

Atlantic steel


P. 390 Selection chart


P. 392 Wall mounting steel enclosures IP 55 - IK 10


P. 393 Wall mounting steel enclosures with glass window IP 55 - IK 10

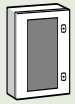

P. 393 Equipment and accessories


P. 394 Dimensions

Atlantic stainless steel


P. 390 Selection chart


P. 396 Wall mounting stainless enclosures IP 66 - IK 10


P. 396 Wall mounting stainless enclosures with glass window IP 66 - IK 10


P. 397 Dimensions

Marina GRP


P. 390 Selection chart

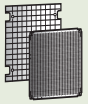

P. 398 Wall mounting GRP enclosures IP 66 - IK 10

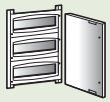

P. 398 Wall mounting GRP enclosures with glass window IP 66 - IK 10


P. 399 Dimensions


P. 400 Free standing GRP enclosures IP 66 - IK 10

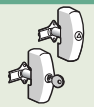
Equipment and locking accessories


P. 401 Mounting plates


P. 401 Internal doors and insulated modular chassis

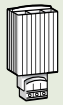

P. 402 Equipment and accessories


P. 403 Dimensions


P. 404 Locking accessories

Enclosure air conditioning


P. 405 Ventilation fan kits


P. 405 Ventilation and heating


P. 406 Operating principles and dimensions

Industrial plastic boxes


P. 409 Selection chart


P. 410 PS range with membrane glands IP 55 - IK 07


P. 411 PS and PP range with smooth sides IP 55 - IK 07


P. 411 PC range with smooth sides IP 66 - IK 08


P. 413 PVC range with smooth sides IP 55 - IK 07/08

New in 2007



Atlantic steel wall mounting enclosures RAL 7035

(p. 392)



Marina wall mounting and free standing enclosures RAL 7035

(p. 398)



Ventilation and heating

(p. 405)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Atlantic and Marina enclosures and equipment

EXTERNAL DIMENSIONS (nominal)				ATLANTIC ENCLOSURES				MARINA ENCLOSURES		EQUIPMENT								
				STEEL IP 55 - IK 10		STAINLESS STEEL IP 66 - IK 10		POLYESTER (GRP) IP 66 - IK 10										
				GREY RAL 7035	GREY RAL 7035 with window	Stainless 304 L	Stainless 304 L with window	GREY RAL 7035	GREY RAL 7035 with window	Plain plates pre-galv. steel	Lina 12·5 perforated plates	Lina 25 perforated plates	Lina 25 sectioned uprights	Lina 25 crosspieces	Modular chassis	Internal doors	Roofs	Plinths
Shape	H (mm)	W (mm)	D (mm)															
	400	300	150	0355 09(1)						0360 52	0360 04	0360 12	0361 51	0367 80		0363 59(3)		
	300	200	160	0355 00(1) Supplied with plain plate		0352 00 Supplied with plain plate		0362 50		0360 49(M) 0360 50(A)	0360 00(A) 0360 01(M)	0360 07(A)	0361 50(A)					
	400	300	200	0355 02	0354 92	0352 01	0352 21	0362 51	0362 71	0360 52	0360 04	0360 12	0361 51	0367 80	0361 01	0363 59(3)		
	500	400	200	0355 03	0354 93	0352 02	0352 22	0362 52	0362 72	0360 55	0360 09	0360 15	0361 52	0367 81	0361 02	0363 60(3)		
	600	400	200	0355 04		0352 03	0352 23			0360 56	0360 22	0360 16	0361 53	0367 81		0363 61(3)		
	500	400	250	0355 07						0360 55	0360 09	0360 15	0361 52	0367 81		0363 60(3)		
	600	400	250	0355 08	0354 94	0352 05	0352 25	0362 55	0362 75	0360 56	0360 22	0360 16	0361 53	0367 81	0361 03	0363 61(3)		
	700	500	250	0355 12	0354 95	0352 06	0352 26	0362 56	0362 76	0360 58	0360 31	0360 18	0361 54	0367 82	0361 05	0363 62(3)	0362 93(M)	
	800	600	250	0355 14						0360 59	0360 33	0360 19	0361 55	0367 83		0363 63(3)		
	1000	600	250	0355 17						0360 54	0360 40	0360 23	0361 56	0367 83				
	1000	800	250	0355 18						0360 61	0360 42	0360 21	0361 56	0367 84		0363 64(3)		
	700	500	300	0355 22						0360 58	0360 31	0360 18	0361 54	0367 82		0363 62(3)		
	800	600	300	0355 23	0354 96	0352 11	0352 31	0362 61	0362 81	0360 59	0360 33	0360 19	0361 55	0367 83	0361 06	0363 63(3)	0362 94(M)	0363 00(A) 0362 91(M)
	1000	600	300	0355 26						0360 54	0360 40	0360 23	0361 56	0367 83				0363 00
	1000	800	300	0355 27	0354 97	0352 13	0352 33	0362 63	0362 83	0360 61	0360 42	0360 21	0361 56	0367 84	0361 09	0363 64(3)	0362 95(M)	0363 01(A) 0362 92(M)
	1200	800	300	0355 92		0352 14		0362 64	0362 84	0360 64	0360 46	0360 87	0361 58	0367 84	0361 10	0363 65(3)	0362 95(M)	0363 01(A) 0362 92(M)
	1200	1000	300	0355 93(2)						0360 65	0360 47	0360 88	0361 58	0367 85				0363 02
	1400	1000	300	0355 95(2)						0360 68	0360 79	0360 98	0361 59	0367 85				0363 02
	800	600	400	0355 28						0360 59	0360 33	0360 19	0361 55	0367 83		0363 63(3)		0363 40
	1000	800	400	0355 29						0360 61	0360 42	0360 21	0361 56	0367 84		0363 64(3)		0363 41
	1200	800	400	0355 96						0360 64	0360 46	0360 87	0361 58	0367 84		0363 65(3)		0363 41
	1400	800	400	0355 98		0352 15				0360 67	0360 75	0360 90	0361 59	0367 84				0363 41
	300	300	150	0355 05(1)						0360 69	0360 02	0360 91	0361 50	0367 80				
	300	300	200	0355 30						0360 69	0360 02	0360 91	0361 50	0367 80				
	400	400	200	0355 31						0360 70	0360 05	0360 92	0361 51	0367 81				
	500	500	250	0355 32						0360 71	0360 14	0360 93	0361 52	0367 82				
	600	600	250	0355 10						0360 57	0360 24	0360 17	0361 53	0367 83				
	800	800	250	0355 15						0360 60	0360 34	0360 20	0361 55	0367 84				
	600	600	300	0355 20						0360 57	0360 24	0360 17	0361 53	0367 83				0363 00
	800	800	300	0355 24						0360 60	0360 34	0360 20	0361 55	0367 84				0363 01
	1000	1000	300	0355 91(2)						0360 63	0360 43	0360 25	0361 56	0367 85				0363 02
	1200	1200	300	0355 94(2)						0360 66	0360 48	0360 89	0361 58	0367 86				0363 03
	600	600	400	0355 36						0360 57	0360 24	0360 17	0361 53	0367 83				0363 40
	1200	1200	400	0355 97(2)						0360 66	0360 48	0360 89	0361 58	0367 86				0363 43
	300	400	200	0355 01						0360 52(4)	0360 04	0360 11	0361 50	0367 81				
	400	600	250	0355 06						0360 56(4)	0360 22	0360 13	0361 51	0367 83				
	800	1000	250	0355 33(2)						0360 61(4)	0360 42	0360 94	0361 55	0367 85				
	600	800	300	0355 21(2)						0360 59(4)	0360 33	0360 06	0361 53	0367 84				0363 01
	600	1000	300	0355 37(2)						0360 54(4)	0360 40	0360 08	0361 53	0367 85				0363 02
	800	1000	300	0355 34(2)						0360 61(4)	0360 42	0360 94	0361 55	0367 85				0363 02
	1000	1200	300	0355 90(2)						0360 65(4)	0360 47	0360 10	0361 56	0367 86				0363 03

(1) Without gland plate (2) 2 doors (3) Requires Cat. No. 0363 69 when mounting in Atlantic steel (A) For Atlantic (M) For Marina
(4) From mid 2007 the same plate is used for both vertical and horizontal enclosures

ASSOCIATED PRODUCTS



Document pocket (p. 402)



Locks (p. 404)



Marina free standing polyester (GRP) IP 66 - IK 10 grey RAL 7035 (p. 400)



Ventilation kit (p. 405)



Heaters and thermostat (p. 405)



Chassis kits (p. 401)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The right material for your environment

Legrand's range of industrial enclosures has been designed to the highest specification, providing both the panel builder and the user with much more than just a box.

STEEL



Atlantic steel enclosures are suitable for non-corrosive commercial and industrial environments.



STAINLESS STEEL



Manufactured from 304L grade steel (and 316L grade on request), Atlantic stainless steel enclosures are ideally suited to the food industry.



GRP



Marina GRP enclosures provide the ideal choice for saline atmospheres or other environments where metal would degrade.



Atlantic steel wall mounting enclosures

IP 55 - IK 10 - Nema 4x - Nema 12



Technical information and dimensions (p. 394-395)
Equipment (p. 401)

IP 55 according to IEC 60529, IK 10 according to IEC 62262
UL listed (1 door Nema 4x, 2 door Nema 12)
CSA, Bureau Véritas, TUV, GÖST
EMC attenuation 20 dB
60 µ thick textured polyester coating provides excellent resistance to corrosion and chemical agents
Automatic positioning of equipment on to active corners with M8 fixings (see technical p. 395)
Reversible door and single lock with 2 x 2433 A keys irrespective of size
300 mm high enclosures have key closure (no handle)
One, two or three closing points depending on size
Enclosures of 500 mm high and above have door uprights
Polyurethane door seal and gutter to shed water
Gland plate (except Cat. No. 0355 00/05/09)
Provision to fix optional runners and brackets for depth adjustment in enclosures from 600 x 600 mm

Enclosures grey RAL 7035

Pack	Cat. Nos.	Nominal external dimensions (mm) Height x Width x Depth(1)	Weight (kg)	Number of doors
1	0355 05	300 x 300 x 150(3)	4·1	1
1	0355 09	400 x 300 x 150	6·3	1
1	0355 00	300 x 200 x 160(2)	4·2	1
1	0355 30	300 x 300 x 200(3)	4·2	1
1	0355 01	300 x 400 x 200(3)	6·5	1
1	0355 02	400 x 300 x 200	6·5	1
1	0355 31	400 x 400 x 200	7·7	1
1	0355 03	500 x 400 x 200	9·7	1
1	0355 04	600 x 400 x 200	10·7	1
1	0355 06	400 x 600 x 250	11·7	1
1	0355 07	500 x 400 x 250	10·7	1
1	0355 32	500 x 500 x 250	11·5	1
1	0355 08	600 x 400 x 250	12	1
1	0355 10	600 x 600 x 250	16·3	1
1	0355 12	700 x 500 x 250	16·5	1
1	0355 14	800 x 600 x 250	18·8	1
1	0355 15	800 x 800 x 250	21·6	1
1	0355 33	800 x 1 000 x 250	27	2
1	0355 17	1 000 x 600 x 250	24	1
1	0355 18	1 000 x 800 x 250	36·4	1
		The following enclosures can be mounted on to 200 mm high plinths (see p. 393)		
1	0355 20	600 x 600 x 300	21·1	1
1	0355 21	600 x 800 x 300	28·8	2
1	0355 37	600 x 1 000 x 300	33·3	2
1	0355 22	700 x 500 x 300	23	1
1	0355 23	800 x 600 x 300	28·8	1
1	0355 24	800 x 800 x 300	34·2	1
1	0355 34	800 x 1 000 x 300	32	2
1	0355 26	1 000 x 600 x 300	33·3	1
1	0355 27	1 000 x 800 x 300	42	1
1	0355 91	1 000 x 1 000 x 300	53	2
1	0355 90	1 000 x 1 200 x 300	62·2	2
1	0355 92	1 200 x 800 x 300	49·6	1
1	0355 93	1 200 x 1 000 x 300	62·2	2
1	0355 94	1 200 x 1 200 x 300	70	2
1	0355 95	1 400 x 1 000 x 300	71	2
1	0355 36	600 x 600 x 400	28	1
1	0355 28	800 x 600 x 400	31	1
1	0355 29	1 000 x 800 x 400	45	1
1	0355 96	1 200 x 800 x 400	57	1
1	0355 97	1 200 x 1 200 x 400	77	2
1	0355 98	1 400 x 800 x 400	64	1

(1) Depth excluding lock
(2) Supplied with plain plate and key closure (no handle)
(3) Key closure (no handle)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Atlantic steel wall mounting enclosures
IP 55 - IK 10 - Nema 4x - Nema 12 (continued)



0354 93



0355 23 + plinth 0363 00

Technical information and dimensions (p. 394-395)
Equipment (p. 401)

Enclosures grey RAL 7035 with tempered glass window

Tinted tempered glass window
Single lock with 2 x 2433 A keys

Pack	Cat. Nos.	External dimensions (mm) Height x Width x Depth	Window dimensions (mm) Height x Width	Weight (kg)
1	0354 92	400 x 300 x 200	300 x 128	6
1	0354 93	500 x 400 x 200	400 x 228	8
1	0354 94	600 x 400 x 250	500 x 228	10
1	0354 95	700 x 500 x 250	600 x 328	15
1	0354 96	800 x 600 x 300	700 x 428	25
1	0354 97	1 000 x 800 x 300	850 x 628	36

Plinths anthracite grey RAL 7021

Height 200 mm

For enclosures depth 300 mm

Pack	Cat. Nos.	For enclosures Width x Depth (mm)	Weight (kg)
1	0363 00	600 x 300	6
1	0363 01	800 x 300	6·7
1	0363 02	1 000 x 300	7·4
1	0363 03	1 200 x 300	10·1

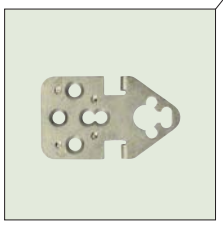
For enclosures depth 400 mm

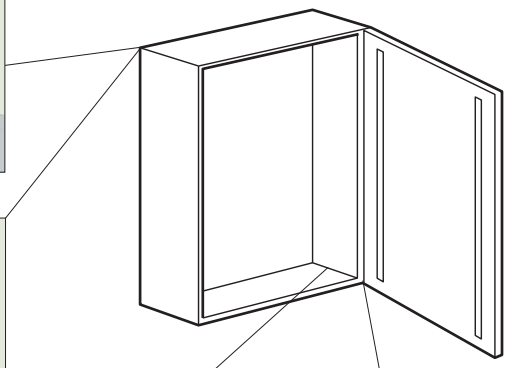
Pack	Cat. Nos.	For enclosures Width x Depth (mm)	Weight (kg)
1	0363 41	800 x 400	10·2
1	0363 43	1 200 x 400	13·6

Roofs available on request

Atlantic steel wall mounting enclosures
equipment and accessories


0364 01


0364 04




0367 44


0347 95

Pack	Cat. Nos.	Set of 4 wall mounting brackets
10	0364 01	Mazak brackets with cover - 300 kg max. load Vertical or horizontal fixing except if fitted with canopy (horizontal fixing only)
1	0364 04	Steel brackets - 100 kg max. load Vertical or horizontal fixing Anti-corrosion treated steel

Set of 4 runners and brackets with fixings for depth adjustment

Pack	Cat. Nos.	
1	0367 43	For enclosures of depth 250 mm (from 600 x 600 mm)
1	0367 44	For enclosures of depth 300 mm
1	0367 45	For enclosures of depth 400 mm

Earth braids

Provide earth continuity between door and enclosure body

Pack	Cat. Nos.	Cross-section (mm^2)	Length between fixing centres (mm)	Holes Ø (mm)
20	0347 95	6	200	8·5
20	0347 96	16	200	8·5

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Atlantic steel wall mounting enclosures
IP 55 - IK 10

■ Technical information

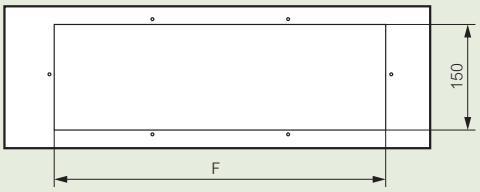
RAL 7035 polyester coated steel with corrosion resistant metal hinges and closure parts, suitable for general industrial environments except in areas having excessive corrosion

Properties of the polyester coating

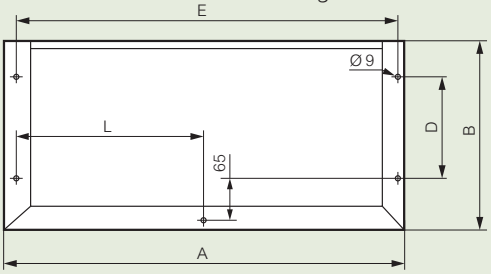
- Polyester coating process :
  - iron phosphatisation provides good adherence
  - neutralisation of above
  - chromium passivated for corrosion resistance, neutralisation
  - application of a pure polyester coating by electrostatic dusting
- Coating thickness : 80 µm (microns)
- Mechanical characteristics : obtained on steel test bars 8/10 and 10/10 :
  - adhesion (chequer pattern and sellotape) - EN ISO 2409 : Class 0 to 1
  - Persoz hardness - EN ISO 1522 : 320 seconds
  - bending on cylindrical mandrel - EN ISO 1519 : 6 mm - cracks
  - Ericksen embossing - EN ISO 1520 : 8 mm
  - resistance to shock - EN ISO 6272-1 : 1 kg - 50 cm
- Resistance to environmental conditions :
  - saline mist - (BS) NSS Laboratory to ISO 9227 and Kq Laboratory to EN 60068-2-11 : 1 000 hours
  - sulphur dioxide SO2 : 500 hours
  - heat : 100 °C for 168 hours - very good lustre retention
    150 °C for 3 hours - very good lustre retention
  - cold : –40 °C

■ Plinths

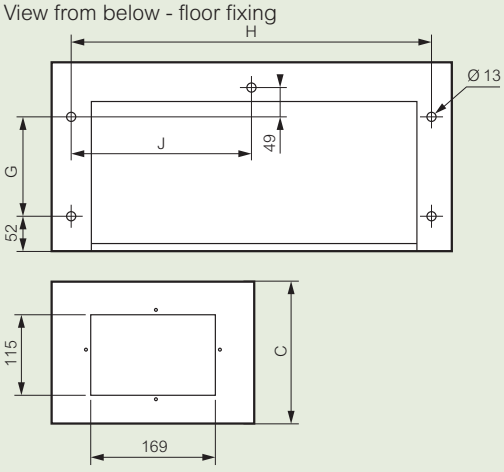
Front aperture



View from above - enclosure fixing



View from below - floor fixing

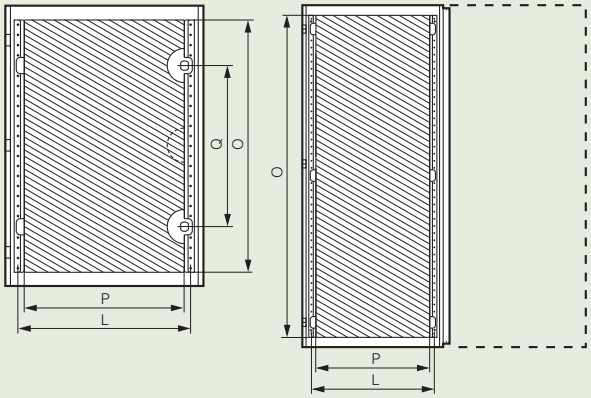


Cat. Nos.	Dimensions (mm)	A	B	C	D	E	F	G	H	J	L
0363 00	600 x 300	600	280	200	150	574	469	150	542	271	287
0363 01	800 x 300	800	280	200	150	774	469	150	742	371	387
0363 02	1 000 x 300	1 000	280	200	150	974	369 x 2	150	942	471	487
0363 03	1 200 x 300	1 200	280	200	150	1 174	469 x 2	150	1 142	571	587
0363 41	800 x 400	800	380	200	250	774	469	250	742	371	387
0363 43	1 200 x 400	1 200	380	200	250	1 174	469 x 2	250	1 142	571	587

■ Dimensions

Usable door surface area and lock positions/guides

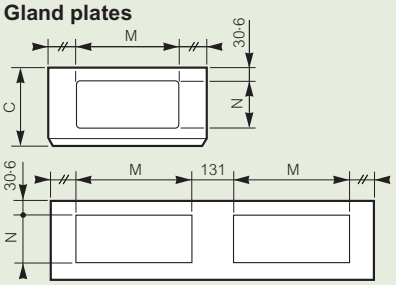
1 door 2 doors



Cat. Nos.	Enclosures Height (mm)	Enclosures Width (mm)	Usable door area Height O (mm)	Usable door area Width P (mm)	Lock position Q (mm)	Upright sections L (mm)
0355 00	300	200	251	148	(1)	(3)
0355 05/30	300	300	251	248	(1)	(3)
0355 01	300	400	251	348	(1)	(3)
0355 02/09	400	300	351	248	(1)	(3)
0355 31	400	400	351	348	(1)	(3)
0355 06	400	600	325	500	(1)	530
0355 03/07	500	400	425	300	(1)	330
0355 32	500	500	425	400	(1)	430
0355 04/08	600	400	525	300	350(2)	330
0355 10/20/36	600	600	525	500	350(2)	530
0355 21	600	800	525	300 x 2	(1)	330
0355 37	600	1 000	525	400 x 2	(1)	430
0355 12/22	700	500	625	400	400(2)	430
0355 14/23/28	800	600	725	500	500(2)	530
0355 15/24	800	800	725	700	500(2)	730
0355 33/34	800	1 000	725	400 x 2	(1)	430
0355 17/26	1 000	600	925	500	(1)	530
0355 18/27/29	1 000	800	925	700	(1)	730
0355 91	1 000	1 000	925	400 x 2	(1)	430
0355 90	1 000	1 200	925	500 x 2	(1)	530
0355 92/96	1 200	800	1 125	700	(1)	730
0355 93	1 200	1 000	1 125	400 x 2	(1)	430
0355 94/97	1 200	1 200	1 125	500 x 2	(1)	530
0355 98	1 400	800	1 325	700	(1)	730
0355 95	1 400	1 000	1 325	400 x 2	(1)	430

(1) Central lock (2) Top or bottom lock (3) Without upright sections

Gland plates



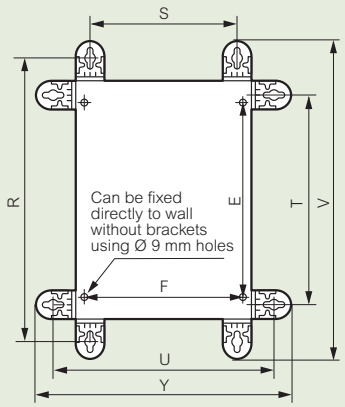
Metal thickness	
Door	≤ 600mm H = 1·3mm 700mm H = 1·5mm ≥ 800mm H = 1·8mm
Sides	all 1·3mm
Back	≤ 600x400mm = 0·8mm ≥ 600x600mm = 1·3mm

Width (mm)	Enclosures Depth (mm)	External depth without lock C (mm)	Usable space for glands M (mm)	Usable space for glands N (mm)	No. of gland plates
200	160	170	–	–	–
300	150	160	–	–	–
300	200	210	169	115	1
400	200	210	269	115	1
400	250	260	269	115	1
500	250	260	369	150	1
500	300	310	369	150	1
600	250	260	469	150	1
600	300	310	469	150	1
600	400	410	469	150	1
800	250	260	469	150	1
800	300	310	469	150	1
800	400	410	469	150	1
1 000	250	260	369	150	2
1 000	300	310	369	150	2
1 200	300	310	469	150	2
1 200	400	410	469	150	2

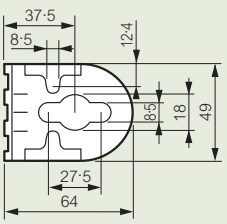
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions (continued)

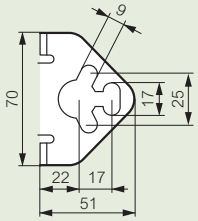
Wall bracket fixing positions



Cat. No. 0364 01



Cat. No. 0364 04

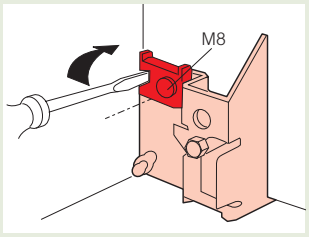


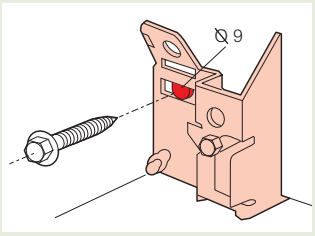
Enclosures Height (mm)	Enclosures Width (mm)	Vertical wall brackets R (mm)	Vertical wall brackets S*(mm)	Fixing centres E (mm)	Horizontal wall brackets T*(mm)	Horizontal wall brackets U (mm)	Fixing centres F (mm)	Overall dimensions 0364 01 V (mm)	Overall dimensions 0364 01 Y (mm)	Overall dimensions 0364 04 V (mm)	Overall dimensions 0364 04 Y (mm)
300	**200**	375	150	225	250	275	169	430	330	402	302
300	**300**	375	250	225	250	375	269	430	430	402	402
300	**400**	375	350	225	250	475	369	430	530	402	502
400	**300**	475	250	325	350	375	269	530	430	502	402
400	**400**	475	350	325	350	475	369	530	530	502	502
400	**600**	475	550	325	350	675	569	530	730	502	702
500	**400**	575	350	425	450	475	369	630	530	602	502
500	**500**	575	450	425	450	575	469	630	630	602	602
600	**400**	675	350	525	550	475	369	730	530	702	502
600	**600**	675	550	525	550	675	569	730	730	702	702
600	**800**	675	750	525	550	875	769	730	930	702	902
600	**1 000**	675	950	525	550	1 075	969	730	1 130	702	1 102
700	**500**	775	450	625	650	575	469	830	630	802	602
800	**600**	875	550	725	750	675	569	930	730	902	702
800	**800**	875	750	725	750	875	769	930	930	902	902
800	**1 000**	875	950	725	750	1 075	969	930	1 130	902	1 102
1 000	**600**	1 075	550	925	950	675	569	1 130	730	1 102	702
1 000	**800**	1 075	750	925	950	875	769	1 130	930	1 102	902
1 000	**1 000**	1 075	950	925	950	1 075	969	1 130	1 130	1 102	1 102
1 000	**1 200**	1 075	1 150	925	950	1 275	1 169	1 130	1 330	1 102	1 302
1 200	**800**	1 275	750	1 125	1 150	875	769	1 330	930	1 302	1 102
1 200	**1 000**	1 275	950	1 125	1 150	1 075	969	1 330	1 130	1 302	1 302
1 200	**1 200**	1 275	1 150	1 125	1 150	1 275	1 169	1 330	1 330	1 302	1 302
1 400	**800**	1 475	750	1 325	1 350	875	769	1 530	930	1 502	902
1 400	**1 000**	1 275	1 150	1 325	1 350	1 075	969	1 530	1 130	1 502	1 102

* Same for Cat. No. 0364 01 and 0364 04

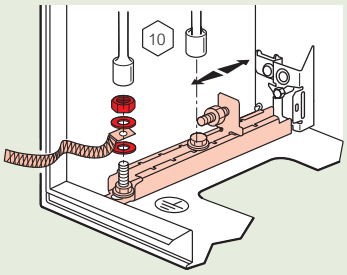
Active corner

Provides quick and easy fixing
Transfers equipment weight to wall fixings



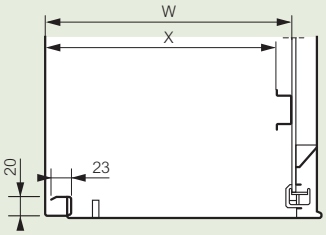


Fixing method for runners and depth adjustment brackets (p. 393)

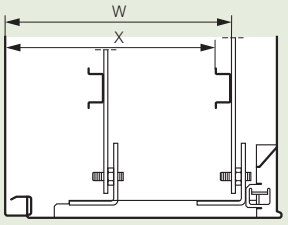


Adjustment of equipment

Without runners



With runners fitted (optional)



Enclosure Depth (mm)	Without runners W (mm)	Without runners X (mm)
160	140	125
200	180	165
250	230	215
300	280	265
400	380	365

Enclosure Depth (mm)	With runners Runner Cat. Nos.	W (mm) min.	W (mm) max.	X (mm) min.	X (mm) max.
160	-	-	-	-	-
200	-	-	-	-	-
250	0367 43	93	213	78	198
300	0367 44	93	263	78	248
400	0367 45	93	363	78	348

Important

Legrand steel enclosures are supplied with a polyester finish. The finish will provide good protection against corrosion under normal conditions. If the enclosures are to be installed in wet or corrosive conditions we recommend that a regular programme of inspection and maintenance is carried out.

If service conditions are adverse we recommend that the enclosures are given extra surface protection at the time of installation. Legrand will be pleased to advise on appropriate extra protective means to be taken.

For general external use and in particularly severe corrosive conditions we recommend the use of our Marina range of glass reinforced polyester enclosures.

IP 55 does not necessarily mean that the steel enclosure can be used outdoors. Please consult the relevant standard.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Atlantic stainless steel
wall mounting enclosures
IP 66 - IK 10 - Nema 4x



Technical information and dimensions (p. 396-397)
Equipment (p. 401)

IP 66 according to IEC 60529, IK 10 according to IEC 62262, EN 50102
UL listed (Nema 4x)
CSA, Bureau Véritas, GÖST, LRS. LCIE N° 380 584 A B
Stainless steel 304 L : Standard offer
Stainless steel 316 L : On request

For use in :
• areas requiring a high level of hygiene :
- food processing plants
- dairies
- industrial/commercial kitchens
• corrosive conditions :
- chemical plants
- pharmaceutical industry
- petroleum industry
- paper industry

Rounded door, protective flange, reversible enclosure
Automatic positioning of equipment on to active corners with M8 fixings
Provision to fix optional runners and brackets for depth adjustment in enclosures from 600 x 400 x 250 mm

Stainless steel enclosures(1)

Pack	Cat. Nos. 304 L	Cat. Nos. 316 L(2)	External dimensions (mm) Height x Width x Depth	Weight (kg)
1	0352 00(3)	2002 49(3)	300 x 200 x 160	4
1	0352 01	2002 50	400 x 300 x 200	5·8
1	0352 02	2002 51	500 x 400 x 200	8·3
1	0352 03		600 x 400 x 200	10·8
1	0352 05	2002 52	600 x 400 x 250	12
1	0352 06	2002 53	700 x 500 x 250	15
1	0352 11	2002 54	800 x 600 x 300	22
1	0352 13	2002 55	1 000 x 800 x 300	38
1	0352 14		1 200 x 800 x 300	45
1	0352 15		1 400 x 800 x 400	66

Stainless steel enclosures with tempered glass window

Tinted tempered glass window

Pack	304 L	External dimension (mm) Height x Width x Depth	Window dimensions (mm) Height x Width	Weight (kg)
1	0352 21	400 x 300 x 200	300 x 128	7·5
1	0352 22	500 x 400 x 200	400 x 228	8·5
1	0352 23	600 x 400 x 200	500 x 228	9·6
1	0352 25	600 x 400 x 250	500 x 228	12
1	0352 26	700 x 500 x 250	600 x 328	15
1	0352 31	800 x 600 x 300	700 x 428	25
1	0352 33	1 000 x 800 x 300	850 x 628	38

Set of 4 wall mounting brackets

Pack	304 L	
1	0364 06	Supplied with screws Stainless steel (300 kg max. load)

(1) Cat. Nos. 0352 00/01 and 2002 49/50 are fitted with 1 lock, all others are fitted with 2 locks
(2) For other sizes, please consult us
(3) Supplied with plain plate

Atlantic stainless steel
wall mounting enclosures
IP 66 - IK 10 - Nema 4x

■ Technical information

Stainless steel enclosures provide a solution in harsh, aggressive environments such as chemical plants or offshore
Legrand offers two grades of stainless steel depending on the type of corrosion encountered

	304 L in %	316 L in %
Carbon	< 0·03	< 0·03
Chromium	18 to 19	16·5 to 18
Nickel	9 to 11	10 to 12
Molybdenum	–	2 to 2·25

Corrosion resistance

	304 L	316 L
To salt spray (SS)	1 000 hrs	2 000 hrs
To sulphur dioxide (SO_2)	1 000 hrs	1 000 hrs

Brushed satin finish

Polygrain 180
- Ra 0·25 to 0·35 µm
- Rt 2·5 to 4 µm

2 types of stainless steel

304 L : Provides good resistance to :
- nitric acid at concentrations of 52 % at all temperatures (or 98 % when cold)
- cold dilute organic acids
- alkaline solutions (unless hot or above 50 %)
- saline solutions other than chlorides, sulphides and sulphates
- fresh water and natural atmosphere with low carbon content
- food products (except mustard and white wine)

316 L : Provides good resistance to :
- all concentrations of phosphoric acids at temperatures up to 40 %
- sulphuric acids weaker than 10 %, or more than 80 % at 20 °C
- sulphuric mixes up to 70 °C
- sulphuric solutions and vapours, even bailing
- saline solutions, except chlorides
- all concentrations of alkaline solutions below 100 °C
- fresh water and natural atmosphere (particularly the marine environment)
- organic, food and pharmaceutical products

Physical properties

Specific weight - density : 8
Coefficient of expansion : 16 µ / m °C
Specific heat : 500 J / kg °C
Electrical resistivity : 0·75 µΩ mm²
Thermal conductivity : 15 W / m °C

The only way of guaranteeing excellent resistance to intercrystalline corrosion is the low carbon content (0·03 %) of 304 L and 316 L stainless steel

Different country names

		304 L	316 L
France	AFNOR NFEN	Z3 CN 18-10 X 2 CNI 19-11	Z3 CND 17-11-02 X 2 CNI Mo 17-12-2
Germany	DIN	X 2 CNI 19-11 (W.Nr 1-4 306)	X 2 CNI Mo 17-13-2 (W.Nr 1-4 404)
USA	AISI	304 L	316 L

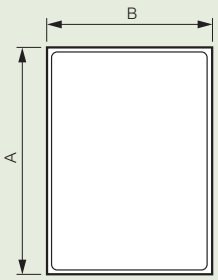
Note : Consideration must be given to the environment and the correct grade of stainless steel
If in any doubt, please consult Legrand for assistance

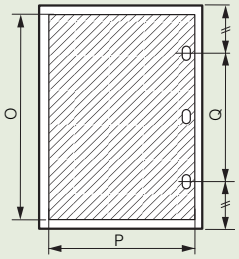
304 L grade enclosures are fitted with Mazak double bar locks, Epoxy coated
316 L grade enclosures are fitted with stainless steel double bar locks

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Atlantic stainless steel wall mounting enclosures
IP 66 - IK 10

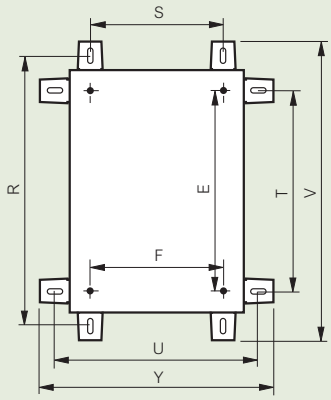
■ Dimensions



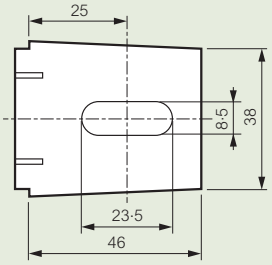


Cat. Nos.	Height	Width	Depth	Usable door surface area		Lock positions
	A (mm)	B (mm)	(mm)	O (mm)	P (mm)	Q (mm)
0352 00	301·6	199·6	161·5	250	150	–
0352 01	401·6	299·6	201·5	350	250	–
0352 02	501·6	399·6	201·5	450	350	250
0352 03	601·6	399·6	201·5	550	350	380
0352 05	601·6	399·6	251·5	550	350	380
0352 06	702·4	500	251·5	650	450	400
0352 11	802·4	600	301·5	750	550	400
0352 13	1 003·6	800·6	301·5	950	750	600
0352 14	1 203·6	800·6	301·5	1 150	750	700
0352 15	1 400·6	800·6	401·5	1 350	750	700

Fixing positions

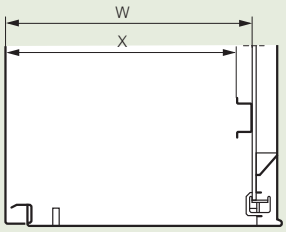


Cat. No. 0364 06



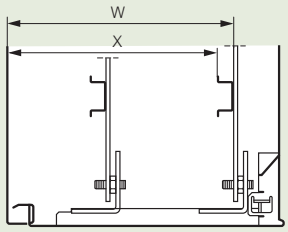
Cat. Nos.	Vertical wall brackets		Horizontal wall brackets		Dimensions			
	R (mm)	S (mm)	T (mm)	U (mm)	V (mm)	Y (mm)	E (mm)	F (mm)
0352 00	350	150	250	250	392	292	225	169
0352 01/21	450	250	350	350	492	392	325	269
0352 02/22	550	350	450	450	592	492	425	369
0352 03/23	650	350	550	450	692	492	525	369
0352 05/25	650	350	550	450	692	492	525	369
0352 06/26	750	450	650	550	792	592	625	469
0352 11/31	850	550	750	650	892	692	725	569
0352 13/33	1 050	750	950	850	1 092	892	925	769
0352 14	1 250	750	1 150	850	1 292	892	1 125	769
0352 15	1 450	750	1 350	850	1 492	892	1 325	769

Position of equipment
without runners



Enclosure Depth (mm)	Without runners	
	W (mm)	X (mm)
160	140	125
200	180	165
250	230	215
300	280	265
400	380	365

Adjustment of equipment
with runners (optional)(1)



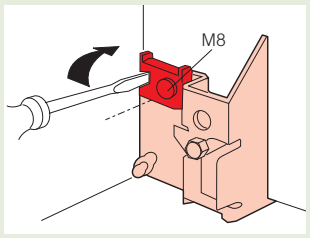
(1) Mild steel with anticorrosive treatment

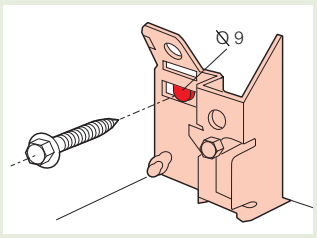
Enclosure Depth (mm)	With runners (see p. 393)				
	Runners Cat. Nos.	W (mm) Min.	W (mm) Max.	X (mm) Min.	X (mm) Max.
160	–	–	–	–	–
200	–	–	–	–	–
250	0367 43	93	213	78	198
300	0367 44	93	263	78	248
400	0367 45	93	363	78	348

For mounting plates, see p. 401

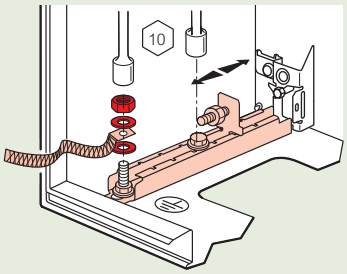
Active corner

Provides quick and easy fixing
Transfers equipment weight to wall fixings





Fixing method for runners and depth adjustment brackets (p. 393)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Marina wall mounting enclosures

polyester IP 66 - IK 10

NEW



0362 63 + plinth 0362 92
+ roof 0362 95



0362 55 + wall brackets 0364 09



0364 09



0362 44



Enclosure Cat. No. 0362 61 fitted with :
0364 09 brackets,
0363 63 internal door,
0368 26 key barrels,
0362 44 coupling kit and
0362 42 depth adjustment kit



0362 42

Technical information and dimensions (p. 399)

IP 66 according to IEC EN 60529. IK 10 according to IEC EN 62262 (EN 50102). UL/CSA approval applied for. Class II[1]
Glass fibre reinforced polyester (GRP) enclosures. Self extinguishing at 960 °C according to IEC EN 60695-2-11. Designed for corrosive environments
Reversible door, 180° opening (except Cat. No. 0362 50). Double bar lock(s), captive stainless steel hinge pins
Mounting plate/equipment can be fixed directly to the rear of the enclosure
Accepts partial plate from 500 x 400 x 200 mm and/or rails (except Cat. No. 0362 50)
Optional depth adjustment kit Cat. No. 0362 42 available for enclosures 400 mm high and above

Wall mounting grey RAL 7035

Pack	Cat. Nos.	Ext. dimensions (mm) H x W x D	Corresponding Atlantic (mm) H x W x D
1	0362 50	300 x 220 x 160	300 x 200 x 160
1	0362 51	400 x 300 x 206	400 x 300 x 200
1	0362 52	500 x 400 x 206	500 x 400 x 200
1	0362 55	610 x 400 x 257	600 x 400 x 250
1	0362 56	720 x 510 x 250	700 x 500 x 250
1	0362 61	820 x 610 x 300	800 x 600 x 300
1	0362 63	1 020 x 810 x 300	1 000 x 800 x 300
1	0362 64	1 220 x 810 x 300	1 200 x 800 x 300

Wall mounting grey RAL 7035 with tinted tempered glass window

Pack	Cat. Nos.	Ext. dimensions (mm) H x W x D	Window (mm) H x W
1	0362 71	400 x 300 x 206	235 x 145
1	0362 72	500 x 400 x 206	335 X 245
1	0362 75	610 x 400 x 257	463 x 245
1	0362 76	720 x 510 x 250	570 x 272
1	0362 81	820 x 610 x 300	672 x 372
1	0362 83	1 020 x 810 x 300	770 x 495
1	0362 84	1 220 x 810 x 300	970 x 495

Plinths grey RAL 7035

Height 170 mm
Front and rear access plates
Plinths can be stacked for extra height (2 max.)

Pack	Cat. Nos.	For enclosures W x D (mm)
1	0362 91	600 x 300
1	0362 92	800 x 300

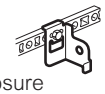
Roofs grey RAL 7035

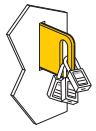
IK 10

Pack	Cat. Nos.	For enclosures W x D (mm)
1	0362 93	500 x 250
1	0362 94	600 x 300
1	0362 95	800 x 300

Accessories

Pack	Cat. Nos.	
		Set of 4 polyester wall mounting brackets, supplied complete with bolts
		For enclosures H (mm) / Max. load. (kg)
1	0364 08	300 / 100
1	0364 09	400 to 1 200 / 150
10	0362 40	Metal inserts for M8 rear fixing For enclosure height ≥ 400 mm (anchors into blind holes provided in enclosure rear)
1	0362 42	Depth adjust kit for enclosures ≥ 200 mm 4 fixings complete with screws
1	0362 44	Coupling kit (horizontal or vertical) for enclosure heights ≥ 500 mm Kit ensures maintained IP 66 rating. Multiple kits can be used to join multiple enclosures (For wall mounting, wall brackets Cat. No. 0364 09 must be ordered separately)
1	0365 13	Stainless steel padlock bracket for enclosure heights ≥ 400 mm 20 x 7 mm cutout accepts up to 3 6 mm padlocks







Anti-graffiti versions available to special order

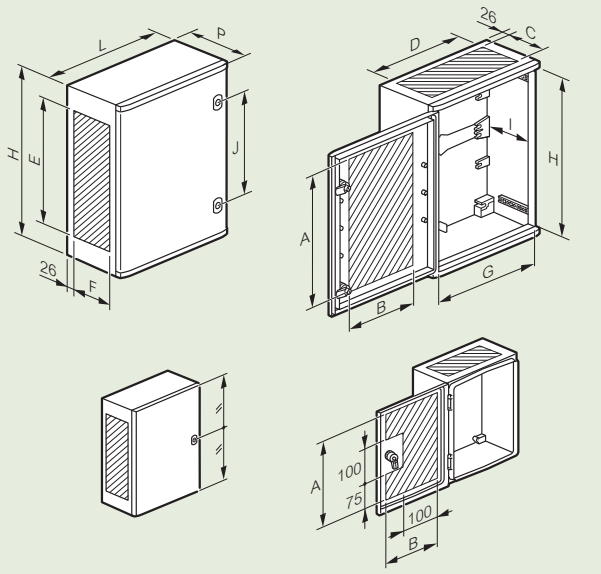
Contact us on 0845 605 4333

(1) Permits the final assembly to have Class II insulation according to EN 60439-1

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Marina wall mounting enclosures
polyester - IP 66 - IK 10

■ Dimensions and weights, usable areas

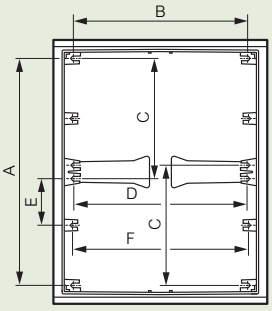


Cat. Nos.	Usable dimensions (mm)									
	A(1)	B(1)	C	D	E	F	G	H	I max.	J
0362 50	250	150	105	195	250	115	194	280	130	-
0362 51/71	300	180	130	250	260	150	260	350	178	200
0362 52/72	400	280	130	350	360	150	360	450	178	300
0362 33/55/75	500	280	180	350	460	180	360	560	225	400
0362 34/56/76	600	340	170	400	560	170	460	662	211	400
0362 35/61/81	700	440	220	500	660	230	560	762	261	500
0362 36/63/83	900	600	220	700	860	230	760	962	261	580
0362 37/64/84	1 100	600	220	700	1 060	230	960	1 162	261	700

(1) Except for enclosures with glass windows

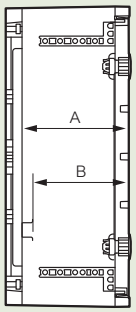
■ Equipment fixing

Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
0362 50	263	163	-	-	-	-
0362 51/71	325	225	125	225	102·5	228·5
0362 52/72	425	325	225	325	87·5	228·5
0362 33/55/75	525	325	325	325	95	328·5
0362 34/56/76	625	425	425	425	100	428·5
0362 35/61/81	725	525	525	525	100	528·5
0362 36/63/83	925	725	725	725	100	728·5
0362 37/64/84	1 125	725	925	725	100	728·5



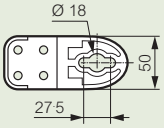
■ Adjustment of equipment (kit required)

Cat. Nos.	Full mounting plate (mm)		Chassis with rail ⊔ (mm)	
	A max	A min (with. Cat. No. 0362 42)	B max	B min (with Cat. No. 0362 42)
0362 50	135	-	-	-
0362 51/71	170	70	155	55
0362 52/72	170	70	155	55
0362 33/55/75	220	70	205	55
0362 34/56/76	220	70	205	55
0362 35/61/81	270	70	255	55
0362 36/63/83	270	70	255	55
0362 37/64/84	270	70	255	55

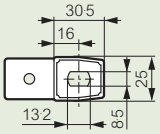


■ Wall mounting brackets

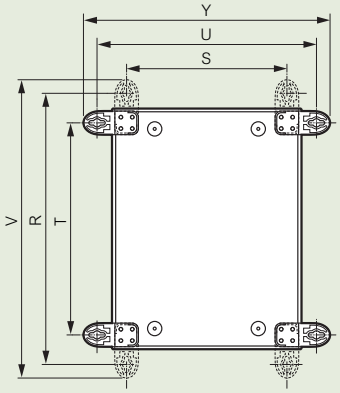
Cat. No. 0364 09

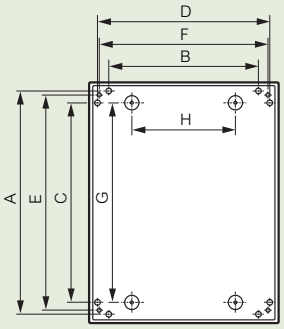


Cat. No. 0364 08



■ Fixing positions

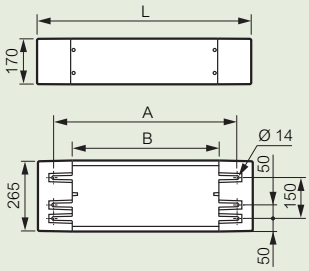


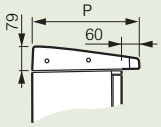


Cat. Nos.	Direct fixing outside mounting plate area (mm)		Direct fixing through rear of enclosure (mm)		With vertical brackets (mm)			With horizontal brackets (mm)		
	E	F	G	H	R	S	V	T	U	Y
0362 50(1)	-	-	220	150	330	190	359	270	250	279
0362 51/71	358	259	325	120	470	241	525	341	370	425
0362 52/72	458	359	425	220	570	341	625	441	470	525
0362 33/55/75	558	358	525	220	680	341	735	551	470	525
0362 34/56/76	664	468	600	200	789	441	844	641	579	634
0362 35/61/81	764	568	700	300	887	548	942	758	677	732
0362 36/63/83	964	768	900	500	1 087	748	1 142	958	877	932
0362 37/64/84	1 164	768	1 100	500	1 287	748	1 342	1 158	877	932

(1) Use Cat. No. 0364 08 wall brackets. Others use Cat. No. 0364 09 wall brackets

■ Plinths and roofs



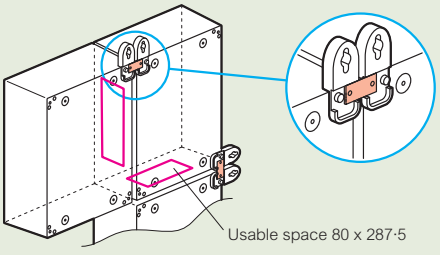


Plinth Cat. Nos.	Width (mm)	A (mm)	B (mm)	Weight (kg)
0362 91	590	480	344	4·8
0362 92	790	680	544	5·4

Roof Cat. Nos.	Width (mm)	D (mm)	Weight (kg)
0362 93	510	310	1
0362 94	612	360	1·3
0362 95	812	360	1·7

■ Coupling kit for wall mounting enclosures

Cat. No. 0362 44 (Brackets Cat. No. 0364 09 not included)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Marina free standing enclosures
polyester IP 66 - IK 10

NEW



0362 85



0362 86 + plinth 0362 96
+ roof 0362 97

Technical information and dimensions (opposite)

IP 66 according to IEC EN 60529. IK 10 according to IEC EN 62262 (EN 50102)
UL/CSA approval applied for. Class II(1)
Glass fibre reinforced polyester (GRP) enclosures
Self extinguishing at 960 °C according to IEC EN 60695-2-11
Designed for corrosive environments. Stainless steel hinges and hinge pins
Reversible door equipped with equipment mounting bosses. Supplied with two part gland plate and fixing kit for plain plate or sectioned uprights
Three point locking handle with European lock and 2433 A key(2)
Depth adjustment of equipment

Pack	Cat. Nos.	Enclosures grey RAL 7035	External dimensions (mm) H x W x D	Corresponding metal enclosure (mm) H x W x D
1	0362 85		1 460 x 800 x 463	1 400 x 800 x 400
1	0362 86		1 660 x 800 x 463	1 600 x 800 x 400
1	0362 87		1 860 x 800 x 463	1 800 x 800 x 400
1	0362 96	**Plinth grey RAL 7035**	Height 170 mm. Front and rear access plates Stackable for extra height (2 max) For enclosures W x D 800 x 400 mm	
1	0362 97	**Roof grey RAL 7035**	For enclosures W x D 800 x 400 mm	

Equipment

Plain plates

Galvanised steel. Premarked at 100 mm intervals
Permissible load : 200 kg/m²

Pack	Cat. Nos.	For enclosures H x W (mm)	Net weight (kg)
1	0349 59	1 400 x 800	27
1	0349 50	1 600 x 800	30·5
1	0344 18	1 800 x 800	34

Equipment

Lina 25 perforated plates

Zinc plated steel
Fit using sectioned uprights (except Cat. No. 0346 09)
Permissible load : 50 kg/m²
Supplied with fixing screws

Pack	Cat. Nos.	Plate H x W (mm)	Net weight (kg)
1	0346 23	800 x 800	3·5
1	0346 33	1 000 x 800	4·6
1	0346 09	1 400 x 800	6·8

Sectioned uprights

For mounting Lina 25 ⌞⌟ or ⌞⌟ crosspieces
Zinc plated steel

Pack	Cat. Nos.	For enclosures H (mm)	For enclosures W (mm)
1	0344 91	1 400	1 481
1	0344 90	1 600	1 681
1	0344 92	1 800	1 881

Lina 25 rails

Zinc plated steel
For enclosures 800 mm width. Rail length : 690 mm

Pack	Cat. Nos.	
10	0344 87	⌞⌟
10	0344 82	⌞⌟

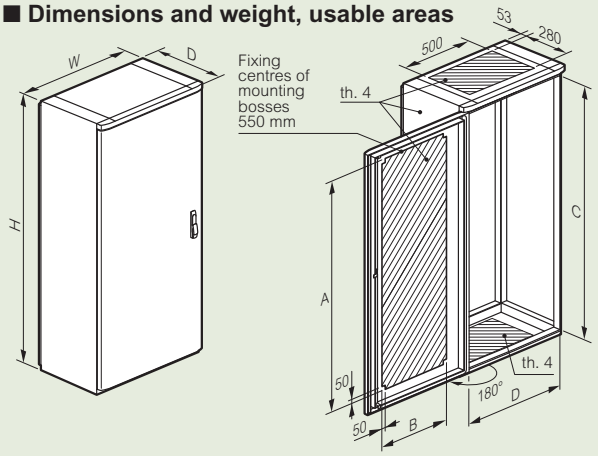
Accessories

Pack	Cat. Nos.	
1	0362 46	Lifting rings M14. Set of 4 for maximum load of 500kg/m² Supplied with blanking piece
1	0362 48	Coupling kit to horizontally join enclosures

(1) Permits the final assembly to have Class II insulation according to EN 60439-1
(2) Other key codes - please contact us on 0845 605 4333

Marina free standing enclosures
polyester - IP 66 - IK 10

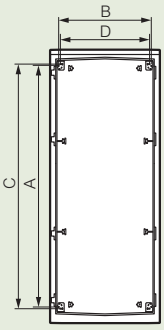
■ Dimensions and weight, usable areas



Cat. Nos.	Dimensions H x W x D (mm)	Weight (kg)	Usable area (mm) A	B	C	D
0362 85	1 460 x 800 x 463(1)	49	1 230	530	1 300	700
0362 86	1 660 x 800 x 463(1)	53	1 430	530	1 500	700
0362 87	1 860 x 800 x 463(1)	57	1 630	530	1 700	700

(1) 487 with handle

■ Equipment fixing

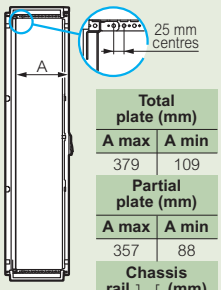


Cat. Nos.	Mounting plate A	B	Sectional(1) uprights C	D
0362 85	1 225	675	1 250	630
0362 86	1 425	675	1 450	630
0362 87	1 625	675	1 650	630

(1) For mounting partial plates

Sectional uprights are required to fix partial plates in the 1 600 and 1 800 mm enclosures – order separately

■ Equipment adjustment



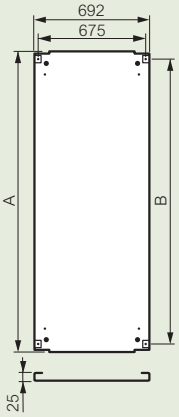
Total plate (mm) A max	A min
379	109

Partial plate (mm) A max	A min
357	88

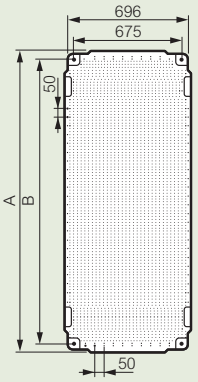
Chassis rail ⌞⌟ (mm) A max	A min
351	82

■ Mounting plates

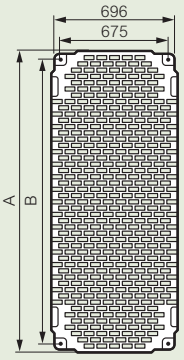
Plain plate



Lina 12·5 plate



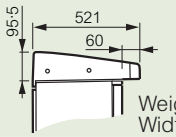
Lina 25 plate



	Plain A	B	Lina 12·5 and 25 A	B
800	-	-	721	675
1 000	-	-	921	875
1 400	1 292	1 225	1 296	1 250
1 600	1 492	1 425	-	-
1 800	1 692	1 625	-	-

■ Roof

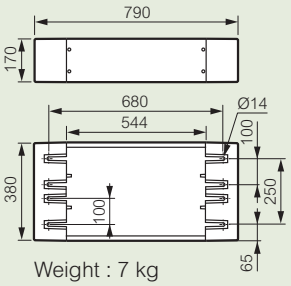
Cat. No. 0362 97



Weight : 2·5 kg
Width : 794 mm

■ Plinth

Cat. No. 0362 96



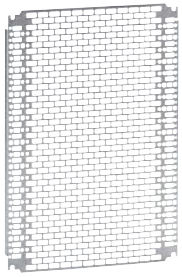
Weight : 7 kg

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

equipment for wall mounting enclosures


0360 55


0360 22 with rail


0360 18



0363 60 internal door
with Atlantic steel enclosure
0355 03 + kit 0363 69



0361 03 mounted in
enclosure 0354 94

Technical information and dimensions (p. 403)

Mounting plates

Plain and Lina 12·5 perforated

Pre-galvanised steel
Plain : 2 mm thick up to 400 x 400
3 mm thick from 400 x 600
Lina 12·5 : 2 mm thick
Ø 6·5 mm for rivets Cat. No. 0366 44
Ø 3·3 mm for equipment screws Cat. No. 0347 45 (see p. 402)

Pack	Cat. Nos. Plain	Cat. Nos. Lina 12·5	For enclosure dimensions Height x Width (mm)	Plain plate weight (kg)	Lina 12·5 weight (kg)
1	0360 49(1)	0360 01(1)	300 x 220	0·9	0·47
1	0360 69	0360 02	300 x 300	1	0·6
1	0360 52(2)	0360 04(3)	300 x 400	1·3	0·8
1	0360 52(2)	0360 04(3)	400 x 300	1·3	0·8
1	0360 70	0360 05	400 x 400	1·7	1·1
1	0360 56(2)	0360 22(3)	400 x 600	3·3	2·2
1	0360 55	0360 09	500 x 400	2·7	1·5
1	0360 71	0360 14	500 x 500	3·5	1·85
1	0360 56(2)	0360 22(3)	600 x 400	3·3	2·2
1	0360 57	0360 24	600 x 600	6·2	3·7
1	0360 59(2)	0360 33(3)	600 x 800	8·4	5·2
1	0360 54(2)	0360 40	600 x 1 000	10·6	6·8
1	0360 58	0360 31	700 x 500	6	3·7
1	0360 59(2)	0360 33(3)	800 x 600	8·4	5·2
1	0360 60	0360 34	800 x 800	11·4	7
1	0360 61(2)	0360 42(3)	800 x 1 000	14·4	9·2
1	0360 54(2)	0360 40	1 000 x 600	10·6	6·8
1	0360 61(2)	0360 42(3)	1 000 x 800	14·4	9·2
1	0360 63	0360 43	1 000 x 1 000	20·5	11·5
1	0360 65(2)	0360 47(3)	1 000 x 1 200	23	13·9
1	0360 64		1 200 x 800	18·5	
1	0360 65(2)	0360 47(3)	1 200 x 1 000	23	13·9
1	0360 66		1 200 x 1 200	34·4	
1	0360 67(3)		1 400 x 800	26·4	
1	0360 68		1 400 x 1 000	32·2	

Fixing accessories are supplied in each enclosure

Lina 25 perforated

Zinc plated sheet metal
1·5 mm thick up to 600 x 400
2 mm thick from 600 x 600
Accepts clip nut fixings (see p. 402)

Pack	Cat. Nos.	For enclosure dimensions Height x Width (mm)	Weight (kg)
1	0360 12	400 x 300	0·6
1	0360 15	500 x 400	0·9
1	0360 16	600 x 400	1·3
1	0360 17	600 x 600	2·1
1	0360 18	700 x 500	2
1	0360 19	800 x 600	3·1
1	0360 21	1 000 x 800	4·9
1	0360 25	1 000 x 1 000	6·8

Fixing accessories are supplied in each enclosure

(1) Marina only
(2) From mid 2007 the same plate is used for both vertical and horizontal enclosures
(3) For Atlantic steel and Atlantic stainless steel enclosures

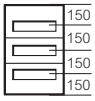
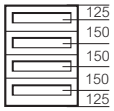
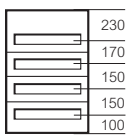
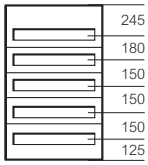
Internal doors grey RAL 7035 - IP xxB

Fit Marina and Atlantic stainless steel enclosures.
Also suitable for Atlantic steel enclosures when used with mounting kit Cat. No. 0363 69
For mounting of control and signalling units
Reversible, easy to fix, robust 4 mm thick GRP construction

Pack	Cat. Nos.	For enclosures (mm) H x W	Dim. (mm) H x W	Usable area (mm) H x W
1	0363 59	400 x 300	341 x 236	305 x 185
1	0363 60	500 x 400	441 x 336	405 x 250
1	0363 61	600 x 400	541 x 336	505 x 250
1	0363 62	700 x 500	642 x 436	500 x 340
1	0363 63	800 x 600	742 x 536	600 x 440
1	0363 64	1 000 x 800	942 x 736	800 x 640
1	0363 65	1 200 x 800	942 x 736	800 x 640
1	0363 69	Mounting kit for Atlantic steel enclosures		

Insulated modular chassis grey RAL 7035

Separate ABS front plate per row
Supplied in kit form with metal uprights and crosspieces
Grey RAL 7035 front plate
Symmetrical rails ⊔ depth 15 mm
Fixings supplied with enclosure

Pack	Cat. Nos.	For enclosure dimensions Height x Width x Depth (mm)	
1	0361 01	**400 x 300 x 200** 30 modules (3 rows of 10) Supplied with 1 blanking plate	
1	0361 02	**500 x 400 x 200** 48 modules (3 rows of 16) Supplied with 1 blanking plate	
1	0361 03	**600 x 400 x 250** 48 modules (3 rows of 16) Supplied with 1 blanking plate	
1	0361 05	**700 x 500 x 250** 84 modules (4 rows of 21) Supplied with 1 blanking plate	
1	0361 06	**800 x 600 x 300** 108 modules (4 rows of 27) Supplied with 2 blanking plates	
1	0361 09	**1 000 x 800 x 300** 190 modules (5 rows of 38) Supplied with 2 blanking plates	

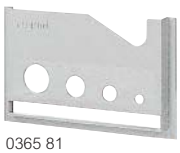
Blanking plate for windows

Pack	Cat. Nos.	
10	0361 00	For enclosures up to 800 mm wide Blanking plate to suit up to 670 x 45 mm window To be cut to required length

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Uprights + crosspieces (subject to size)
Pocket Cat. No. 0365 80



0365 81



0367 80



0363 81



0364 40



0366 44



0347 45



0347 50

Lina 25 sectioned uprights

Set of 2 sectioned uprights

Pack	Cat. Nos.	For enclosures height (mm)	Length of uprights (mm)	Thickness (mm)	Profile
5	0361 50[1]	300	237	2·5	
5	0361 51	400	337	2·5	
5	0361 52	500	437	2·5	
5	0361 53	600	537	2·5	L
5	0361 54	700	637	2·5	
5	0361 55	800	737	2·5	
5	0361 56	1 000	937	2·5	
1	0361 58	1 200	1 137	2·5	
1	0361 59[1]	1 400	1 337	2·5	L

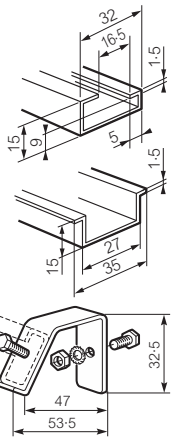
Crosspieces

Crosspieces ready to assemble (excluding fixings)

Pack	⌙	For enclosures width (mm)	Crosspiece length (mm)
10	0367 80	300	243
10	0367 81	400	343
10	0367 82	500	443
10	0367 83	600	543
10	0367 84	800	743
10	0367 85	1 000	943
10	0367 86	1 200	1 143

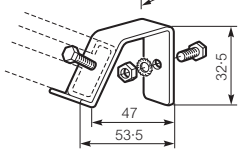
Rail 2 m length

10	0374 02	⌙
10	0374 07	⌙



Mounting bracket for rail fixing at 45°

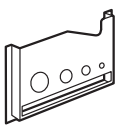
Pack	Cat. Nos.	
10	0394 49	2 brackets with four 6 mm dia. bolts, nuts and washers



Self-adhesive document pockets

RAL 7035

Pack	Cat. Nos.	External dimensions (mm) Width x Height	Internal dimensions (mm) Width x Height x Depth
20	0365 80	340 x 235	310 x 200 x 18
20	0365 81	260 x 165	230 x 130 x 18

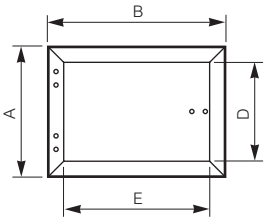


(1) For Atlantic steel and Atlantic stainless steel enclosures

Hinged instrument windows

IP 54 - IK 05
Anodised aluminium frame
4 mm thick acrylic window
Neoprene gasket
Lock with key No. 455
Supplied complete with fitting template
Prevents unauthorised access to door mounting control devices

Pack	Cat. Nos.	External dimensions (mm) Height x Width x Depth	Window dimensions (mm) Height x Width	Usable depth (mm)
1	0363 81	297 x 397 x 50	250 x 350	45
1	0363 82	397 x 497 x 50	350 x 450	45



Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
0363 81	297	397	250	350
0363 82	397	497	350	450

Fixings

Clip nuts for perforated plates

Supplied without screws

Pack	Cat. Nos.	
100	0364 40	For M4 screw
100	0364 42	For M6 screw

On to rails EN 60715 ⌙, ⌙

100	0364 78	For M4 mm screw

On to rail EN 60715 ⌙

10	0044 16	Claw width 10 mm Threaded hole For M4 screw
10	0044 17	Claw width 17·5 mm Smooth hole Ø 3·8 mm Supplied with fixing screw Ø 3·5 mm Length 13 mm
40	0364 69	Fixomega for M4 screw

Set of brackets to fix ⌙ rail to door uprights

5	0367 35	Supplied with M6 screws Provides a fixing for 15 mm deep ⌙ rail when used on the door uprights

For Lina 12·5 perforated plates

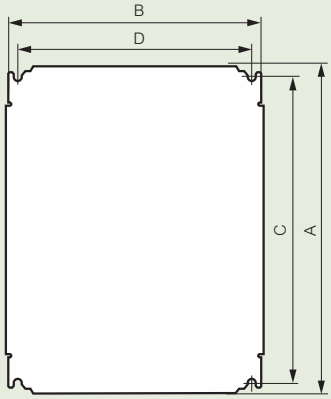
500	0366 44	Insulated plastic rivets Ø 6 mm for 6 mm holes
100	0347 45	Self piercing-tapping hex head screws 4·8 x 16 mm for Ø 3·3 mm holes
200	0347 50	Plastic insulating cap for above



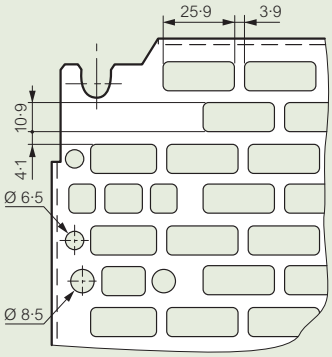
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Mounting plates

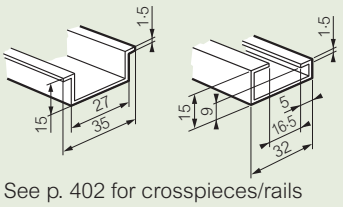
Pre-galvanised plain and Lina 12·5 plates



Lina 25 perforations



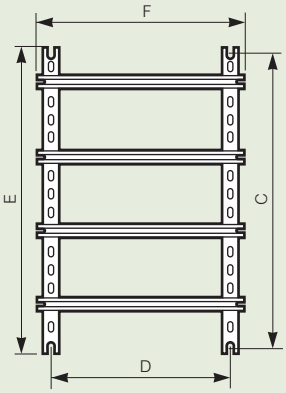
■ Crosspieces/rails



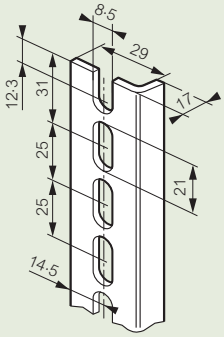
See p. 402 for crosspieces/rails

■ Chassis assembled

Uprights and crosspieces



■ Sectioned uprights



■ Clip nuts



See p. 402 for clip nuts

Enclosure dimensions Height x Width (mm)	Mounting plate dimensions		Usable space for equipment (dm²)	Plate/Chassis fixing points		Height of upright	Length of crosspiece
	A (mm)	B (mm)		C (mm)	D (mm)	E (mm)	F (mm)
300 x 200	256	156	4·2	225	125	–	–
300 x 220	275	192	5·3	263	163	–	–
300 x 300	256	256	6·2	225	225	237	243
300 x 400	256	356	8·2	225	325	237	343
400 x 300	356	256	8·2	325	225	337	243
400 x 400	356	356	11·7	325	325	337	343
400 x 600	356	556	18·7	325	525	337	543
500 x 400	456	356	15·2	425	325	437	343
500 x 500	456	456	19·2	425	425	437	443
600 x 400	556	356	18·7	525	325	537	343
600 x 600	556	556	29·7	525	525	537	543
600 x 800	556	756	40·7	525	725	–	–
600 x 1 000	556	956	51·7	525	925	–	–
700 x 500	656	456	28·7	625	425	637	443
800 x 600	756	556	40·7	725	525	737	543
800 x 800	756	756	55·7	725	725	737	743
800 x 1 000	756	956	71·7	725	925	737	943
1 000 x 600	956	556	51·7	925	525	937	543
1 000 x 800	956	756	70·7	925	725	937	743
1 000 x 1 000	956	956	89·7	925	925	937	943
1 000 x 1 200	956	1 156	108·7	925	1 125	–	–
1 200 x 800	1 156	756	85·7	1 125	725	1 137	743
1 200 x 1 000	1 156	956	108·7	1 125	925	1 137	943
1 200 x 1 200	1 156	1 156	131·7	1 125	1 125	1 137	1 143
1 400 x 800	1 356	756	100·7	1 325	725	1 337	743
1 400 x 1 000	1 356	956	127·7	1 325	925	1 337	943

■ Insulated modular chassis

Fixes to corner fixings inside enclosure
Chassis can fit steel or polyester enclosures



0361 03 fitted into 0354 94

Space between door and chassis front

- Atlantic steel
- Atlantic stainless steel
- Marina

} Depth 200 : 70 mm
Depth 250 : 80 mm
Depth 300 : 90 mm

The front sections can only be removed using a tool (flat blade screwdriver)

Glow wire tested : 5s at 750 °C

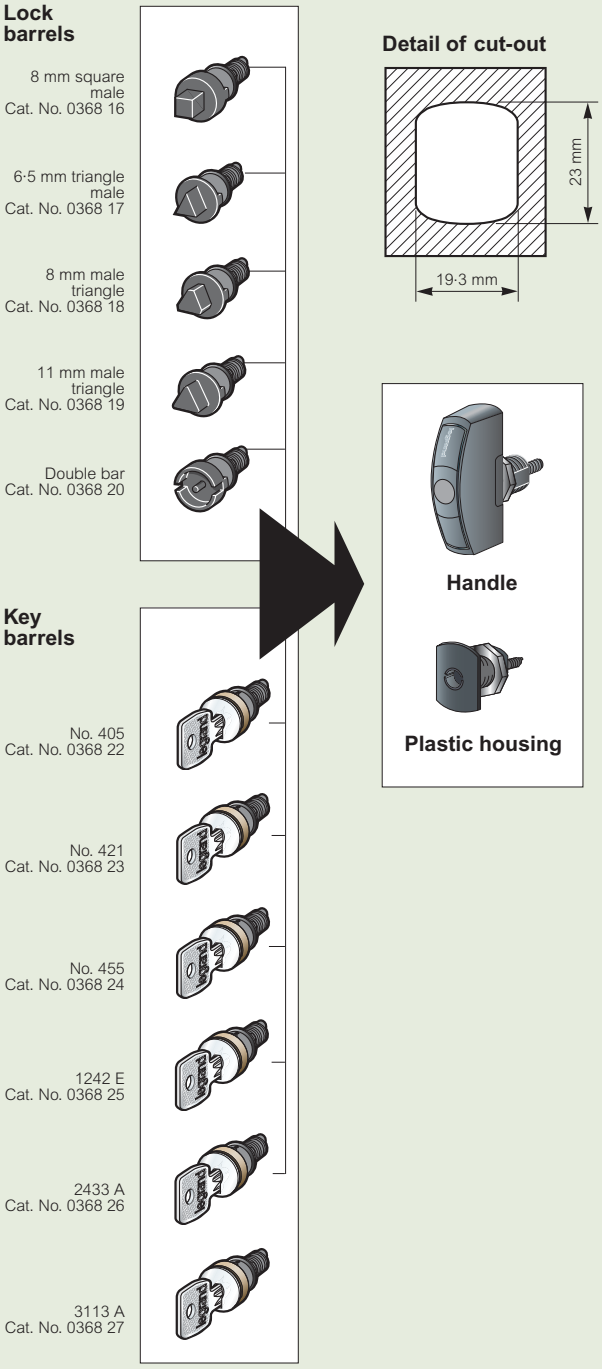
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

locking accessories
universal locking system

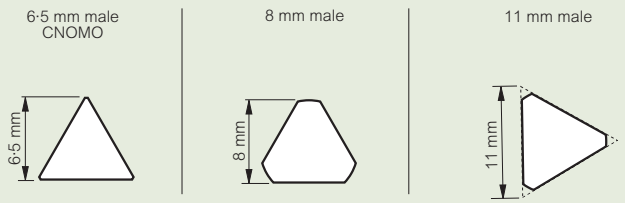
Pack	Cat. Nos.	
		Lock housings and cams for rebate or cylinder locks
		Interchangeable for Atlantic and Marina enclosures
10	0368 04	**Plastic housing** (excludes barrel and cam)
10	0368 05	**Handle** With blank (excludes cam)
10	0368 06	**Handle** Fitted with locking barrel 2433 A (excludes cam)
		Locking cams
10	0368 43	For Atlantic 1 door enclosures
10	0368 44	For Atlantic 2 door enclosures
10	0365 30	For Marina enclosures
		Note : Cam nuts are supplied with the handle or housing
		Metal lock barrels
10	0368 16	8 mm male square
10	0368 17	6·5 mm male triangle
10	0368 18	8 mm male triangle
10	0368 19	11 mm male triangle
10	0368 20	Double bar
		Key barrels Supplied with set of 2 keys For key No :
10	0368 22	405
10	0368 23	421
10	0368 24	455
10	0368 25	1242 E
10	0368 26	2433 A
10	0368 27	3113 A
10	0365 45	Set of two 2433 A keys
		Keys for metal barrels
10	0365 39	For 6·5 mm male triangle lock
10	0365 40	For 8 mm male triangle lock
10	0365 41	For 11 mm male triangle lock
10	0365 42	Double bar
		Other accessories
		Padlock adaptor
1	0365 11	Metal painted black-grey RAL 7021 Fits over door handles to provide security Accepts up to 3 padlocks
1	0365 13	Stainless steel padlock bracket for Marina enclosure heights ≥ 400 mm 20 x 7 mm cutout accepts up to 3 6 mm padlocks

■ Universal locking system(1)

The locks can be assembled and fitted to all Atlantic and Marina enclosures



Dimensions of special triangle locks



(1) The metal locks (special barrels and key barrels) and lock barrels are all compatible with each other

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

enclosure air conditioning
ventilation, heating, accessories


0348 17


0348 04


0348 05


0348 35


0348 52


0348 89


0365 79


0348 02



0348 47

Technical information and dimensions (p. 406-407)

Pack	Cat. Nos.	Ventilation fan kit with metal grill
		IP 32 - IK 10 230 V - 50/60 Hz
1	0348 17	30 m³/h with filter - 160 m³/h without filter installed (free flowing) Pack comprising a pair of metal RAL 7035 louvres and a pair of anti-insect grills, plus internal finger protection

		Ventilation fan kits with plastic grill
		IP 54 - IK 08 230 V - 50/60 Hz RAL 7035 plastic housing Supplied with finger protection guards External projection 7-10 mm Accepts mounting spacer Cat. No. 0348 88/89 Used to reduce internal projection and improve wiring space Fitted externally on to the enclosure with rapid fix Screws, 1 mm to 4 mm panel thickness An extra louvre can be fitted to improve air flow and extraction
		40/160 m³/h
1	0348 50	40 m³ with filter 160 m³ with extra grill/filter Cat. No. 0348 34 160 m³ without filter installed (free flowing) Pack comprising a pair of RAL 7035 plastic grills 150 x 150 mm and washable electrostatic filter EU3, G3
		100/160 m³/h
1	0348 51	100 m³ with filter 160 m³ with extra grill/filter Cat. No. 0348 35 160 m³ without filter installed (free flowing) Pack comprising a pair of RAL 7035 plastic grills 250 x 250 mm and washable filter EU3, G3
		170/240 m³/h
1	0348 52	170 m³ with filter 240 m³ with extra grill/filter Cat. No. 0348 35 240 m³ without filter installed (free flowing) Pack comprising a pair of RAL 7035 plastic grills 250 x 250 mm and washable filter EU3, G3

		Spacers for vent kits
		IP 54 maintained RAL 7035 Used to reduce the internal projection and increase the internal usable volume
1	0348 88	150 x 150 mm
1	0348 89	250 x 250 mm

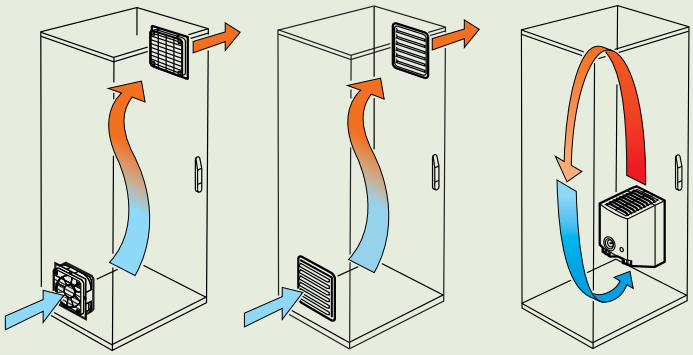
Technical information and dimensions (p. 406-407)

Pack	Cat. Nos.	Natural ventilation
		Ventilation glands
		IP 44 - IK 08 for outdoor use Grey polyamide
2	0365 78	Ø 15 mm aperture needed
2	0365 79	Ø 30·5 mm aperture needed
		Ventilation louvres - metal
		IP 32 - IK 10 RAL 7035 Pack comprising a pair of metal louvres and a pair of anti-insect grills
1	0348 04	138 x 138 mm
1	0348 05	248 x 248 mm
		Ventilation louvres - plastic
		RAL 7035
		Supplied with 10 mm thick filter EU 3, G3
1	0348 34	IP 44 - 150 x 150 mm
		Supplied with 20 mm thick filter EU 3, G3
1	0348 35	IP 54 - 250 x 250 mm
1	0348 36	IP 54 - 325 x 325 mm

		Heating
		Resistance heaters 110 V / 240 V ∿ ⎓
		IP 20 Prevent condensation forming inside the enclosure "PTC" auto-regulated and surface temperature limited : t = 70 °C Heat dissipator in black aluminium oxide Fix on rail ⎍
		Power | Current rating
1	0348 00	20 W | 0·8 A
1	0348 01	60 W | 1·5 A
1	0348 02	120 W | 3·2 A
		Thermostat
		12 to 250 V∿ (requires neutral) Contact rating : 10 A max. (5 A closing) Fix on rail ⎍
1	0348 47	Adjustable from 5 to 60 °C with NO/NC contact

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Operating principle

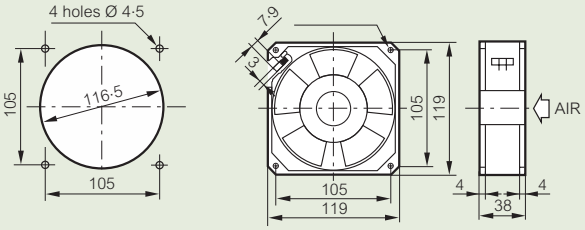


Ventilators, louvres and spacers | Natural ventilation | Heating

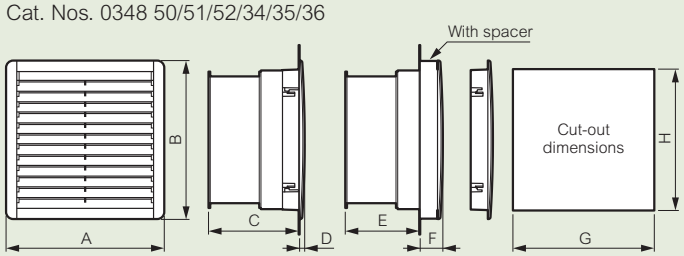
■ Ventilation fan kits, louvres and spacers

Dimensions and cut-outs

Cat. No. 0348 17



Cat. Nos. 0348 50/51/52/34/35/36



Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
0348 50	150	150	70	7	43	34	125	125
0348 51	250	250	105	8	78	35	223	223
0348 52	250	250	123	8	96	35	223	223
0348 34	150	150	-	7		34	125	125
0348 35	250	250	-	8		35	223	223
0348 36	325	325	-	10		37	291	291

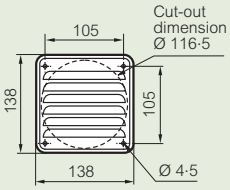
Technical characteristics

Cat. Nos.	0365 71/0348 17	0348 50	0348 51	0348 52
Voltage (V)/phase	220-240/1	230/1	230/1	220-240/1
Frequency (Hz)	50/60	50/60	50/60	50/60
No load flow ventilation only (m³/h)	160	160	160	240
On load flow - with an output louvre (supplied)	30	40	100	170
Static pressure (mm of water)	100	66	51	111
Power down (W)	22	20	20	29
Current drown (A)	0·14	0·125	0·125	0·426
Operating temperature	–10 °C/+50 °C			
IP/IK	32/10	54/08	54/08	54/08
Sound level (dB)	49	43	43	50
Weight (kg)	0·72	0·8	1·4	1·7

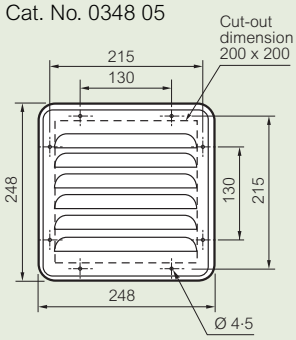
■ Natural ventilation

Dimensions and cut-outs

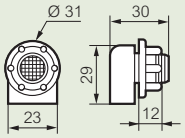
Cat. No. 0348 04



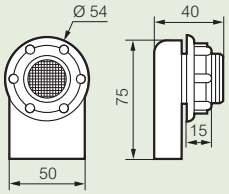
Cat. No. 0348 05



Cat. No. 0365 78



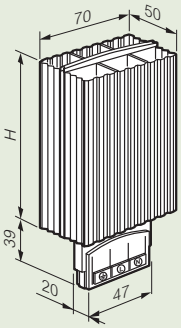
Cat. No. 0365 79



■ Heating

Dimensions

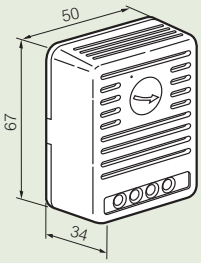
Cat. Nos. 0348 00/01/02



Cat. Nos.	Rating	H (mm)
0348 00	20 W	80
0348 01	60 W	140
0348 02	120 W	220

Vertical installation at the bottom of the enclosure
Air circulation :
- ensure clearance >50 mm all round the device
- do not cover

Cat. No. 0348 47



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Technical information

Three factors should be considered :

- The surface area of the enclosure : Sc (m²)
- The maximum permissible temperature : Δt (°C)
- The power dissipation of the equipment : P(W)

Operating procedure :

1. Determine the surface area (Sc) of the enclosure using the charts below. The values indicated take into account the shape of the enclosure

Atlantic enclosures

Dimensions (mm) Height x Width x Depth	Sc (m²)
300 x 200 x 160	0·15
300 x 300 x 200	0·28
300 x 400 x 200	0·28
400 x 300 x 200	0·25
400 x 400 x 200	0·32
500 x 400 x 200	0·35
600 x 400 x 200	0·36
400 x 600 x 250	0·46
500 x 400 x 250	0·41
500 x 500 x 250	0·47
600 x 400 x 250	0·46
600 x 600 x 250	0·61
700 x 500 x 250	0·56
800 x 600 x 250	0·71
800 x 800 x 250	0·87
800 x 1000 x 250	0·97
1000 x 600 x 250	0·77
1000 x 800 x 250	0·96

Dimensions (mm) Height x Width x Depth	Sc (m²)
600 x 600 x 300	0·76
700 x 500 x 300	0·79
800 x 600 x 300	0·78
800 x 800 x 300	0·95
800 x 1000 x 300	1·08
1000 x 600 x 300	0·86
1000 x 800 x 300	1·05
1000 x 1000 x 300	1·16
1200 x 800 x 300	1·15
1200 x 1000 x 300	1·36
1200 x 1200 x 300	1·55
1400 x 1000 x 300	1·41
600 x 600 x 400	0·79
800 x 600 x 400	1·07
1000 x 800 x 400	1·55
1200 x 800 x 400	1·33
1200 x 1200 x 400	1·75
1400 x 800 x 400	1·72

Marina enclosures

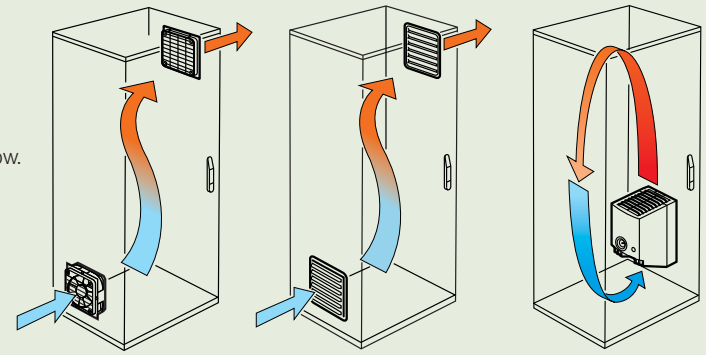
Dimensions (mm) Height x Width x Depth	Sc (m²)
300 x 220 x 160	0·14
405 x 305 x 200	0·31
505 x 405 x 200	0·36
605 x 405 x 250	0·41
728 x 518 x 250	0·52
828 x 618 x 300	0·72
1028 x 818 x 300	0·96
1508 x 908 x 400	1·50
1800 x 800 x 400	1·10

2. Calculation : Once you know the Sc of your enclosure and the admissible temperature Δt (°C), determine the maximum power dissipation of the unequipped enclosure. If the result is less than the heat dissipation required then a cooling system must be installed

Note :
Heat exchangers and air conditioners are available to special order, details are available on request

3. Consult the relevant curve to check that heat dissipation is at least equal to the heat dissipation value corresponding to maximum permissible heat-up

■ Operating principle



Ventilators, louvres and spacers

Natural ventilation

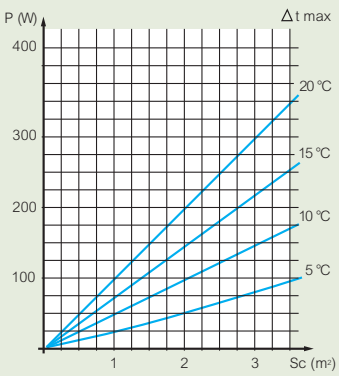
Heating

■ Ventilation

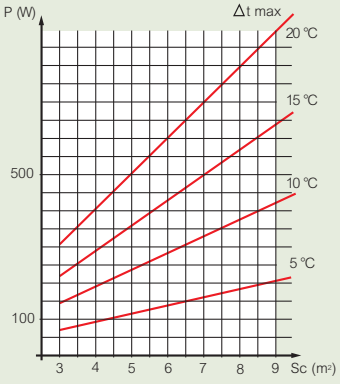
The curves below enable the user to determine whether the enclosure must have a ventilation system, based on 3 parameters :
- Δt °C between t° ambient and t° maximum to be obtained at the hottest point
- power dissipated in watts [P(W)]
- effective surface area of enclosure Sc

Natural dissipation for an unequipped enclosure

Sc up to 3 m²



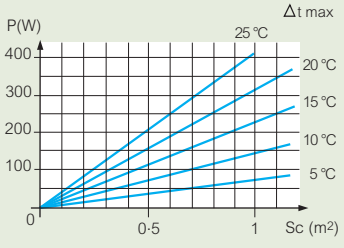
Sc above 3 m²



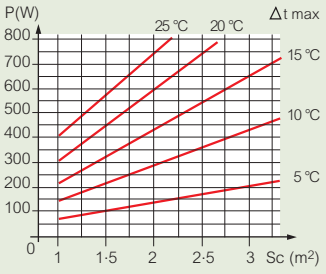
■ Heating

Determine the overall power absorbed by heating elements to be installed according to the effective surface area - Sc - of the enclosure and the desired increase Δt

Sc up to 1 m²



Sc above 1 m²



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The box of tricks

Moulded from a selection of environmentally friendly materials, Plexo boxes provide a variety of solutions to meet your protection needs... IP 55 or IP 66, IK 07 or IK 08. Available with transparent or plain covers and with hinges or cover fixings, most Plexo boxes accept IP 2X terminals, DIN rail and mounting plates.



Fixings outside the envelope guarantee the IP rating and enable easy mounting of equipped boxes

DESIGNED WITH FLEXIBILITY IN MIND

Can be equipped with a plain plate or rail for fixing components and equipment



Optional wall mounting brackets enable horizontal or vertical mounting







Optional UV resistant hinges can be easily fitted to the standard box



IP 2X terminals can be accommodated on boxes from 130 x 130 mm using the unique side mounting provided

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

industrial boxes

DIMENSIONS	INDUSTRIAL BOXES						ACCESSORIES	
Internal dimensions (mm) Height x Width x Depth	Cable entries	IP 55 plain clip-on covers	IP 55 covers		IP 55 plain hinged covers - 2 x 1/4 turn fixings	IP 66 plain covers	Mounting plates	Hinge kit accessories
								
			Plain	Transparent				
Ø 60 x 40	membrane	0921 00						
Ø 70 x 45	membrane	0921 01						
65 x 65 x 40	membrane	0921 04						
80 x 80 x 45	none	0921 28						
80 x 80 x 45	membrane	0921 26						
105 x 105 x 55	membrane		0921 36					
105 x 105 x 55	none		0921 38					
130 x 75 x 74	none		0359 00	0359 01		0350 07		
130 x 130 x 74	membrane		0920 32				0358 10	
130 x 130 x 74	none		0359 30	0359 31		0350 13	0358 10	0358 00
155 x 110 x 74	membrane		0920 42				0358 11	
155 x 110 x 74	none		0359 40	0359 41		0350 17	0358 11	0358 00
180 x 140 x 86	none		0359 50	0359 51		0350 22	0358 12	0358 00
220 x 170 x 86	none		0359 60	0359 61		0350 28	0358 13	0358 00
220 x 170 x 140	none				0921 22(2)		0350 90	
265 x 174 x 154	none				0350 43(2)		0350 92	
270 x 170 x 86	none		0359 70	0359 71		0350 33	0358 14	0358 00
310 x 240 x 124	none		0359 80	0359 81		0350 44	0358 15	0358 01
310 x 240 x 160	none		0922 84(1)		0922 84(2) 0350 54(2)			
359 x 265 x 154	none				0350 58(2)		0350 94	
360 x 270 x 124	none		0359 90	0359 91		0350 47	0358 16	0358 01

(1) Old model : four 1/4 turn cover fixings
(2) Old model : two 1/4 turn cover fixings

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

industrial boxes
PS range


0921 01


0921 26


0921 36

IP 55 - IK 07
Grey RAL 7035
Conform to EN 60695-2-1
Material : polystyrene box and polypropylene cover - halogen free
Temperature rating : –25 °C to +40 °C
Self-extinguishing 650 °C
Membrane glands
Complete dimensions available on request
Opaque cover

Pack	Cat. Nos.	Weatherproof round boxes
		With fixing slots for easy alignment Use 5 mm Ø screws Clip-on cover
		Nominal internal dimensions : Ø x Depth
		Ø 60 mm x 40 mm
5/100	0921 00	4 glands
		Ø 70 mm x 45 mm
5/100	0921 01	4 glands

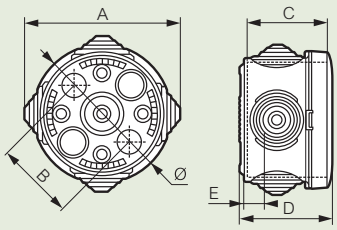
Pack	Cat. Nos.	Weatherproof square boxes
		With fixing slots for easy alignment Use 5 mm Ø screws Clip-on cover
		Nominal internal dimensions : Height x Width x Depth
		65 x 65 x 40 mm
5/100	0921 04	7 glands
		80 x 80 x 45 mm
5/100	0921 26	7 glands

Pack	Cat. Nos.	Weatherproof square box class II
		Mounting by : • either internal fixing points - use 5 mm Ø screws • or at three corners outside the wiring area Use 4 mm Ø screws Provision for anti-tamper seal Cover with 4 x 1/4 turn fixings, indicated I-O, can be retained open during installation
		Nominal internal dimensions : Height x Width x Depth
		105 x 105 x 55 mm
5/50	0921 36	7 glands

industrial boxes
PS range

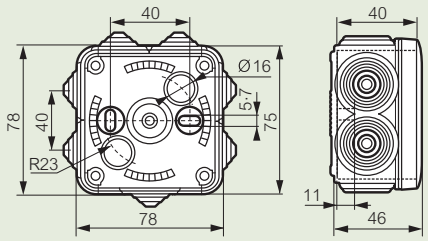
■ Boxes IP 55 - IK 07

Cat. Nos. 0921 00 and 0921 01

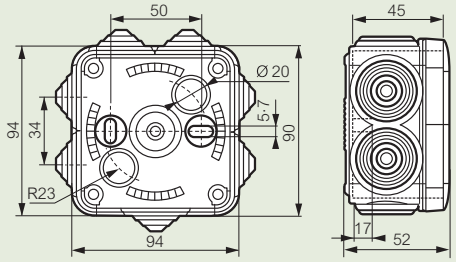


Cat. Nos.	Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0921 00	60	79	40	44·5	40	11
0921 01	70	86	50	49·5	45	11

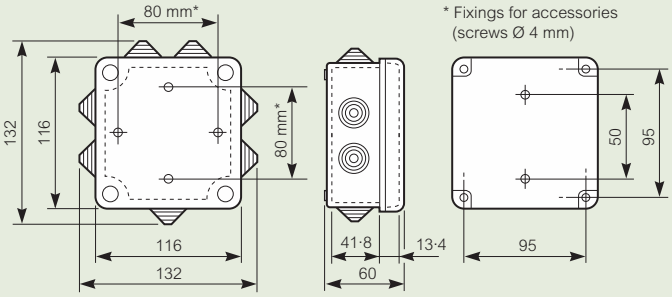
Cat. No. 0921 04



Cat. No. 0921 26



Cat. No. 0921 36



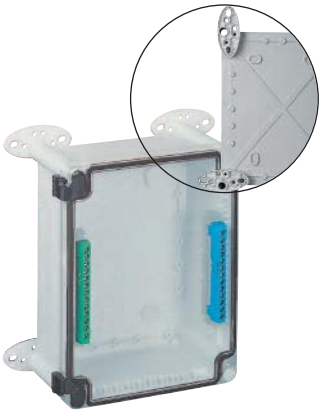
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

industrial boxes
PS and PP range


0921 28


0359 40

0359 41


0359 61 with IP 2x terminals and 0358 02 wall brackets, horizontal or vertical mounting

Dimensions (p. 412)

Grey RAL 7035
Conform to EN 60695-2-1
Temperature rating : – 25 °C to + 40 °C
Undrilled with smooth sides
Complete dimensions available on request

Weatherproof boxes IP 55 - IK 07 class II

Self-extinguishing 650 °C
Material : polystyrene box and polypropylene cover - halogen free
With fixing slots for easy alignment
- use 5 mm Ø screws
Clip-on opaque cover

Pack	Cat. Nos.	Nominal internal dimensions : Height x Width x Depth (mm)
5/50	0921 28	80 x 80 x 45

As above but mounting by :
• either internal fixing points
- use 5 mm Ø screws
• or at three corners outside the wiring area
- use 4 mm Ø screws
Provision for anti-tamper seal
Cover with 4 x 1/4 turn fixings, indicated I-O, can be retained open during installation

Pack	Cat. Nos.	Nominal internal dimensions : Height x Width x Depth (mm)
5/50	0921 38	105 x 105 x 55

Weatherproof boxes IP 55 - IK 07 class II ⧈ 500 V

Self-extinguishing 750 °C
Material : polypropylene box and opaque or clear polycarbonate cover - halogen free
Detachable clip-on cover retainer except 310 x 240 and 360 x 270 boxes
Side mounts for IP 2x terminals provided except for 130 x 75 x 74 mm boxes
Sealable cover with 1/4 turn fixings
With fixing slots for easy alignment
Opaque or transparent cover

Pack	Cover Opaque	Cover Transparent	Nominal internal dimensions : Height x Width x Depth (mm)
1/10	0359 00	0359 01	130 x 75 x 74
1/10	0359 30[1]	0359 31[1]	130 x 130 x 74
1/20	0920 32		130 x 130 x 74 10 membrane gland fitted for 4-25 mm cable or conduit
1/10	0359 40[1]	0359 41[1]	155 x 110 x 74
1/20	0920 42		155 x 110 x 74 10 membrane gland fitted for 4-25 mm cable or conduit
1/5	0359 50[1]	0359 51[1]	180 x 140 x 86
1/5	0359 60[1]	0359 61[1]	220 x 170 x 86
1/2	0359 70[2]	0359 71[2]	270 x 170 x 86
1/2	0359 80[2]	0359 81[2]	310 x 240 x 124
1	0359 90[2]	0359 91[2]	360 x 270 x 124

(1) Accepts Cat. No. 0358 00 hinges
(2) Accepts Cat. No. 0358 01 hinges

industrial boxes
PC range


0350 13


0350 28


0358 00


0358 02


0343 98 (with 1 x 0343 25)

Dimensions (p. 412)

Grey TO 29
Temperature rating : – 25 °C to + 80 °C
Undrilled with smooth sides
Complete dimensions available on request

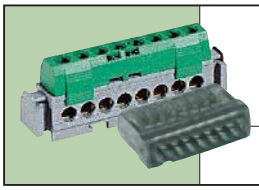
Weatherproof boxes IP 66 - IK 08 class II ⧈ 500 V

Conform to EN 60695-2-1
Material : polycarbonate - halogen free
Self-extinguishing 750 °C
Detachable clip-on cover retainer except for 310 x 240 and 360 x 270 mm boxes
Side mounts for IP 2X terminals provided except for 130 x 75 x 74 mm boxes
Sealable opaque cover with 1/4 turn fixings

Pack	Cat. Nos.	Nominal internal dimensions : Height x Width x Depth (mm)
1/10	0350 07	130 x 75 x 74
1/10	0350 13[1]	130 x 130 x 74
1/10	0350 17[1]	155 x 110 x 74
1/5	0350 22[1]	180 x 140 x 86
1/5	0350 28[1]	220 x 170 x 86
1/2	0350 33[2]	270 x 170 x 86
1/2	0350 44[2]	310 x 240 x 124
1	0350 47[2]	360 x 270 x 124

Accessories

Pack	Cat. Nos.	
		Metal mounting plates[1]
		Galvanised steel - 1·5 mm thick
		For box size :
5	0358 10	130 x 130 mm
5	0358 11	155 x 110 mm
5	0358 12	180 x 140 mm
5	0358 13	220 x 170 mm
5	0358 14	270 x 170 mm
5	0358 15	310 x 240 mm
5	0358 16	360 x 270 mm
		Set of 2 hinges[1]
		UV protected polyamide in dark grey (RAL 7016)
1	0358 00	For box 130 x 130 mm to 270 x 170 mm
1	0358 01	For box 310 x 240 mm to 360 x 270 mm
1	0358 02	**Set of 4 wall lugs[1]**
		Support for Nylbloc auto screwless terminals[1]
10	0343 98	For the arrangement and support of 3 terminals Fixes directly to the sides of boxes ≥130 x 130 mm or base of boxes ≥105 x 105 mm Provision for labelling with marker pen



For Nylbloc auto and IP 2x terminals

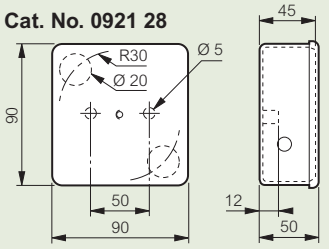
see p. 110 and 440

(1) Not suitable for PVC range

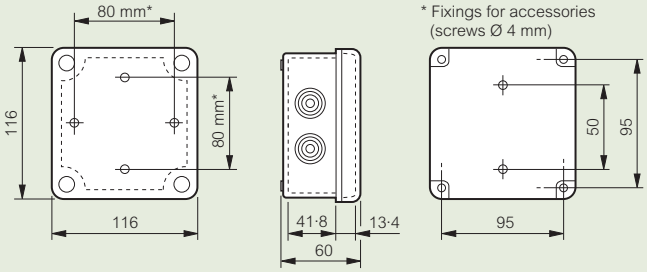
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions

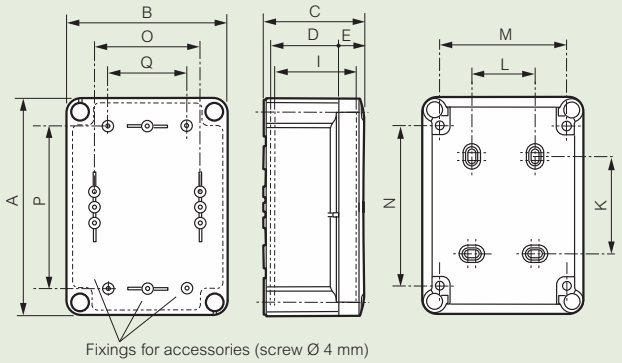
Cat. No. 0921 28



Cat. No. 0921 38



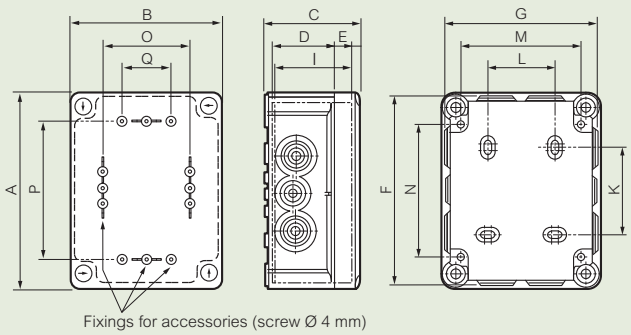
Boxes IP 55 – IK 07 and IP 66 – IK 08



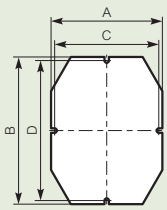
Boxes	Dimensions (mm)						Fixing points (mm)				Fixing accessories (screw Ø 4 mm)		
Cat. Nos.	A	B	C	D	E	I	K	L	M	N	O	P	Q
0359 00/01 0350 07(1)	140	85	81	56	18	67	70	-	65	120	51	106	–
0359 30/31 0350 13	150	150	81	56	18	67	54	70	120	103	106	106	84
0359 40/41 0350 17	175	130	81	56	18	67	79	50	100	128	86	131	64
0359 50/51 0350 22	200	160	94	69	18	80	104	50	130	153	116	156	94
0359 60/61 0350 28	240	190	94	69	18	80	144	80	160	193	146	196	124
0359 70/71 0350 33	290	190	94	69	18	80	194	80	160	243	146	246	122
0359 80/81 0350 44	332	262	132	97	27	116	220	160	222	276	200	260	150
0359 90/91 0350 47	382	292	132	97	27	116	270	190	252	326	230	310	150

(1) Not suitable for direct mounting of IP 2x terminals, use with DIN rail or 12 x 2 mm metal rail (Cat. No. 0048 19 p. 440)

Cat. Nos. 0920 32 and 0920 42



■ Mounting plates for PS, PP and PC boxes



Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
0358 10	114	114	106	106
0358 11	94	139	86	131
0358 12	124	164	116	156
0358 13	154	204	146	196
0358 14	154	254	146	246
0358 15	211	271	200	260
0358 16	241	321	230	310

■ Nearest equivalent to old range

Old range			PS, PP and PC range (p. 410-411)			IP 66
Dimensions	Covers opaque	Covers transparent	Dimensions	Covers opaque	Covers transparent	Covers opaque
130x75x60	0350 04		130x75x74	0359 00	0359 01	0350 07
			130x130x74	0359 30	0359 31	0350 13
153x110x66	0350 20		155x110x74	0359 40	0359 41	0350 17
155x110x70	0922 50		155x110x74	0359 40	0359 41	0350 17
160x135x77	0350 31					
165x100x80	0350 06					
174x132x92	0350 26		180x140x86	0359 50	0359 51	0350 22
			180x140x86	0359 50	0359 51	0350 22
220x170x80	0921 08/0350 36	0922 73/0350 37	220x170x86	0359 60	0359 61	0350 28
220x170x140	0921 22/0350 38	0350 39				
265x174x92	0350 40	0350 41	270x170x86	0359 70	0359 71	0350 33
265x174x154	0350 43					
310x240x124	0922 80/0350 50	0350 51	310x240x124	0359 80	0359 81	0350 44
310x240x160	0922 84/0350 54					
359x265x92	0350 55	0350 57				
359x265x154	0350 58		360x270x124	0359 90	0359 91	0350 47

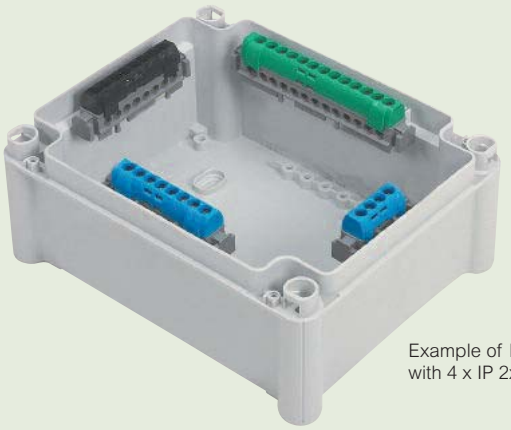
Note : some PVC boxes retained, see p. 413

■ IP 2x terminal acceptance(2) chart (see p. 440)

Not suitable for direct mounting on to PVC range nor 130 x 75 x 74 mm boxes

Boxes	4 way	8 way	13 way	17 way	22 way	28 way
130 x 130 x 74	x	x				
155 x 110 x 74	x	x	x			
180 x 140 x 86	x	x	x			
220 x 170 x 86	x	x	x	x	x	
310 x 240 x124	x	x	x	x	x	x
360 x 270 x 124	x	x	x	x	x	x

(2) Also accepts partly shrouded terminals



Example of box fitted with 4 x IP 2x terminals

Boxes	Dimensions (mm)								Fixing points (mm)				Fixing accessories (screw Ø 4 mm)		
Cat. Nos.	A	B	C	D	E	I	F	G	K	L	M	N	O	P	Q
0920 32	150	150	81	56	18	67	149	149	54	70	120	103	106	106	84
0920 42	175	130	81	56	18	67	173	128	79	50	100	128	86	131	64

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

industrial boxes
PVC range



0921 22



0350 43

Dimensions (opposite)

Grey RAL 7035
Temperature rating : – 25 °C to + 40 °C
Material : PVC
Self-extinguishing 960 °C
Undrilled with smooth sides
Complete dimensions available on request

Pack	Cat. Nos.	**Weatherproof boxes IP 55**
		Nominal internal dimensions : Height x Width x Depth (mm)
		Depth 140 mm
		IK 07
2	0921 22	220 x 170 x 140 - 4 x 1/4 turn cover fixings
		Depth 154 mm
		IK 08
2	0350 43	265 x 174 x 154 - 2 x 1/4 turn cover fixings + hinges
1	0350 58	359 x 265 x 154 - 2 x 1/4 turn cover fixings + hinges
		Depth 160 mm
		IK 08
1	0350 54	310 x 240 x 160 - 2 x 1/4 turn cover fixings + hinges
1	0922 84	310 x 240 x 160 - 4 x 1/4 turn cover fixings

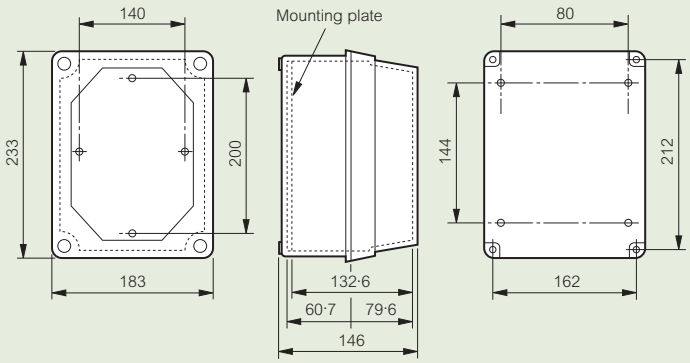
		Accessories
		Metal mounting plates
		Galvanised steel - 1·5 mm thick For PVC box size :
5	0350 90	220 x 170 mm
5	0350 92	265 x 174 mm
5	0350 93	310 x 240 mm
5	0350 94	359 x 265 mm
		Set of 4 wall lugs
1	0364 08	For PVC box size 310 x 240 mm only

PVC boxes are not provided with side mounts for IP 2x terminals

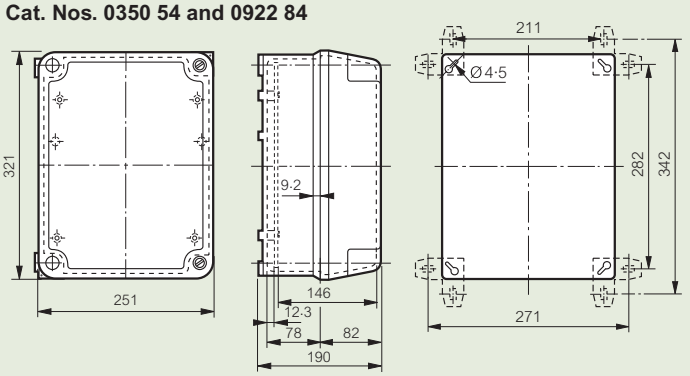
industrial boxes
PVC range

■ Dimensions

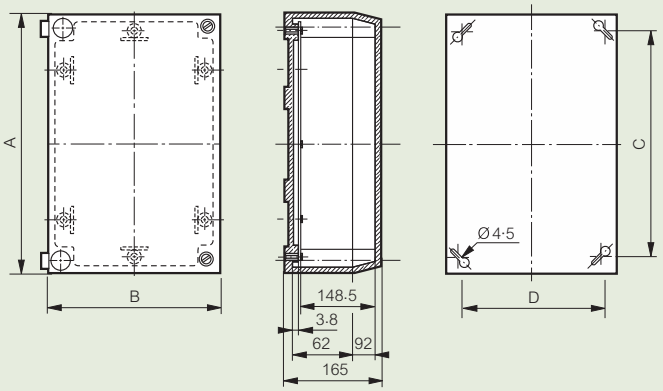
Cat. No. 0921 22



Cat. Nos. 0350 54 and 0922 84

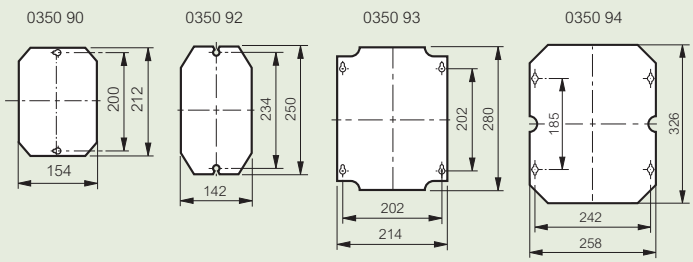


Cat. Nos. 0350 43/58



Cat. Nos.	Dimensions A (mm)	Dimensions B (mm)	Fixing points C (mm)	Fixing points D (mm)	Weight (kg)
0350 43	273	182	246	155	1·08
0350 58	367	273	340	246	1·80

■ Mounting plates for PVC boxes



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com



Power control, connection and cabling accessories

Power supplies and transformers


P. 416 Filtered and non-filtered power supplies


P. 419 Control transformers

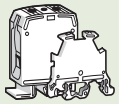

P. 421 Compact transformers

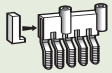

P. 423 Electrical characteristics


P. 424 How to calculate rated power and transformer protection

Viking 3


P. 426 Terminal blocks selection charts


P. 430 Terminal blocks with screw connection


P. 432 Accessories for screw connection terminal blocks


P. 436 Terminal blocks with spring connection

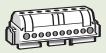

P. 436 Accessories for spring connection terminal blocks


P. 437 CAB 3 marking system for terminal blocks


P. 437 Marker sheets

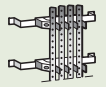

P. 438 Heavy duty terminal blocks

Distribution blocks

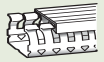

P. 440 Distribution terminal blocks

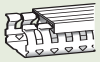

P. 441 Modular distribution blocks 40 to 160 A


P. 442 Four pole distribution blocks 125 to 400 A


P. 443 Busbars and supports

Cable ducting, ferrules and cable marking


P. 444 Transcab cable ducting


P. 445 Lina 25 cable ducting


P. 447 Starfix ferrules


P. 450 CAB 3 marking system

Cable ties


P. 452 Colring cable ties


P. 452 Colson cable ties

New in 2007



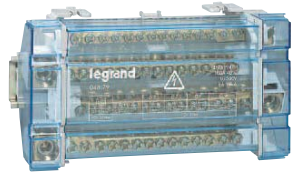
Control transformers

(p. 419)



Compact transformers

(p. 421)



Four pole modular style distribution blocks

(p. 441)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

filtered and non-filtered power supplies
open type single phase


0470 24


0470 53


0047 98

Dimensions (opposite)
Technical information (p. 417-418)

Filtered power supplies for PLCs and other equipment requiring a voltage of 12 V DC or 24 V DC
Non-filtered power supplies for installations requiring a 24 V DC voltage

Include :
- twin output terminals for ease of connection
- safety transformer with interference filtration
- fuse protection on output (except modular)
- green LED output voltage indicator (except modular)
- capacitor in filtered range
- PTC thermal protection on input (modular only)
- class II when installed with approved protection (modular only)

Supplied with a connection link for quick connection between - and ⏚ up to 15 A (except modular)

Single phase filtered

12 V⎓ output
230-400 V ± 15 V∿ (input) / 12 V⎓ (output)

Pack	Cat. Nos.	Power (W)	Current rating (A)	Terminal capacity (mm²) Flexible cable Input	Output
1	0470 01	12	1	6	6
1	0470 02	30	2·5	6	6
1	0470 03	60	5	6	6
1	0470 04	120	10	6	6

24 V⎓ output
230-400 V ± 15 V∿ (input) / 24 V⎓ (output)

Pack	Cat. Nos.	Power (W)	Current rating (A)	Terminal capacity (mm²) Flexible cable Input	Output
1	0470 20	12	0·5	6	6
1	0470 21	24	1	6	6
1	0470 22	60	2·5	6	6
1	0470 23	120	5	6	6
1	0470 24	240	10	6	6
1	0470 25	360	15	6	6

Single phase non-filtered

24 V⎓ output
230-400 V∿ ± 15 V (input)
24 V⎓ (output)

Pack	Cat. Nos.	Power (W)	Current rating (A)	Terminal capacity (mm²) Flexible cable Input	Output
1	0470 52	60	2·5	6	6
1	0470 53	120	5	6	6
1	0470 54	240	10	6	6
1	0470 55	360	15	6	6

Single phase filtered modular

12 V⎓ output
230 ± 15 V∿ (input) / 12 V⎓ (output)

Pack	Cat. Nos.	Power (W)	Current rating (A)	Terminal capacity (mm²) Flexible cable Input	Output
1	0047 95	15	1·3	6	6

24 V⎓ output
230 ± 15 V∿ (input) / 24 V⎓ (output)

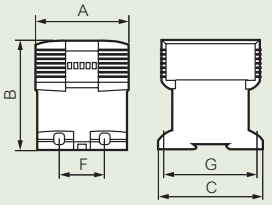
Pack	Cat. Nos.	Power (W)	Current rating (A)	Terminal capacity (mm²) Flexible cable Input	Output
1	0047 97	12	0·5	6	6
1	0047 98	21·5	0·9	6	6

filtered and non-filtered power supplies
open type single phase

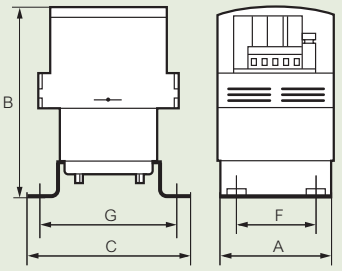
■ Dimensions

Cat. Nos.	A (mm) Width	B (mm) Depth	C (mm) Height	F x G (mm) Fixing ctrs	Ø (mm)	Weight (Kg)
0470 01	68	98	88	DIN ⎍	–	1·00
0470 02	93	121	105	DIN ⎍	4·6	2·45
0470 03	105	135	115	DIN ⎍	4·6	3·60
0470 04	126	186	175	75 x 150	5·5	6·35
0470 20	68	98	88	DIN ⎍	–	1·00
0470 21	68	98	88	DIN ⎍	–	1·00
0470 22	93	121	105	DIN ⎍	4·6	2·45
0470 23	105	135	115	DIN ⎍	4·6	3·60
0470 24	126	186	175	75 x 150	5·5	6·40
0470 25	126	206	175	75 x 150	5·5	7·60
0470 52	93	106	105	DIN ⎍	4·6	1·70
0470 53	105	135	115	DIN ⎍	4·6	3·40
0470 54	126	186	175	75 x 150	5·5	6·10
0470 55	126	206	175	75 x 150	5·5	7·30
0047 95	89	66	95	DIN ⎍	–	1·00
0047 97	89	66	95	DIN ⎍	–	1·00
0047 98	89	66	95	DIN ⎍	–	1·00

Single phase filtered

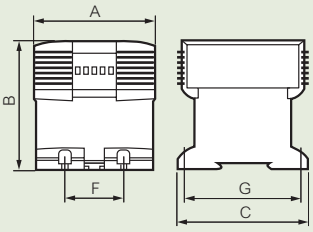


Cat. Nos. 0470 01/02/03 and 0470 20/21/22/23

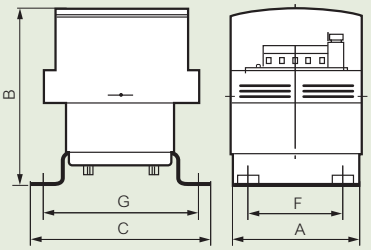


Cat. Nos. 0470 04/24/25

Single phase non-filtered

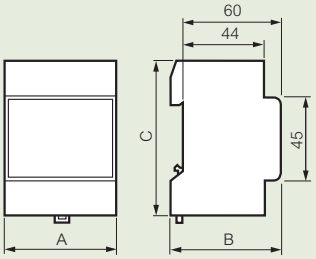


Cat. Nos. 0470 52/53

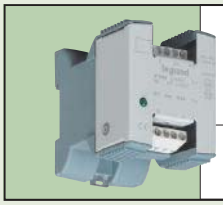


Cat. Nos. 0470 54/55

Single phase filtered modular



Cat. Nos. 0047 95/97/98



Stabilised power supplies available to special order

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

filtered power supplies
open type single phase

■ Technical information

Cat. Nos. 0470 01/02/03/04/20/21/22/23/24 and 25

Conform to IEC/EN 61558-2-6, UL 60950
CAN/CSA C22.2 N° 60 950.00

Products are compatible with EN 61131-2, EN 60204 and EN 60439-1 apparatus

Input voltage : 230/400 V~ ±15 V single phase 50/60 Hz - Class I
Output voltage : 12 V⎓ or 24 V⎓
Insulation voltage : Input/Output 4 510 V
Input/Earth 2 260 V
Output/Earth 500 V
Max. ambient temperature without derating : 60 °C
Ripple factor : <3 %
Cooling by natural convection
Integral fuse protection on output
Can be fixed to symmetrical rail ⊔ 7·5 mm or 15 mm depth EN 60715
Screw fix only Cat. Nos. 0470 04/24 and 25
Screw fix or clip on to DIN rail Cat. Nos. 0470 02/03/22 and 23
Supplied with a connection link for quick connection between terminals and earth

Note : To conform to UL, product must be mounted in the vertical position (mounting against support) for Class A ambient temperature rating 25 °C

Cat. Nos. 0047 95/97 and 98

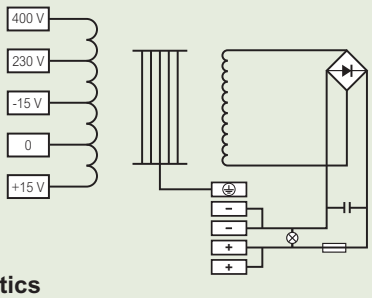
Conform to IEC/EN 61558-2-6, UL 60950, CAN/CSA C22.2 N° 60 950.00

Products are compatible with EN 61131-2, EN 60204 and EN 60439-1 apparatus

Input voltage : 230 V~ ±15 V single phase 50/60 Hz
Output voltage : 12 V⎓ or 24 V⎓
Insulation voltage : Input/Output 3 550 V
Max. ambient temperature without derating : 60 °C
Ripple factor : <3 %
PTC thermal protection on input
Insulation : Class II after enclosing behind insulated modular protection
Fix to symmetrical rail ⊔ 7·5 mm or 15 mm depth EN 60715
(5 x 17·5 mm modules)

■ Operating diagram

Operating current up to 15 A



■ Circuit protection (double pole MCB)

Single phase		Input 230/400 V ±15 V			
I \ U	Protection	12 V		24 V	
		Internal	External	Internal	External
0·5 A	Power supply			0470 20	
	MCB/Fuse			T 0·5 A L(1)	0069 12 (1 A)
	Power supply			0047 97(2)	
	MCB/Fuse			PTC	0069 12 (1 A)
0·9 A	Power supply			0047 98(2)	
	MCB/Fuse			PTC	0069 12 (1 A)
1 A	Power supply	0470 01		0470 21	
	MCB/Fuse	T 1 A L(1)	0069 12 (1 A)	T 1 A L(1)	0069 12 (1 A)
1·3 A	Power supply	0047 95(2)			
	MCB/Fuse	PTC	0069 13 (2 A)		
2·5 A	Power supply	0470 02		0470 22	
	MCB/Fuse	T 2·5 A L(1)	0069 14 (3 A)	T 2·5 A L(1)	0069 14 (3 A)
5 A	Power supply	0470 03		0470 23	
	MCB/Fuse	T 5 A L(1)	0069 16 (6 A)	T 5 A L(1)	0069 16 (16 A)
10 A	Power supply	0470 04		0470 24	
	MCB/Fuse	T 10 A L(1)	0069 18 (10 A)	T 10 A L(1)	0069 18 (10 A)
15 A	Power supply			0470 25	
	MCB/Fuse			0133 16(3)	0069 20 (16 A)

(1) T type fuse is a time delay fuse (5 x 20 mm)
(2) Filtered modular power supply
(3) Type gG fuse 10 x 38 mm

■ Primary fuse protection required for UL conformity

Supply 230 V : Use 250 V time delay HRC fuse
UL Category Code JDYX2

Supply 400 V : Use 500 V time delay HRC fuse
UL Category Code JDYX

Secondary voltage	12 V		24 V	
Primary voltage	230 V~	400 V~	230 V~	400 V~
Power supply			0470 20	
Fuse rating			0·315 A T	2/10 A
Power supply	0470 01		0470 21	
Fuse rating	0·315 A	2/10 A	0·4 A	2/10 A
Power supply	0470 02		0470 22	
Fuse rating	0·8 A	4/10 A	1 A	6/10 A
Power supply	0470 03		0470 23	
Fuse rating	1·6 A	8/10 A	2 A	1 A
Power supply	0470 04		0470 24	
Fuse rating	3·15 A	1 1/2 A	4 A	2 1/4 A
Power supply			0470 25	
Fuse rating			6·3 A	3 A

■ Electrical characteristics

Filtered

Cat. Nos.	Voltage (V)	Current rating (A)	Weight (Kg)	Input under load 230 V (A)	Input under load 400 V (A)	Operating voltage: No-load (V)	Operating voltage: Underload (V)	Operating voltage: With 100 mA load and input voltage +10%	Operating voltage: With nominal load input voltage –15%	No-load loss (W)	Total loss at nominal load 100 % (W)	Voltage drop (%)
Output 12 V												
0470 01	12	1	1	0·12	0·06	14·4	11·7	15·5	10·3	4·4	7·3	23·5
0470 02	12	2·5	2·45	0·33	0·19	13·9	11·6	15·2	10·2	8·3	11·9	19·4
0470 03	12	5	3·6	0·60	0·34	14·1	12·1	15·5	10·5	11·4	17·1	17·2
0470 04	12	10	6·35	1·24	0·72	14·7	11·8	16·1	10·4	20·2	33·7	24·7
Output 24 V												
0470 20	24	0·5	1	0·12	0·06	27·6	22·9	29·4	20·1	4·4	7·3	20·66
0470 21	24	1	1	0·18	0·10	29·0	22·8	31·2	20·2	4·4	10·3	27·03
0470 22	24	2·5	2·45	0·47	0·27	27·8	23·3	30·4	20·4	8·3	16·3	19·46
0470 23	24	5	3·6	0·88	0·51	27·5	23·2	30·2	20·3	11·4	25·4	18·68
0470 24	24	10	6·35	1·88	1·09	27·7	23·5	30·5	20·5	20	45·3	18·20
0470 25	24	15	7·6	2·53	1·46	27·5	23·2	30·2	20·2	23	54·7	18·70

Filtered modular

Cat. Nos.	Voltage (V)	Current rating (A)	Weight (Kg)	Input under load 230 V (A)	Operating voltage: No-load (V)	Operating voltage: Underload (V)	Operating voltage: With 100 mA load load input voltage +10%	Operating voltage: With nominal load input voltage –15%	No-load loss (W)	Total loss at nominal load 100 % (W)	Voltage drop (%)
0047 95	12	1·3	1	0·15	15·1	11·8	16·3	10·4	3·4	8·7	28·5
0047 97	24	0·5	1	0·13	28·9	23·6	30·6	20·7	3·4	7·1	22·3
0047 98	24	0·9	1	0·17	29·9	22·8	32·0	20·3	3·4	10·4	31·0

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

non-filtered power supplies
open type single phase

■ Technical information

Cat. Nos. 0470 52/53/54 and 55

Conform to IEC/EN 61558-2-6, UL 60950, CAN/CSA C22.2 N° 60 950.00

Input voltage : 230/400 V~ ±15 V single phase 50/60 Hz - Class I
Output voltage : 24 V⎓
Insulation voltage : Input/Output 4 510 V
Input/Earth 2 260 V
Output/Earth 500 V
Max. ambient temperature without derating : 60 °C
Ripple factor : 48 %
Cooling by natural convection
Integral fuse protection on output
All except Cat. Nos. 0470 54 and 55 can be fixed to symmetrical rail ⊥ 7·5 mm or 15 mm depth EN 60715
Screw fix or clip on to DIN rail Cat. Nos. 0470 52 and 53
Screw fix only Cat. Nos. 0470 54 and 55
Supplied with a connection link for quick connection between terminals and earth up to 15 A

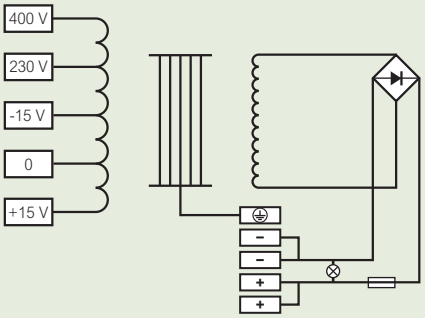
■ Circuit protection (double pole MCB)

Single phase		Input 230/400 V ±15 V	
U / I	Protection	24 V	
		Internal	External
2·5 A	Power supply	0470 52	
	Fuse/MCB	T 2·5 A L(1)	0069 14 (3 A)
5 A	Power supply	0470 53	
	Fuse/MCB	T 5 A L(1)	0069 16 (6 A)
10 A	Power supply	0470 54	
	Fuse/MCB	T 10 A L(1)	0069 18 (10 A)
15 A	Power supply	0470 55	
	Fuse/MCB	0133 16(2)	0069 20 (16 A)

(1) T type fuse is a time delay fuse (5 x 20 mm)
(2) Type gG fuse 10 x 38 mm

■ Operating diagram

Operating current up to 15 A



■ Electrical characteristics

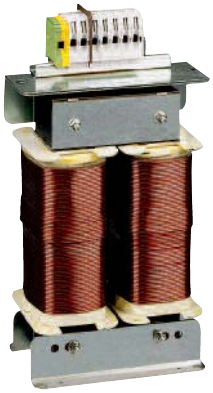
Cat. Nos.	Voltage (V)	Current rating (A)	Weight (Kg)	Input under load		Operating voltage		No-load loss (W)	Total loss at nominal load 100 % (W)	Voltage drop (%)
				230 V (A)	400 V (A)	No-load (V)	Underload (V)			
0470 52	24	2·5	1·7	0·39	0·23	27·5	23·4	6·2	17·8	17·5
0470 53	24	5	3·4	0·77	0·44	27·0	24·0	11·4	26·9	12·7
0470 54	24	10	6·1	1·49	0·86	26·3	23·8	20	43	10·7
0470 55	24	15	7·3	2·13	1·22	25·5	23·5	23	47·6	8·6

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

control transformers
open type single phase


0442 35


0442 68


0442 71

Dimensions and technical information (p. 420)

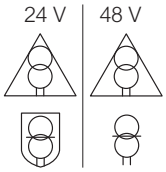
IP 2x or xxB up to 400 VA
IP xxA above 400 VA - IK 04
Conform to IEC/EN 61558-2-2 and 2-4 or 2-6
UL506 and CSA C22-2-N°66
Products suitable for building into equipment conforming to EN 61131-2, EN 60204-1 and EN 60439-1 standards
Insulated covers up to 1 000 VA provided
Interference/disturbance filter included
Screw fix to mounting plate or clip on to DIN rail up to 250 VA
Supplied with 0V/Earth connection link up to 1 000 VA

Single phase

Safety isolating transformers (24 V)
Safety isolating transformers (48 V)

Primary : 230-400 V ± 15 V
Secondary : 24-48 V
Supplied with 2 links

Pack	Cat. Nos.	Power in VA according to IEC and CSA	Power in VA according to UL	Admissible instantaneous power at cos φ = 0·5
1	0442 31	40	40	52
1	0442 32	63	63	87
1	0442 33	100	100	150
1	0442 34	160	140	250
1	0442 35	250	210	420
1	0442 36	400	300	900
1	0442 37	630	500	1 700
1	0442 38	1 000	700	2 000
1	0442 39	1 600	700	8 500
1	0442 40	2 500	1 400	3 300



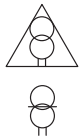
c UL us LISTED IND.CONT.EQ

Single phase

Safety isolating transformers

Primary : 230-400 V ± 15 V
Secondary : 115-230 V
Supplied with 2 links

Pack	Cat. Nos.	Power in VA according to IEC and CSA	Power in VA according to UL	Admissible instananeous power at cos φ = 0·5
1	0442 61	40	40	50
1	0442 62	63	63	86
1	0442 63	100	100	150
1	0442 64	160	140	250
1	0442 65	250	210	430
1	0442 66	400	300	1 200
1	0442 67	630	500	1 600
1	0442 68	1 000	700	2 000
1	0442 69	1 600	700	6 100
1	0442 70	2 500	1 300	7 100
1	0442 71	4 000	2 400	11 400



c UL us LISTED IND.CONT.EQ



For modular transformers

see p. 363

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Dimensions

Fig. 1 : 40 to 400 VA

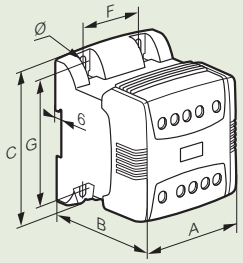
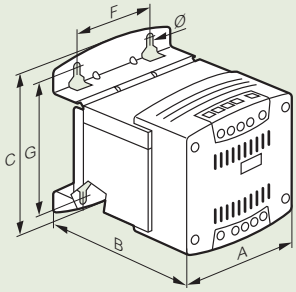
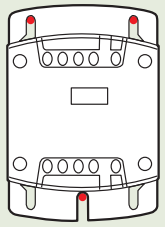


Fig. 2 : 630 to 1 000 VA





Oblong fixings :
Attachment at
3 points possible

Fig. 3 : 1 600 to 2 500 VA

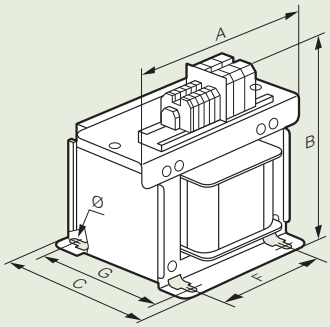
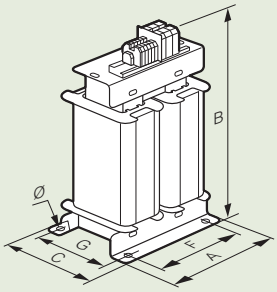


Fig. 4 : 4 000 to 8 000 VA



Cat. Nos.	Power (VA)	Fig.	Dimensions (mm)			Fixing[1] (mm)			Weight (Kg)
			A	B	C	F	G	Ø	
0442 31/61	40	1	94	78	113	50	100	5·2	1·23
0442 32/62	63	1	94	85	113	50	100	5·2	1·56
0442 33/63	100	1	94	94	113	50	100	5·2	1·95
0442 34/64	160	1	94	112	113	50	100	5·2	2·6
0442 35/65	250	1	106	123	115	50	100	5·2	3·82
0442 36/66	400	1	120	140	140	62·5	125	5·2	5·62
0442 37/67	630	2	150	158	206	100	175	7	9·9
0442 38/68	1 000	2	150	199	206	100	175	7	14·9
0442 39/69	1 600	3	220	245	191	150	153	9	25·6
0442 40/70	2 500	3	300	292	171	200	114	9	33·1
0442 71	4 000	4	230	340	205	180	130	11	31

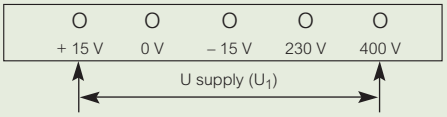
Note : 40-250 VA transformers have juxtaposed windings with an insulated barrier to provide insulation and interference filtering. Higher ratings have an electrostatic screen between windings.

(1) Up to 250 VA may be fixed to symmetrical ⊔ DIN rail

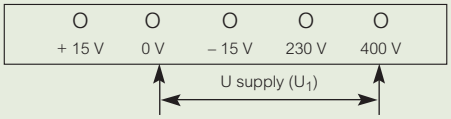
■ Characteristics

Single phase 50-60 Hz - Class 1
Insulation voltage between windings : 4 510 V
Maximum ambient operating temperatures : 50 °C without derating

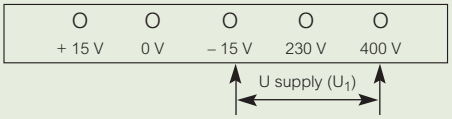
Voltage adjustment



1) if $U_1 > 230$ or 400 V
2) if $I_2 < I_{2n}$ (if the load is less than the nominal load reduce the secondary voltage)



if $U_1 = 230$ or 400 V with load $I_2 = I_{2n}$



if $U_1 < 230$ or 400 V with load $I_2 = I_{2n}$

Cat. Nos.	Power (VA)	Admissible instantaneous power (VA) at cos φ of :									No-load loss (W)	On-load loss[2] (W)	Voltage drop as (%) with cos φ :			Efficiency (%) with cos φ :			Ucc (%)	Connection capacity			
																				Primary cable (mm²)		Secondary cable (mm²)	
		0·2	0·3	0·4	0·5	0·6	0·7	0·8	0·9	1			0·3	0·6	1	0·3	0·6	1		flexible	rigid	flexible	rigid
Primary 230-400 V ± 15 V - Secondary 24-48 V																							
0442 31	40	63	58	55	52	50	48	48	49	60	3·9	7·3	8·7	10·5	8·5	62	77	84	10·0	1 to 4	1 to 4	1 to 4	1 to 4
0442 32	63	110	102	94	87	83	79	77	78	91	6·0	14·2	7·5	9·4	8·5	57	73	82	9·0	1 to 4	1 to 4	1 to 4	1 to 4
0442 33	100	200	180	160	150	140	130	130	130	150	8·2	15·1	7·3	9·3	8·9	66	80	87	8·9	1 to 4	1 to 4	1 to 4	1 to 4
0442 34	160	340	300	270	250	230	220	210	210	230	11·2	24·6	5·8	7·6	7·7	66	80	87	7·2	1 to 4	1 to 4	1 to 4	1 to 4
0442 35	250	550	490	450	420	400	380	370	370	430	14·9	31·4	5·2	6·6	6·2	70	83	89	6·1	1 to 4	1 to 4	1 to 4	1 to 4
0442 36	400	1 800	1 300	1 100	900	800	700	600	600	500	18·3	46·3	2·1	3·7	5·6	72	84	90	4·2	1 to 4	1 to 4	1 to 4	1 to 4
0442 37	630	2 700	2 200	1 900	1 700	1 500	1 300	1 200	1 200	1 200	24·1	49·4	2·0	3·0	3·9	79	88	93	3·3	1 to 16	1 to 16	1 to 16	1 to 16
0442 38	1 000	3 400	2 800	2 300	2 000	1 800	1 600	1 500	1 400	1 300	44·2	74·4	1·3	1·9	2·9	80	89	93	2·4	1 to 16	1 to 16	1 to 16	1 to 16
0442 39	1 600	12 800	10 900	9 500	8 500	7 700	7 100	6 700	6 400	6 600	65·5	94·7	1·1	1·6	1·9	84	91	94	1·7	2·5 to 10	1·5 to 16	4 to 16	1·5 to 25
0442 40	2 500	4 300	3 900	3 600	3 300	3 100	3 000	2 900	2 900	3 400	86·5	143·4	1·8	2·2	2·0	84	91	95	1·9	4 to 16	1·5 to 25	4 to 35	2·5 to 50
Primary 230-400 V ± 15 V - Secondary 115-230 V																							
0442 61	40	62	57	53	50	48	47	46	47	57	3·9	7·4	8·7	10·5	8·8	62	76	84	10·1	1 to 4	1 to 4	1 to 4	1 to 4
0442 62	63	110	100	93	86	82	78	76	76	90	6·0	11·8	7·6	9·6	8·9	62	76	84	9·2	1 to 4	1 to 4	1 to 4	1 to 4
0442 63	100	200	180	160	150	140	140	130	130	150	8·2	17·3	7·2	9·2	8·6	63	78	85	8·7	1 to 4	1 to 4	1 to 4	1 to 4
0442 64	160	330	300	270	250	240	230	220	220	250	11·2	23·4	5·8	7·4	7·1	67	80	87	6·9	1 to 4	1 to 4	1 to 4	1 to 4
0442 65	250	560	510	460	430	410	390	380	370	430	14·9	31·7	5·2	6·6	6·2	70	83	89	6·1	1 to 4	1 to 4	1 to 4	1 to 4
0442 66	400	2 200	1 700	1 400	1 200	1 000	910	830	760	730	18·3	43·9	2·1	3·6	5·2	73	85	90	4·1	1 to 4	1 to 4	1 to 4	1 to 4
0442 67	630	2 700	2 200	1 800	1 600	1 400	1 200	1 100	1 000	1 000	24·1	53·2	2·1	3·3	4·5	78	88	92	3·6	1 to 16	1 to 16	1 to 16	1 to 16
0442 68	1 000	3 400	2 800	2 300	2 000	1 800	1 600	1 500	1 400	1 300	44·2	73·6	1·3	2·0	2·7	80	89	93	2·2	1 to 16	1 to 16	1 to 16	1 to 16
0442 69	1 600	8 700	7 500	6 600	6 100	5 400	5 000	4 700	4 500	4 700	65·5	95·3	1·1	1·5	1·8	83	91	94	1·5	2·5 to 10	1·5 to 16	2·5 to 10	1·5 to 16
0442 70	2 500	9 200	8 300	7 600	7 100	6 700	6 300	6 200	6 100	7 100	86·5	150·1	1·8	2·3	2·2	83	91	94	2·0	4 to 16	1·5 to 25	4 to 16	1·5 to 25
0442 71	4 000	16 500	14 300	12 700	11 400	10 500	9 800	9 200	8 900	9 500	87·4	234·8	2·1	2·9	3·3	84	91	94	2·7	4 to 16	1·5 to 25	4 to 16	1·5 to 25
0442 72	5 000	28 500	23 400	19 900	17 500	15 600	14 200	13 100	12 300	12 300	87·4	279·0	1·5	2·3	2·9	84	91	95	2·3	4 to 16	1·5 to 25	4 to 16	1·5 to 25

(2) Total losses at nominal load

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

compact transformers
open type single phase


6425 00/0428 40


6425 46


0428 75


6425 85/0427 89

Technical information and dimensions (p. 422-423)
Transformer protection (p. 425)

Isolating and safety isolating <50 V transformers
Designed to meet the needs of users with specific VA ratings such as original equipment manufacturers
The 'Compact' range up to 220 VA and the new styles above 220 VA boast an elegant design that will enhance your panel
The terminals are designed to provide easy and quick connections
Transformers up to 160 VA can be clipped to ⊔ rail using accessory or directly fixed using screws through the easily accessible fixing points
Recommended protection :
• for 40 and 63 VA : Type T fuses (5x20) time delay fuse to IEC 60127
• for >100 VA use MCB Type C

Single phase

Safety isolating transformers
Primary : 230-400 V
Secondary : 12-24 V

Pack	Cat. Nos. Present[1]	Cat. Nos. New[2]	Power in VA according to IEC/EN	Admissible instantaneous power at cos φ 0·5
1	6425 00	0428 40	40 VA	55
1	6425 02	0428 41	63 VA	91
1	6425 03	0428 42	100 VA	140
1	6425 04	0428 43	160 VA	205
1	6425 05	0428 44	220 VA	290
1	6425 06	0428 45	310 VA	345

Safety isolating transformers (24 V)
Isolating transformers (48 V)
Primary : 230-400 V
Secondary : 24-48 V

Pack	Cat. Nos. Present[1]	Cat. Nos. New[2]	Power in VA according to IEC/EN	Admissible instantaneous power at cos φ 0·5
1	6425 40	0428 70	40 VA	55
1	6425 42	0428 71	63 VA	91
1	6425 43	0428 72	100 VA	140
1	6425 44	0428 73	160 VA	205
1	6425 45	0428 74	220 VA	290
1	6425 46	0428 75	310 VA	345
1	6425 48	0428 77	630 VA	1 520

Clips for fixing up to 160 VA on to rail EN 60715 ⊔

Pack	Cat. Nos.
10	0044 16

Claw width 10 mm
Threaded hole for M4 screws
(Use two clips per transformer)

Note : Other VA ratings available on request. Please consult us

Single phase

Isolating transformers
Primary : 230-400 V
Secondary : 115 V
With centre tap

Pack	Cat. Nos. Present[1]	Cat. Nos. New[2]	Power in VA according to IEC/EN	Admissible instantaneous power at cos φ 0·5
1	6425 60		40 VA	55
1	6425 62	6423 62	63 VA	91
1	6425 63	6423 63	100 VA	140
1	6425 64	6423 64	160 VA	205
1	6425 65	6423 65	220 VA	290
1	6425 66	6423 66	310 VA	345
1	6425 68	6423 68	630 VA	1 520

Isolating transformers
Primary : 230-400 V
Secondary : 115-230 V

Pack	Cat. Nos. Present[1]	Cat. Nos. New[2]	Power in VA according to IEC/EN	Admissible instantaneous power at cos φ 0·5
1	6425 80	0427 85	40 VA	55
1	6425 82	0427 86	63 VA	91
1	6425 83	0427 87	100 VA	140
1	6425 84	0427 88	160 VA	205
1	6425 85	0427 89	220 VA	290
1	6425 86	0427 90	310 VA	345
1	6425 88	0427 92	630 VA	1 520

Isolating transformers
Primary : 230-400 V
Secondary : 230 V

Pack	Cat. Nos.	Power in VA according to IEC/EN	Admissible instantaneous power at cos φ 0·5
1	6426 00[3]	40 VA	55
1	6426 02[3]	63 VA	91
1	6426 03[3]	100 VA	140
1	6426 05[3]	220 VA	290
1	6426 06[3]	310 VA	615
1	6426 07[3]	450 VA	1 100
1	6426 08[3]	630 VA	1 520



For modular transformers

see p. 363



For protection devices

see p. 358

(1) Only available whilst stocks last in present Cat. Nos.
(2) New Cat. Nos., (from mid/late 2007) same product with style change above 220 VA

(1) Only available whilst stocks last in present Cat. Nos.
(2) New Cat. Nos., (from mid/late 2007) same product with style change above 220 VA
(3) Only available while stocks last, use above for replacement

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Technical information

Conform to IEC/EN 61558-2-4 for 48 V, 115 V and 230 V and IEC/EN 61558-2-6 for 12 V and 24 V secondary

Products suitable for building into equipment conforming to EN 61131-2, EN 60204-1 and EN 60439-1 standards
IP 2x or xxB up to 250 VA - IK 04
Single phase 50-60 Hz - class I

Insulation voltage: Primary/Secondary 4 470 V
Primary/Earth 2 240 V
Secondary/Earth (12 - 24 V) = 250 V ; 48, 115 and 230 V = 1 780 V
Max. ambient operating temperature : 35 °C without derating
Protected against accidental contact with live parts up to 220 VA

■ Dimensions

Fig. 1 - 40 to 220 VA

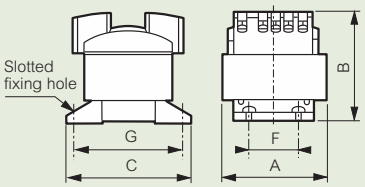


Fig. 2 - 310 VA(1) - new range

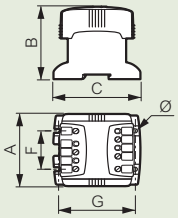
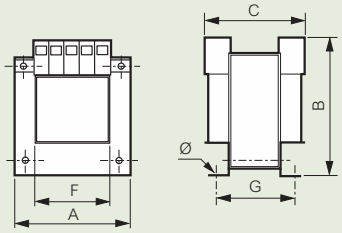


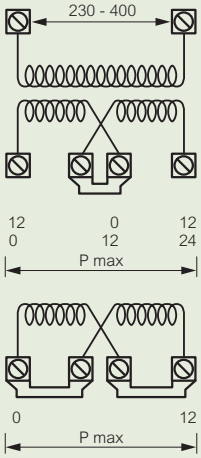
Fig. 3 - 310 to 630 VA(1) - present range and 450 to 630 VA - new range



(1) Subject to secondary voltage (see tables)

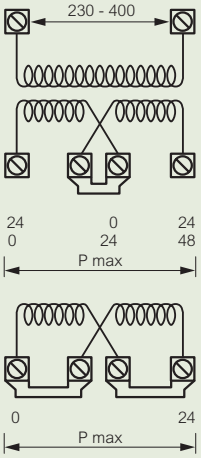
Primary : 230 - 400 V
Secondary : 12 - 0 - 12 V
0 - 12 - 24 V

Cat. Nos.
6425 00 to 6425 05 and
0428 40 to 0428 45



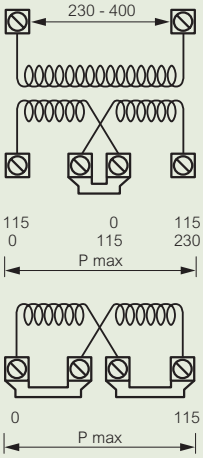
Primary : 230 - 400 V
Secondary : 24 - 0 - 24 V
0 - 24 - 48 V

Cat. Nos.
6425 40 to 6425 48 and
0428 70 to 0428 77



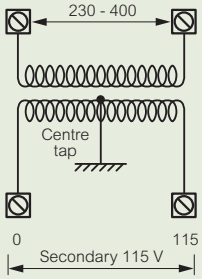
Primary : 230 - 400 V
Secondary : 115 - 0 - 115 V
0 - 115 - 230 V

Cat. Nos.
6425 80 to 6425 88 and
0427 85 to 0427 92



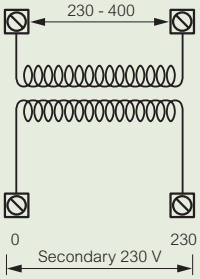
Primary : 230 - 400 V
Secondary : 115 V

Cat. Nos.
6425 60 to 6425 68 and
6423 60 to 6423 68



Primary : 230 - 400 V
Secondary : 230 V

Cat. Nos.
6426 00 to 6426 08



■ Electrical characteristics for 230-400 V primary - 24 V or 2 x 12 V secondary

Cat. Nos. Present/New	Power (VA)	Dimensions (mm)			Fixing (mm)			Weight (kg)	No-load loss (W)	Total losses @ 100% load (W)	Voltage drop as % with		Efficiency with		Ucc %	Primary connection cable mm²			Secondary connection cable mm²			Fig.
		A	B	C	F	G	Ø				cos φ 1	cos φ 0·45	cos φ 1	cos φ 0·45		flexible	rigid	ø mm	flexible	rigid	ø mm	
6425 00/0428 40	40	84	70	98	40	86	4·5	0·9	3·7	13·1	18·3	12·7	0·75	0·6	15·6	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 02/0428 41	63	84	77	98	40	86	4·5	1·3	4·9	16·3	13·5	10·2	0·8	0·6	11·8	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 03/0428 42	100	84	86	98	40	86	4·5	1·6	6·2	21·0	10·5	8·7	0·8	0·7	9·5	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 04/0428 43	160	84	104	98	40	86	4·5	2·4	9·1	31·8	8·8	7·4	0·8	0·7	7·9	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 05/0428 44	220	96	115	110	40	98	4·5	3·4	12·6	40·0	6·9	6·3	0·85	0·7	6·5	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 06	310	126	126	107	90	76	6·5	4·6	15·1	54·9	7·2	4·1	0·86	0·74	5·9	1 to 4	1 to 4	4·5	1 to 16	1 to 25	6·5	3
0428 45	310	106	123	115	50	100	5·2	3·8	14·2	54·9	7·3	6·2	0·85	0·7	8·2	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Electrical characteristics for 230-400 V primary - 48 V or 2 x 24 V secondary

Cat. Nos. Present/New	Power (VA)	Dimensions (mm)			Fixing (mm)			Weight (kg)	No-load loss (W)	Total losses @ 100% load (W)	Voltage drop as % with		Efficiency with		Ucc %	Primary connection cable mm²			Secondary connection cable mm²			Fig.
		A	B	C	F	G	Ø				cos φ 1	cos φ 0·45	cos φ 1	cos φ 0·45		flexible	rigid	ø mm	flexible	rigid	ø mm	
6425 40/0428 70	40	84	70	98	40	86	4·5	0·9	3·7	12·9	18	12·5	0·8	0·6	15·4	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 42/0428 71	63	84	77	98	40	86	4·5	1·3	4·9	16·5	13·7	10·3	0·8	0·6	11·9	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 43/0428 72	100	84	86	98	40	86	4·5	1·6	6·2	21·0	10·4	8·7	0·8	0·7	9·4	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 44/0428 73	160	84	104	98	40	86	4·5	2·4	9·1	31·6	8·7	7·3	0·8	0·7	7·8	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 45/0428 74	220	96	115	110	40	98	4·5	3·4	12·6	39·5	6·7	6·2	0·85	0·7	6·3	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 46	310	108	110	124	84	90	6·5	4·6	15·1	54·9	7·3	6·2	0·85	0·7	8·2	1 to 4	1 to 4	4·5	1 to 16	1 to 25	6·5	3
6425 48/0428 77	630	126	126	141	90	105	6·5	8	25·5	63·3	4·2	2·6	0·9	0·8	3·5	1 to 4	1 to 4	4·5	1 to 16	1 to 25	6·5	3
0428 75	310	106	123	115	50	100	5·2	3·8	14·2	54·9	7·3	6·2	0·85	0·7	8·2	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	2

■ Electrical characteristics for 230-400 V primary - 115 V with centre tap

Cat. Nos. Present/New	Power (VA)	Dimensions (mm)			Fixing (mm)			Weight (kg)	No-load loss (W)	Voltage drop as % with		Efficiency with		Ucc %	Primary connection cable mm²			Secondary connection cable mm²			Fig.
		A	B	C	F	G	Ø			cos φ 1	cos φ 0·45	cos φ 1	cos φ 0·45		flexible	rigid	ø mm	flexible	rigid	ø mm	
6425 60	40	84	70	98	40	86	4·5	1	3·7	15·6	12·6	0·79	0·62	14·2	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 62/6423 62	63	84	77	98	40	86	4·5	1·3	4·9	12·9	9·6	0·80	0·65	10·9	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 63/6423 63	100	84	86	98	40	86	4·5	1·6	6·2	11·3	8·9	0·83	0·68	9·7	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 64/6423 64	160	84	104	98	40	86	4·5	2·4	9·1	9·1	7·3	0·83	0·69	7·8	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 65/6423 65	220	96	115	110	40	98	4·5	3·4	12·6	6·9	6·2	0·85	0·71	6·3	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 66/6423 66	310	108	110	105	84	90	6·5	4·5	15·1	6·1	3·3	0·84	0·71	4·9	1 to 4	1 to 4	4·5	1 to 16	1 to 25	4·5	3
6425 68/6423 68	630	126	126	123	90	105	6·5	7·8	25·5	4·3	2·6	0·91	0·82	3·5	1 to 4	1 to 4	4·5	1 to 16	1 to 25	4·5	3

New style from mid/late 2007 - data available on request

■ Electrical characteristics for 230-400 V primary - 115/230 V secondary

Cat. Nos. Present/New	Power (VA)	Dimensions (mm)			Fixing (mm)			Weight (kg)	No-load loss (W)	Total losses @ 100% load (W)	Voltage drop as % with		Efficiency with		Ucc %	Primary connection cable mm²			Secondary connection cable mm²			Fig.
		A	B	C	F	G	Ø				cos φ 1	cos φ 0·45	cos φ 1	cos φ 0·45		flexible	rigid	ø mm	flexible	rigid	ø mm	
6425 80/0427 85	40	84	70	98	40	86	4·5	1	3·7	10·9	18·5	12·7	0·75	0·58	15·7	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 82/0427 86	63	84	77	98	40	86	4·5	1·3	4·9	15·6	12·5	9·7	0·80	0·65	11	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 83/0427 87	100	84	86	98	40	86	4·5	1·6	6·2	21·1	10·7	8·9	0·83	0·68	9·7	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 84/0427 88	160	84	104	98	40	88	4·5	2·4	9·1	32·3	8·8	7·3	0·83	0·69	7·9	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 85/0427 89	220	96	115	110	40	98	4·5	3·4	12·6	40·1	6·8	6·2	0·85	0·71	6·4	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6425 86	310	108	110	105	84	90	6·5	4·6	15·1	54	5·7	3	0·85	0·71	4·6	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	3
6425 88/0427 92	630	126	126	123	90	105	6·5	7·8	25·5	64·6	4·3	2·6	0·91	0·81	3·5	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	3
0427 90	310	106	123	115	50	100	5·2	3·8	14·2	54	7·3	6·2	0·85	0·7	8·2	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	2

■ Electrical characteristics for 230-400 V primary - 230 V secondary

Cat. Nos.	Power (VA)	Dimensions (mm)			Fixing (mm)			Weight (kg)	No-load loss (W)	Voltage drop as % with		Efficiency with		Ucc %	Primary connection cable mm²			Secondary connection cable mm²			Fig.
		A	B	C	F	G	Ø			cos φ 1	cos φ 0·45	cos φ 1	cos φ 0·45		flexible	rigid	ø mm	flexible	rigid	ø mm	
6426 00	40	84	70	98	40	86	4·5	1	4	18·5	12·7	0·75	0·58	15·7	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6426 02	63	84	77	98	40	86	4·5	1·3	4·9	12·5	9·7	0·80	0·65	11	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6426 03	100	84	86	98	40	86	4·5	1·6	6·2	10·7	8·9	0·83	0·68	9·7	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6426 05	220	96	115	110	40	98	4·5	3·4	12·6	6·8	6·2	0·85	0·71	6·4	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	1
6426 06	310	108	110	105	84	90	6·5	4·6	15·1	5·7	3	0·85	0·71	4·6	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	3
6426 07	450	126	126	108	90	94	6·5	6	21·8	6	3·2	0·87	0·76	4·9	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	3
6426 08	630	126	126	123	90	105	6·5	7·8	25·5	4·3	2·6	0·91	0·81	3·5	1 to 4	1 to 4	4·5	1 to 4	1 to 4	4·5	3

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

how to calculate
the rated power of a transformer

In equipment containing control devices, the transformer power depends on the maximum power required at a given moment (inrush power), the permanent power, the voltage drop and power factor

When determining the permissible instantaneous power (inrush power) required, the following factors should always be taken into account :

- two inrush currents cannot occur at the same time
- power factor cos φ equals 0·5
- at maximum, 80% of devices are supplied at the same time (this percentage can be calculated precisely for each device)

■ Determination of the inrush power

Where a simplified calculation of the power is required, the following formula can be used :

P inrush = 0·8 (ΣPm + ΣPv + Pa)

ΣPm : sum of all contactor steady state power levels (holding power)
ΣPv : sum of all power levels of indicators and LEDs*
Pa : inrush power of the largest contactor

Example :

A machine tool control cabinet comprising :

- 10 contactors for 4 kW motors, with a steady state power of 8 VA
- 2 contactors for 18·5 kW motor, with a steady state power of 20 VA
- 1 contactor for 45 kW motor, with a steady state power of 20 VA, and an inrush power of 250 VA cos φ 0·5
- 20 remote control relays, with a steady state power of 4 VA
- 30 signalling LEDs, with a consumption of 1 VA each

- ΣPm = 220 VA {(10 x 8 VA) + (2 x 20 VA) + (1 x 20 VA) + (20 x 4 VA)}
- ΣPv = 30 VA (30 x 1 VA)
- Pa = 250 VA

P inrush = 0·8 (220 + 30 + 250) = 400 VA at cos φ 0·5

■ Determination of the rated power of a transformer

For control transformers, in particular, simply start with an inrush power at cos φ 0·5 and read the size from the table below

Rated power in VA IEC and CSA	Admissible instantaneous power in VA IEC/EN 61558-2-2 with cos φ of:								
	0·2	0·3	0·4	0·5	0·6	0·7	0·8	0·9	1
40	90	80	72	66	61	57	53	51	53
63	160	140	130	120	110	100	90	90	90
100	240	190	170	160	150	140	130	130	140
160	480	400	350	300	270	240	220	200	190
250	830	690	590	510	450	400	360	330	310
400	1 600	1 400	1 200	1 000	900	800	800	700	700
630	2 000	1 800	1 500	1 400	1 200	1 100	1 100	1 000	1 000
1 000	5 400	4 600	4 000	3 600	3 200	3 000	2 700	2 600	2 500
1 600	9 000	8 000	7 200	6 600	6 100	5 700	5 400	5 300	5 600
2 500	7 300	6 600	6 000	5 700	5 200	4 900	4 700	4 600	5 100
4 000	34 500	28 800	24 400	17 000	16 600	16 400	14 800	13 400	12 400

From the example above, an inrush of 460 VA at cos φ 0·5 gives a transformer size of 250 VA

■ Checking the selection

As a precaution, make the following checks on each of your devices :

- first calculate the sum of the steady state power for the coils and the LEDs powered at the same time
- then apply a coefficient : use either our hypothetical figure of 80% of devices at steady state power, or the actual calculation for your equipment
- the power of the chosen transformer shall be greater than or equal to the result of the calculation

* LED = Light Emitting Diode

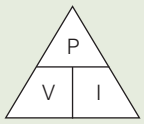
■ General information

Transformers take around 25 times the load at switch on

VA ÷ V = current in the winding
either PRIMARY or SECONDARY

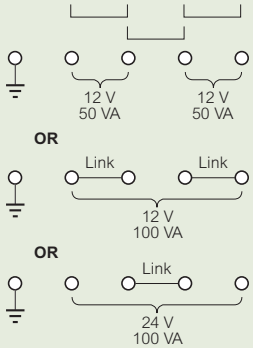
i.e. $\frac{300\ VA}{12\ V} = 25\ A \times 25 = 625\ A$

The power triangle :



■ Secondary power/voltage information

Example : compact transformer 100 VA - 12/24 V Cat. No. 6425 03



■ Identification of markings

• Changing voltage

Isolation transformer (functional insulation between primary and secondary)

Auto transformer (no insulation between primary and secondary)

• Control circuit power supply

Control transformer (functional insulation between primary and secondary)

• Electric shock protection

- Protection against direct and indirect contact by :

Safety transformers (reinforced insulation between primary and secondary, no-load voltage < 50 V)

- Protection against indirect contact by :

Circuit separation transformers (reinforced insulation between primary and secondary)

The transformer function(s) can either be defined by the equipment designer or can be imposed by installation guidelines or the equipment standard

Definitions of electrical shock :

- Electric shocks : physiopathological effect resulting from an electrical current passing through the human body
- Direct contact : persons coming into contact with live parts (connected to the mains)
- Indirect contact : persons coming into contact with grounding which is accidentally live following an insulation fault

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

protection of transformers, primary and secondary circuits

■ Protection of transformers

In accordance with the IEC/EN 61558 standard, transformers must be protected against overload and short-circuit conditions which may occur during normal operation.

The standard does not specify the type or location of the protective device : it is the manufacturer's responsibility to choose the most suitable position, either on the primary or secondary side. The rating, type and location of the protective device are to be indicated on the device identification plate.

■ Protection of the primary and secondary circuits

General

Circuits must be protected against overload and short-circuit conditions. Protection against overload is compulsory if the circuit is likely to be affected by an overload current. This protection can be installed at the supply source or end of the circuit.
Protection against a short-circuit is compulsory in all installations ; this protection has to be installed at the supply source of the circuit.

Supply circuits (transformer primary)

The transformer is a device which cannot itself generate overload. Its supply circuit therefore only requires protection against a short-circuit. When a transformer is energised, a very high inrush current (around 25 In)(1) is produced for approximately 10 ms.
When protecting the circuit, both factors must be considered.

Legrand offers three possibilities :
- type aM cartridge fuses,
- type D MCBs (with magnetic tripping set at 12 In average)
- type C MCBs (with magnetic tripping set at 7 In average)

Example : control transformer 630 VA - 230/24 V Cat. No. 0442 37

In primary 2·74 A (VA ÷ V)
I inrush at power-up 68·5 A (25 x 2·74 A)

Protection against a short-circuit can be provided by :
- type aM 6 A cartridge fuse
- type D 6 A MCBs
- type C 13 A MCBs - (16 A nearest UK)

■ Primary protection

Minimum protection rating for primary supply of the transformer :

Power (VA)	230 V single-phase			400 V single-phase			400 V three-phase		
	aM fuse	C MCB	D MCB	aM fuse	C MCB	D MCB	aM fuse	C MCB	D MCB
40	0·5	1		0·25	1				
50	1	1	1	0·5	1				
63	1	2	1	0·5	1				
100	1	3	1	1	2	1			
150	2	6	2	1	3	1			
160	2	6	2	1	3	1	1		
200	2	6	3	1	3	2			
250	2	6	3	1	6	2	1		
300	4	10	6	2	6	2			
400	4	10	6	2	6	2	2		
500	6	16	6	4	10	3			
630	6	16	6	4	10	3	2	6	2
750	8	16	10	6	10	6	2	6	3
1 000	10	20	10	6	16	6	4	10	3
1 250	10	25	16	6	20	10	4	10	6
1 500	10	32	16	10	20	10	4	16	6
1 600	10	32	16	10	20	10	6	16	6
2 000	12	40	16	10	25	10			
2 500	16	50	20	10	32	16	6	20	10
3 000	16	50	32	12	40	20			
3 500	20	50	32	16	40	20			
4 000	20	80	32	16	50	20	10	32	16
5 000	25	100	40	16	63	25	12	32	16

These values are given for information only for transformers with inrush currents of around 25 In.

(1) In = nominal rating of circuit

■ Protection of the secondary circuit

The secondary circuit must be protected against overload and short-circuit conditions. For overload, check that the protection rating chosen is lower than or equal to the transformer secondary current. For short-circuit, ensure that a short-circuit occurring at the furthest point of the circuit will trigger the protective device within 5 seconds.

Legrand offers two possibilities :
- type gG cartridge fuses
- type C MCBs (with magnetic tripping set at 7 In average)

If the transformer only supplies a single circuit, and provided the calculations show perfect compatibility, transformer protection (if on secondary) and circuit protection can be one and the same. A single protective device performs both functions (see table of transformer protective devices).

If the transformer supplies several circuits, overload and short-circuit calculations must be performed for each individual circuit. To check that the device chosen is suitable, an approximate minimum short-circuit value can be obtained using the following formula.

■ Formula for determining the secondary protection rating

Calculate the minimum short-circuit at the furthest point on the circuit :

$$\text{I c/c min.} = \frac{\text{Us}}{\left(\frac{U^2 s}{P} \times \frac{\text{U c/c \%}}{100}\right) + \frac{2\rho l}{S}}$$

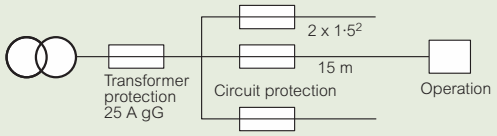
Us = transformer secondary voltage
P = transformer power
U c/c % = transformer short-circuit voltage
l = line length in m
S = line cross-section in mm²
ρ copper = 0·027 Ω mm²/m

Choose the protection rating so as to obtain a cut-off time of 5 seconds max. for a current I c/c defined above :

type gG fuse : $\text{In} \leq \frac{\text{I c/c min.}}{4}$

type C MCB: $\text{In} \leq \frac{\text{I c/c min.}}{8}$

Example : control transformer 630 VA - 230/24 V Cat. No. 0442 37



$$\text{I c/c min.} = \frac{24}{\left(\frac{24^2}{630} \times \frac{3{\cdot}3}{100}\right) + \frac{2 \times 0{\cdot}027 \times 15}{1{\cdot}5}} = 44{\cdot}42 \text{ A} = \text{Use either :}$$

$\frac{44{\cdot}42}{4} = 11{\cdot}10 \rightarrow$ gG fuse 10 A max. $\quad \frac{44{\cdot}42}{8} = 5{\cdot}55 \rightarrow$ C type MCB 5 A max.

■ Secondary protection

Ratings and types of protective devices to be used for single phase transformer protection according to VA rating and secondary voltage :

Rated power (VA) IEC/CSA	24 V			48 V			110 V			230 V		
	Fuse		Curve C MCB	Fuse		Curve C MCB	Fuse		Curve C MCB	Fuse		Curve C MCB
	A	Type		A	Type		A	Type		A	Type	
40	2	T		1	T		400 m	T		200 m	T	
50	2	T	2	1	T	1	500 m	T	0·5	200 m	T	0·2
63	3·15	T		1·6	T		630 m	T		315 m	T	
100	4	gG	4	2	gG	2	1	gG	1	0·5	gG	0·5
150	6	gG	6	4	gG	4	2	gG	2	1	gG	1
160	8	gG	8	4	gG	4	2	gG	2	1	gG	1
200	8	gG	8	4	gG	4	2	gG	2	1	gG	1
250	10	gG	10	6	gG	6	2	gG	2	1	gG	1
300	12	gG	12	6	gG	6	4	gG	4	2	gG	2
400	16	gG	16	8	gG	8	4	gG	4	2	gG	2
500	20	gG	20	10	gG	10	6	gG	6	2	gG	2
630	25	gG	25	12	gG	12	6	gG	6	3	gG	3
750		gG		16	gG	16	8	gG	8	4	gG	4
1 000	40	gG	40	20	gG	20	8	gG	8	4	gG	4
1 250		gG			gG		12	gG	12		gG	
1 500		gG			gG		16	gG	13	8	gG	8
1 600	63	gG	63	32	gG	32	16	gG	13	8	gG	8
2 000		gG			gG		20	gG	20	8	gG	8
2 500	100	gG	100	50	gG	50	20	gG	20	10	gG	10
3 000		gG			gG		32	gG	32		gG	
3 500		gG			gG		32	gG	32		gG	
4 000		gG			gG		32	gG	32	16	gG	16
5 000		gG			gG		50	gG	50		gG	

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 terminal blocks and accessories

| TERMINAL BLOCKS WITH SCREW CONNECTION | | |

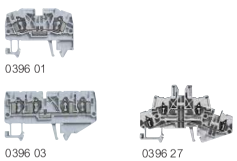
Viking 3 terminal blocks and accessories

TERMINAL BLOCKS WITH SCREW CONNECTION

			ELECTRICAL CONNECTION	TERMINAL BLOCKS Nominal capacity (mm^2)	Width (mm)	Terminal blocks Cat. Nos. Rail ⊔	Rail ⊏
 0393 71, 0393 74, 0393 78, 0393 73, 0393 81	**For protection conductor** (p. 431)	Insulated casing - 1 connection Metal foot		2·5	5	0393 70	
				4	6	0393 71	
				6	8	0393 72	0393 62
				10	10	0393 74	0393 64
				16	12	0393 76	
				35	15	0393 78	
		Insulated casing - 2 connections on 2 levels - Metal foot		4	6	0393 73	
		Plastic foot		4	6	0393 81	
				6	8	0393 82	
 0390 11, 0390 21, 0390 14	**Heavy duty** (p. 438)	Cable clamp-cable clamp			42	0390 10	
					55	0390 11	
		Stud-stud			36	0390 13	
					42	0390 14	
					55	0390 15	
		Stud-cable clamp			42	0390 17	
					55	0390 18	
		Cable clamp-stud			42	0390 20	
					55	0390 21	
 0390 32	**Heavy duty** (p. 438)	For busbars or eyelets		35	26		0390 31
				70	34		0390 32
				120	34		0390 33
				240	46		0390 34

	INSULATION End caps	INSULATION Separation and insulating barriers	PROTECTION Safety screens single pole	PROTECTION Safety screens multipole	PROTECTION Safety screens cut to length	INTERCONNECTION Insulated bridging combs	INTERCONNECTION Bridging bars	INTERCONNECTION Screening continuity strips
	0393 87							
	0393 87							
	built-in							
	built-in							
	built-in							
	built-in							
	0393 84							
	0393 87	0394 66	0394 92		0394 80	0394 20	0394 11	0394 05
	0393 88	0394 66	0394 93		0394 80	0394 21	0394 12	0394 05
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
	built-in	built-in						
		0394 77		0394 88				
		0394 78		0394 86				
		0394 78		0394 86				
		0394 78		0394 89 and 0394 86				

TERMINAL BLOCKS WITH SPRING CONNECTION

			ELECTRICAL CONNECTION	TERMINAL BLOCKS Nominal capacity (mm^2)	Width (mm)	Terminal blocks Cat. Nos.
 0396 01, 0396 03, 0396 27	**Standard** (p. 436)	1 connection 1 entry - 1 exit		2·5	5	0396 01
				4	6	0396 04
		1 connection - 1 entry - 2 exits		2·5	5	0396 02
		1 connection - 1 entry - 3 exits		2·5	5	0396 03
		2 connections 2 x (1 entry - 1 exit) on 2 levels		1·5	5	0396 27
				4	6	0396 36
 0396 21, 0396 25	**For protection conductor** (p. 436)	1 connection 1 entry - 1 exit		2·5	5	0396 21
				4	6	0396 24
				6	8	0396 25

	INSULATION End caps	INSULATION Separation and insulating barriers	INTERCONNECTION Insulated bridging combs 2 pole	INTERCONNECTION Insulated bridging combs 3 pole	INTERCONNECTION Insulated bridging combs 10 pole
	0396 31	0396 49	0396 58	0396 59	0396 60
	0396 31	0396 49	0396 61	0396 62	0396 63
	0396 32	0396 50	0396 58	0396 59	0396 60
	0396 33	0396 51	0396 58	0396 59	0396 60
	0396 48	0396 53	0396 58	0396 59	0396 60
	0396 85	0396 88	0396 61	0396 62	0396 63
	0396 43	0396 49			
	0396 43	0396 49			
	built-in				

ACCESSORIES

MARKING



CAB 3 (p. 437)



Marker sheets (p. 437)

MARKING ACCESSORIES

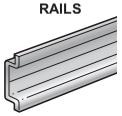


Label holder for end stops Cat. Nos. 0394 02/03 (p. 432)



Pen (p. 437)

RAILS



Zinc-bichromate treated rails (p. 432)

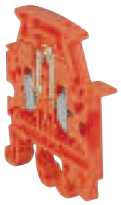
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 terminal blocks
with screw connection

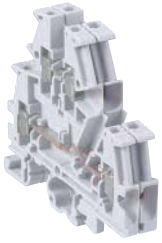

0390 61 + 0390 60


0390 66 + 0390 68


0390 82


0393 38


0393 01


0390 77 + 3090 78


0390 00 + 0390 01


0390 84


0390 88

Selection chart (p. 426-427)
Technical information and dimensions (p. 434-435)
ATEX approval (Ex) *(p. 435)*

For symmetrical rail 15 mm depth and symmetrical rail EN 60715 ⊔
7·5 mm and 15 mm depth
(Cat. No. 0390 51 for symmetrical rail ⊔ only - unique)
For asymmetrical rail EN 60715 ⊏
Connection with or without ferrule
Insulation material : Polyamide –30 °C to +100 °C (+110 °C for V.O. - UL94)

Standard

Insulating material : polyamide –30 to +100 °C

1 connection : 1 entry - 1 exit

Pack	Cat. Nos.	Nominal capacity (mm²)	Capacity (mm²) Rigid cable	Capacity (mm²) Flexible cable	Width (mm)
60/1 200	0390 60	2·5	0·25 to 4	0·25 to 2·5	5
50/1 000	0390 61	4	0·25 to 6	0·25 to 4	6
40/800	0390 62	6	0·5 to 10	0·25 to 6	8
30/600	0390 64	10	1·5 to 16	2·5 to 10	10
20/300	0390 66	16	1·5 to 25	4 to 16	12
20/180	0390 68	35	2·5 to 50	4 to 35	15
10/50	0390 70	70	25 to 95	16 to 70	22

1 connection : 1 entry - 2 exits

50/750	0390 82	4	0·25 to 6	0·25 to 4	6

2 connections on 2 levels : 2 x (1 entry - 1 exit)

60/600	0390 77	2·5	0·25 to 4	0·25 to 2·5	5
60/600	0390 78	4	0·25 to 6	0·25 to 4	6

3 connections on 3 levels : 3 x (1 entry - 1 exit)

50/500	0390 51	2·5	0·25 to 4	0·25 to 2·5	5

V.O. - UL 94 temperature rated

Insulating material : grey polyamide –30 to +110 °C

1 connection : 1 entry - 1 exit

60/1 200	0390 00	2·5	0·25 to 4	0·25 to 2·5	5
50/1 000	0390 01	4	0·25 to 6	0·25 to 4	6
40/800	0390 02	6	0·5 to 10	0·25 to 6	8

Functional terminals

Insulating material : polyamide –30 to +100 °C

With link between levels : 1 entry - 3 exits

1 incoming - 3 outgoing with equal rating

60/600	0390 76	4	0·25 to 6	0·25 to 4	6

Diode carrier terminal : 2 x (1 entry - 1 exit)

Diode characteristics :
- 1 N 4007 type 1 A
- thermal rating ⎓ 1·15 A
- reverse voltage peak 1 000 V
- reverse current 5 µA at 25 °C

60/600	0390 80	4	0·25 to 6	0·25 to 4	6

Mostly for identification of (Exi) intrinsically safe and/or neutral circuits - coloured blue

Insulating material : polyamide –30 to +100 °C

1 connection : 1 entry - 1 exit

Pack	Cat. Nos.	Nominal capacity (mm²)	Capacity (mm²) Rigid cable	Capacity (mm²) Flexible cable	Width (mm)
60/1 200	0393 00	2·5	0·25 to 4	0·25 to 2·5	5
50/1 000	0393 01	4	0·25 to 6	0·25 to 4	6
40/800	0393 02	6	0·5 to 10	0·25 to 6	8
20/180	0393 04	16	1·5 to 25	4 to 16	12

2 connections on 2 levels : 2 x (1 entry - 1 exit)

60/600	0393 07	4	0·25 to 6	0·25 to 4	6

For circuit not broken by the general isolating device - coloured orange

Insulating material : polyamide –30 to +100 °C

1 connection : 1 entry - 1 exit

50/1 000	0393 39	4	0·25 to 6	0·25 to 4	6

1 connection isolating : 1 entry - 1 exit

10/500	0393 38	4	0·25 to 6	0·25 to 4	6

Isolator and fuse

Insulating material : polyamide –30 to +100 °C

1 connection : 1 entry - 1 exit

Blade type

10/500	0390 84	4	0·25 to 6	0·25 to 4	6

Neutral equipped

20/400	0390 85	4	0·25 to 6	0·25 to 4	8

For cartridge fuse 5 x 20 mm (p. 383) and 5 x 25 mm with grip

20/400	0390 86	4	0·25 to 6	0·25 to 4	8

2 connections on 2 levels : 2 x (1 entry - 1 exit)

Isolating : top level
For cartridge fuse 5 x 20 mm (p. 383) and 5 x 25 mm

20/400	0390 88	4	0·25 to 6	0·25 to 4	8

Accessories (p. 432-433)
Marking systems (p. 437)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

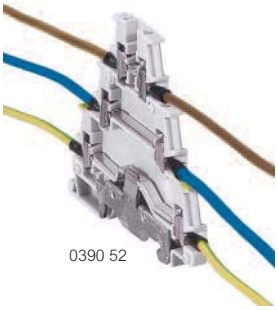
Viking 3 terminal blocks
with screw connection (continued)


0390 51


0393 82


0393 73


0393 74


0390 52


0393 71 on rail ⊓


0393 62 on rail ⊏

Selection chart (p. 426-427)
Technical information and dimensions (p. 434-435)
ATEX approval (p. 435)

For asymmetrical rail EN 60715 ⊏, symmetrical rail 15 mm depth and symmetrical rail EN 60715 ⊓ 7·5 mm and 15 mm depth
(Cat. Nos. 0390 51/52 for symmetrical rail ⊓ only - unique)
Cat. Nos. 0393 70/74/76 for symmetrical rail 15 mm depth
For rail ⊏ up to 35 mm², for rail ⊓ 7·5 mm depth up to 16 mm²
Connection with or without ferrule
Insulation material : Polyamide –30 °C to +100 °C

For actuators and sensors - 3 levels

Allows the connection of two or three-wire sensors or actuators
Power supply common terminals are linked by bridging combs (coloured blue or brown for identification)

Supply feed
3 levels of single junctions, used to supply power to combs of sensor or actuator blocks

Pack	Cat. Nos.				
50/500	0390 51	2·5	0·25 to 4	0·25 to 2·5	5

Actuator (metal foot) or LNE connection
Top level : single connection on both sides
Middle level : connection of common on one side using comb or single connection on both sides
Lower level : connection of protection conductor on both sides or with comb to one side and equipotential link with rail by metal base

Pack	Cat. Nos.				
50/500	0390 52	2·5	0·25 to 2·5	0·25 to 2·5	5

For protection conductor with plastic foot

Terminal for protection conductor without the use of rail as an equipotential contact; allows the connection of protection conductors in insulating conditions applicable for class II according to standards IEC 60439-1 and EN 60204

Pack	Cat. Nos.				
50/1 000	0393 81	4	0·25 to 6	0·25 to 4	6
40/800	0393 82	6	0·5 to 10	0·25 to 6	8

For protection conductor with metal foot

The metal foot on the terminal for protection conductor ensures the electrical and mechanical connection with the rail, allowing the rail to be used as an equipotential contact
Connection, interconnection and distribution of protection conductors achieved according to standards IEC 60439-1 and EN 60204

1 connection

Pack	Cat. Nos. rail ⊓	Cat. Nos. rail ⊏	Nominal capacity (mm²)	Capacity (mm²) Rigid cable	Capacity (mm²) Flexible cable	Width (mm)
20/600	0393 70		2·5	0·25 to 4	0·25 to 2·5	5
25/500	0393 71		4	0·25 to 6	0·25 to 4	6
20/400	0393 72	0393 62	6	0·5 to 10	0·25 to 6	8
10/300	0393 74	0393 64	10	1·5 to 16	2·50 to 10	10
10/100	0393 76		16	1·5 to 25	4 to 16	12
10/100	0393 78		35	2·5 to 50	4 to 35	15

2 connections on 2 levels

Pack	Cat. Nos.				
20/400	0393 73	4	0·25 to 6	0·25 to 4	6

Accessories (p. 432-433)
Marking systems (p. 437)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

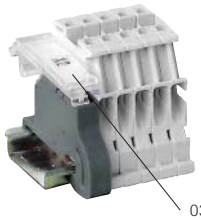
Viking 3 accessories
for screw connection terminal blocks

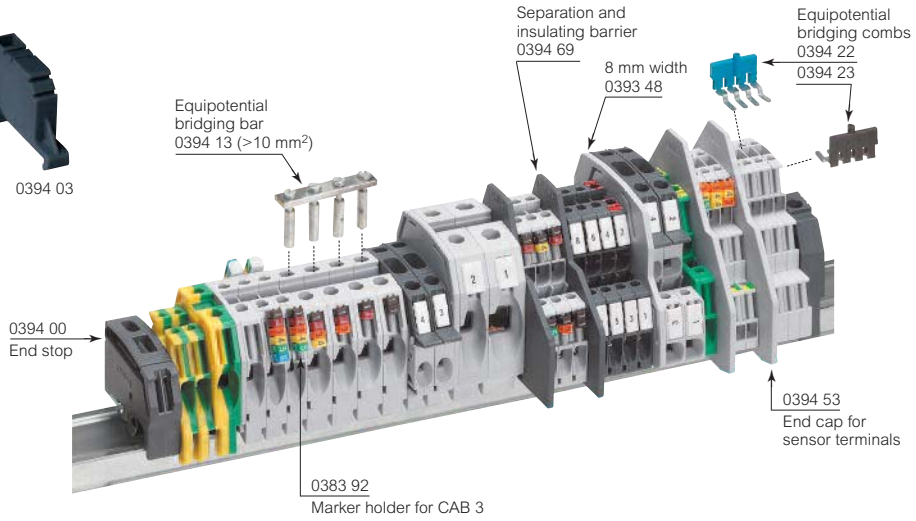

0394 00
TRI-RAIL


0394 00 with
blank markers and CAB 3


0394 02


0394 03

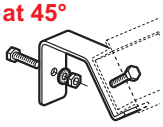

0395 97 label in 0395 96 label holder
mounted on to 0394 03 end stop



Selection charts (p. 426-429)

Pack	Cat. Nos.	Zinc treated rails
		2 m length
10	0374 02	Asymmetrical rail EN 60715 ⊏⊐
10	0374 04	Symmetrical rail EN 60715 ⊔ 7·5 mm depth
10	0374 07	Symmetrical rail ⊔ 15 mm depth

		Mounting bracket for rail fixing at 45°
10/100	0394 49	2 brackets with four 6 mm dia. bolts, nuts and washers



		End stops
		12 mm width tri-rail
20/500	0394 00	For rail EN 60715 ⊏⊐ asymmetrical, ⊔ 7·5 mm and ⊔ 15 mm depth symmetrical Fix to sides of rail Top section of end stop can be removed to enable marking using Duplix label holder Cat. Nos. 0384 98/ 0249 01 (see below)
		8 mm width
10/500	0394 02	For rail EN 60715 ⊏⊐ asymmetrical Fix to bottom of rail
20/500	0394 03	For rail EN 60715 ⊔ 7·5 mm and ⊔ 15 mm depth symmetrical Fix to sides of rail

		Identification
		For identifying groups of terminal blocks
20/600	0395 96	Variable angle Transparent polycarbonate Accepts 32 x 9·5 mm label supplied with the product Will also accept label Cat. No. 0395 97 below Fitted by sliding sideways on to 8 mm width end stops Cat Nos. 0394 02/03
		Label for engraving
20/2 000	0395 97	For label holder Cat. No. 0395 96 Flexible ABS White background, black engraving Dimensions : 28 x 9·5 mm
		Plain legend plates for engraving
20/2 000	0249 01	Black background/white engraving
		Black felt tip pen
10/500	0395 98	Indelible for marking





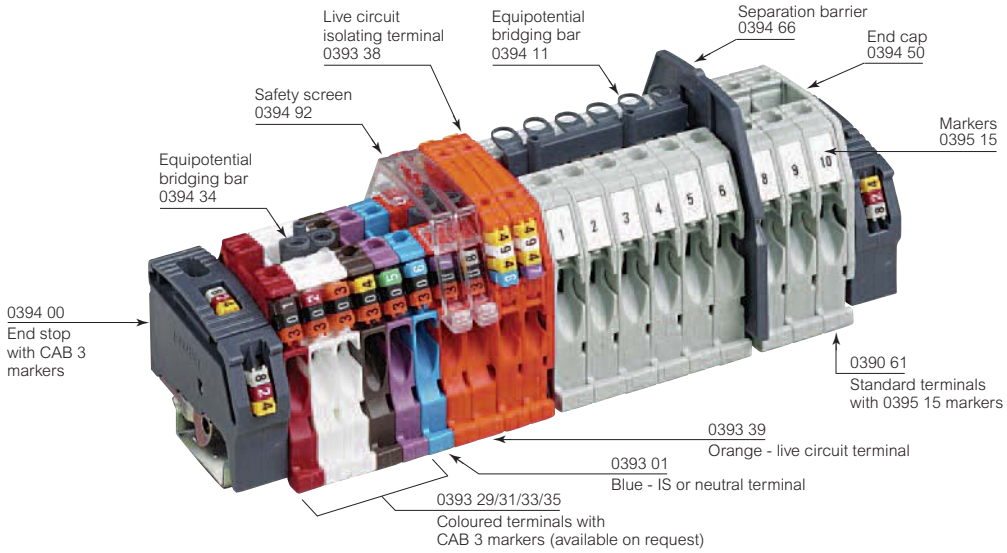
Pack	Cat. Nos. 1 connection	Cat. Nos. 2 connections	End caps
			For standard and functional terminals :
			Width (mm) | Thickness (mm)
100/2 000	0394 50		5-6 | 2
20/1 000		0394 55	5-6 | 2
20/1 000	0394 51		8-10 | 2
20/1 000	0394 52		12-15 | 2·5
			For 1 single connection : 1 entry - 2 exits
10/500	0394 82		6 | 2
			Blue for intrinsic safety/ neutral terminals :
20/1 000	0393 09	0393 15[1]	5-6 | 2
20/1 000	0393 11		8-10 | 2
20/500	0393 13		12-15 | 2·5
			Grey for V.O. - UL 94 temperature rated terminals:
20/1 000	0394 73		5-6 | 2
20/1 000	0394 74		8-10 | 2
			Orange for terminals with circuit not broken :
20/1 000	0393 45		Isolating (Cat. No. 0393 38)
20/1 000	0393 46		Width 5-6 (Cat. No. 0393 39)
			For isolator terminals :
20/400		0393 48	Width 8 (Cat. No. 0390 88)
20/1 000	0393 49		Fused 5 x 20 mm and neutral equipped (Cat. Nos. 0390 85/86/87) For Cat. No. 0390 84 use end cap 0394 51
			For terminals for protection conductor :
20/1 000		0393 84	Width 6 (Cat. No. 0393 73)
20/1 000	0393 87		Width 5-6 (Cat. Nos. 0393 70/71/81)
20/1 000	0393 88		Width 8 (Cat. No. 0393 82)
		3 levels	**End cap for sensor terminals**
20/200		0394 53	Width 5

			Separation and insulating barriers
			For terminals with width (mm) :
10/900	0394 66		5-6-8-10 (and isolator terminal with width 6 mm)
10/500		0394 69	5-6
10/500	0394 67		12-15 (and isolator terminal with width 8 mm)

(1) Pack 20/500

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 accessories
for screw connection terminal blocks (continued)



Interconnection accessories

Pack	Cat. Nos.	
		Equipotential insulated bridging combs(1)
		Allow linking of 12 terminals with screw connection (with test provision) For external side mounting
		Width (mm) | Capacity
10/1 000	0394 31	5 | 2·5 mm²
10/1 000	0394 20	6 | 4 mm²
10/500	0394 21(2)	8 | 6 mm²
		Allow linking of 2 terminals with screw connection (with test provision) :
10/1 000	0394 40	5 | 2·5 mm²
10/1 000	0394 43	6 | 4 mm²
		Allow linking of 3 terminals with screw connection (with test provision) :
10/1 000	0394 41	5 | 2·5 mm²
10/1 000	0394 44	6 | 4 mm²
		For use with Cat. Nos. 0390 51/52 terminals (p. 431) Allow linking of 12 x 3 level terminals with screw connection (without test provision) For external mounting on terminals
		Width (mm) | Colour
10/1 000	0394 22	5 | Blue
10/1 000	0394 23	5 | Brown
10/1 000	0394 26	5 | Green
		Equipotential insulated bridging bars(1)
		Divisible and insulated, with integral test sockets and identification rings For 12 single terminal blocks with width (mm) :
10/500	0394 10	5
10/500	0394 11	6
10/500	0394 12	8
		For 2 single terminal blocks with width (mm) :
10/1 000	0394 34	5
10/1 000	0394 37	6
		For 3 single terminal blocks with width (mm) :
10/1 000	0394 35	5
10/1 000	0394 38	6
		Pre-assemble bare
		Long sleeve spacers - for consecutive or alternate linking Upto 12 terminal blocks
10/100	0394 13	10
10/100	0394 14	12
10/100	0394 15	15
		Short sleeve spacers - for consecutive linking only Upto 12 terminal blocks
10/100	0394 16	10
10/100	0394 17	12
10/100	0394 18	15
		End insulation piece
		Provides protection from contact with exposed end of Cat. Nos. 0394 20/21/31 or 0394 10/11/12
50/1 000	0394 95	Width 5 and 6 mm for supply busbar

(1) Use end insulation if cutting strip
(2) Except Cat. No. 0390 88

Protection accessories

Pack	Cat. Nos.	
		Single pole safety screens For all single terminals :
10/1 000	0394 92	Width 5-6
10/500	0394 93	Width 8-10
10/500	0394 94	Width 12-15
		Protective cover for cutting to length For mounting on insulating barriers Length 1 m
10	0394 80	Width 5-6-8-10 (for barrier Cat. No. 0394 66)
10	0394 81	Width 12-15 (for barrier Cat. No. 0394 67)

Connection accessory

Pack	Cat. Nos.	
		Screening continuity bar Connection by 2·8 x 0·8 mm clips or by soldering Capacity 1 mm²
50/1 000	0394 05	For one connection terminals width 5-6-8-10 mm and isolating terminal width 6 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

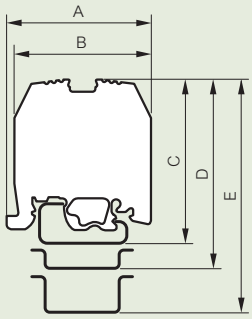
Viking 3 terminal blocks
with screw connection

■ Technical information : V.O. - UL 94 and standard

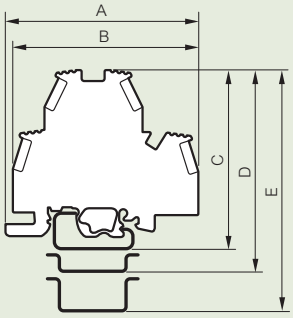
Cat. Nos.	Voltage (V)			Rating (A)			Capacity		
	IEC	CSA	UL	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0390 00	800	600	600	24	25	20	2·5	12	12
0390 01	800	600	600	32	30	30	4	10	10
0390 02	800	600	600	41	40	50	6	8	8
0390 60	800	600	600	24	25	20	2·5	12	12
0390 61	800	600	600	32	30	30	4	10	10
0390 62	800	600	600	41	40	50	6	8	8
0390 64	800	600	600	57	65	60	10	6	6
0390 66	800	600	600	76	90	85	16	4	4
0390 68	800	600	600	125	120	125	35	0	0
0390 70	1 000	600	600	192	210	200	70	000	000
0390 77	500	300	300	24	25	20	2·5	12	12
0390 78	500	300	300	32	30	30	4	10	10
0390 82	500	–	–	32	–	–	4	–	–

CSA n° 22-2, n° 158 - UL 1059 - IEC 60947-7-1
Resistance to fire : 960 °C, V2 according to UL 94 for standard
960 °C according to IEC 60695-2-1, IEC 60695-2-11 for V.O. - UL 94

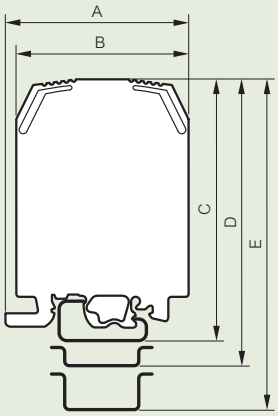
■ Dimensions



Cat. Nos. 0390 00/01/02/60/61/62/ 64/66/68/82



Cat. Nos. 0390 77/78



Cat. No. 0390 70

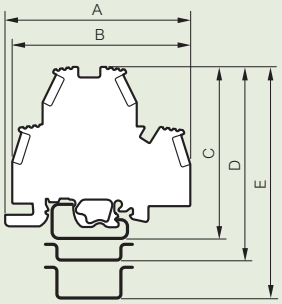
Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0390 00	48·4	39·1	49·4	45·4	52·9
0390 01	48·4	39·1	49·4	45·4	52·9
0390 02	48·4	46	55	51	58·5
0390 60	48·4	39·1	49·4	45·4	52·9
0390 61	48·4	39·1	49·4	45·4	52·9
0390 62	48·4	46	55	51	58·5
0390 64	48·4	46	55	51	58·5
0390 66	57·1	54·5	67	63	70·5
0390 68	57·1	54·5	67	63	70·5
0390 70	71·6	66	99	95	102·5
0390 77	71·6	69	66·7	62·7	70·2
0390 78	71·6	69	66·7	62·7	70·2
0390 82	48·2	46	55	51	50·5

■ Technical information : Functional terminals

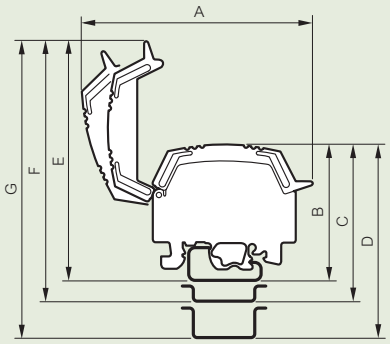
Cat. Nos.		Voltage (V)			Rating (A)			Capacity		
		IEC	CSA	UL	IEC	CSA	UL	IEC (mm²)	CSA (AWG)	UL (AWG)
0390 76		500	300	300	32	30	30	4	10	10
0390 80		500	300	300	1	1	1	4	10	10
0390 84		500	300	300	6	6	6	4	10	10
0390 85		500	300	300	10	10	10	4	10	10
0390 86		500	300	300	6·3	6·3	6·3	4	10	10
0390 88	Upper level	500	–	300	6·3	6·3	6·3	4	10	10
	Lower level	500	–	300	32	30	30	4	10	10

CSA n° 22-2, n° 158 - UL 1059 - IEC 60947-7-1, EN 60947-7-1
Resistance to fire : 960 °C, V2 according to UL 94

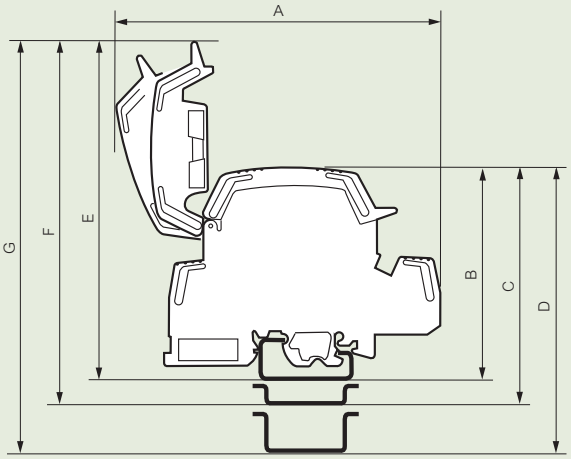
■ Dimensions



Cat. Nos. 0390 76/80



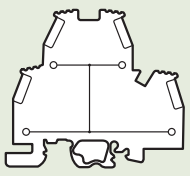
Cat. Nos. 0390 84/85/86

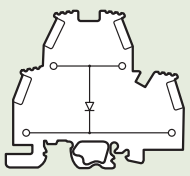


Cat. No. 0390 88

Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
0390 76	71·6	69	66·7	62·7	70·2	–	–
0390 80	71·6	69	66·7	62·7	70·2	–	–
0390 84	76·5	55	51	58·5	89·8	85·8	93·3
0390 85	93	55	51	58·5	97	93	100·5
0390 86	93	55	51	58·5	97	93	100·5
0390 88	106	73·5	69·5	77	115·5	111·5	119

■ Functional diagrams


Cat. No. 0390 76


Cat. No. 0390 80

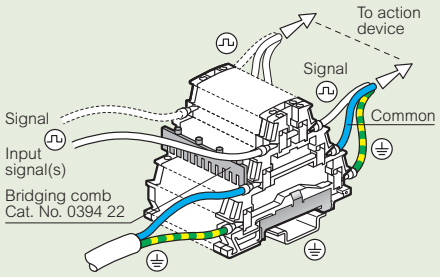
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

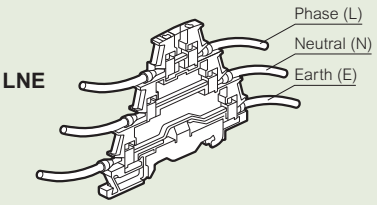
■ Technical information : for identification of neutral or intrinsically safe circuits (Exi), for circuit not broken by the general isolating device, for actuators and sensors

Cat. Nos.	Voltage (V)			Rating (A)			Capacity		
	IEC	CSA	UL	IEC	CSA	UL	IEC (mm^2)	CSA (AWG)	UL (AWG)
0393 00	800	600	600	24	25	20	2·5	12	12
0393 01	800	600	600	32	30	30	4	10	10
0393 02	800	600	600	41	40	50	6	8	8
0393 04	800	600	600	76	90	85	16	4	4
0393 07	500	300	300	32	30	30	4	10	10
0393 38	500	300	300	6	6	6	4	10	10
0393 39	800	600	600	32	30	30	4	10	10
0390 51	400	300	300	24	20	20	2·5	12	12
0390 52	400	300	300	24	18		2·5	14	12
0390 53	400	300	300	24	18	20	2·5	14	12

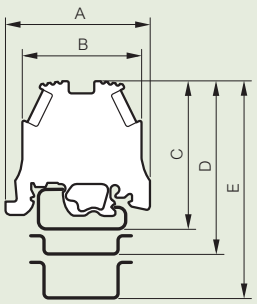
CSA n° 22-2, n° 158 - UL 1059 - IEC 60947-7-1
Resistance to fire : 960 °C, V2 according to UL 94

■ Possible connections Cat. No. 0390 52

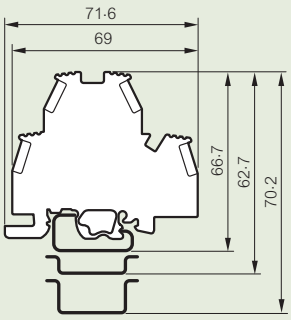




■ Dimensions

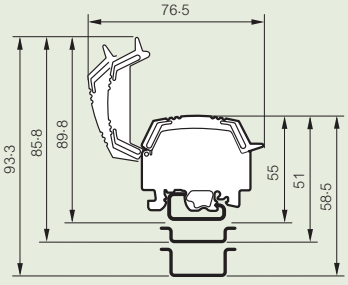


Cat. Nos. 0393 00/01/02/04/39

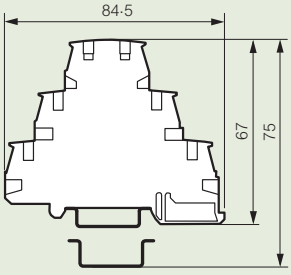


Cat. No. 0393 07

Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0393 00/01/39	48·4	39·1	49·4	45·4	52·9
0393 02	48·4	46	55	51	58·5
0393 04	57·1	54·5	67	63	70·5



Cat. No. 0393 38



Cat. Nos. 0390 51/52

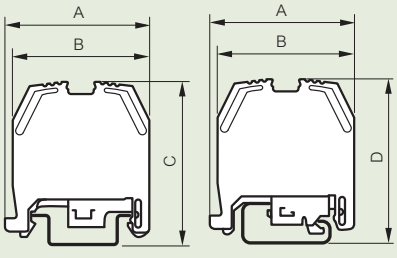
■ Technical information : for protection conductor

Cat. Nos.	Capacity		
	IEC (mm^2)	CSA (AWG)	UL (AWG)
0393 70	2·5	12	12
0393 71	4	10	10
0393 72/62	6	8	8
0393 73	4	10	10
0393 74/64	10	6	6
0393 76	16	4	4
0393 78	35	0	2
0393 81	4	10	10
0393 82	6	8	8

These terminals provide excellent earth continuity between the PEN protection conductors and the rail Rails should be connected together using these terminals to provide equipotential bonding in accordance with the standard

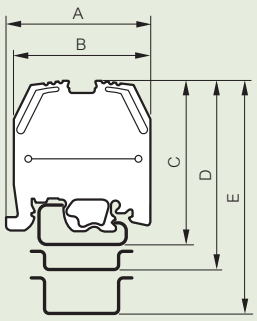
CSA n° 22-2, n° 158 - UL 1059 - IEC 60947-7-2
Resistance to fire : 960 °C, V2 according to UL 94

■ Dimensions



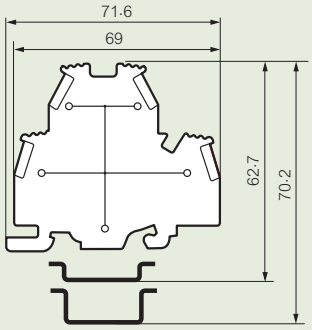
Cat. Nos. 0393 70 to 78 Cat. Nos. 0393 62/64

Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
0393 70	48·6	39·1	52·9	49·4
0393 71	48·6	39·1	52·9	49·4
0393 72/62	48·6	46	58·5	55
0393 74/64	48·6	46	58·5	55
0393 76	54·5	–	70·5	67
0393 78	54·5	–	70·5	67



Cat. Nos. 0393 81/82

Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
0393 81	48·4	39·1	49·4	45·4	52·9
0393 82	48·4	46	55	51	58·5



Cat. No. 0393 73

ATEX approval : LCIE 02 ATEX 0039 U-0081 Ⓔx II 2 or 1 G Ex e/i II
Viking 3 terminal blocks have received a type examination number **LCIE 02 ATEX 0039 U** and a quality system evaluation notification
The last letter **U** indicates this is a PARTIAL CERTIFICATION for a COMPONENT that may be used as a basis for certification of a final equipment or protective system incorporating this component
Marking Ⓔx **II 2 or 1 G Ex e/i II**

Indicates that these components can be incorporated inside :
- Equipment or protective systems category 2, for use in zone 1 in accordance with protection type “e” (increased safety) intended for gas atmosphere with explosion hazard in surface industries

or
- Equipment or protective systems category 1, for use in zone 0 in accordance with protection type “i” (intrinsic safety) intended for gas atmosphere with explosion hazard in surface industries

Products covered by this certificate are Cat. Nos. 0390 00/01/02/31/32/33/34/51/52/60/61/62/64/66/68/70/76/77 and 78
0393 00/01/02/04/07/39/62/64/70/71/72/73/74/76/78/81 and 82

The main characteristics are the following :
Temperature for application : –30 °C to +55 °C
Material maximum temperature : 85 °C and 95 °C for V0
Working voltage :

Designation	Working voltage according to EN 60079-7
1 level terminal blocks	500 V
2 and 3 level terminal blocks	250 V
Heavy duty terminal blocks	660 V

Rated current :

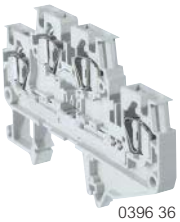
Conductor cross-section in mm^2	2·5	4	6	10	16	25	35	70	95	120	150	240
Rated current in A	18	23	30	42	57	75	93	145	200	220	260	380

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 terminal blocks
with spring connection


0396 01


0396 08

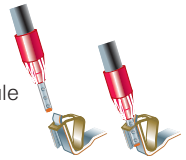

0396 36


0396 21


0396 25

Selection chart (p. 428-429)
Technical information and dimensions (opposite)

Insulating material : polyamide 6/6
For symmetrical rail 15 mm depth and symmetrical rail EN 60715
7·5 mm and 15 mm depth
Instantaneous screwless connection
A durable, high quality connection is assured through the constant pressure of the rustless stainless steel spring on the conductor, connection with or without ferrule



Pack	Cat. Nos.	Standard
		1 connection : 1 entry - 1 exit
		Nominal capacity (mm^2) | Width (mm)
50	0396 01	2·5 | 5
50	0396 04	4 | 6
		1 connection : 1 entry - 2 exits
50	0396 02	2·5 | 5
		1 connection : 1 entry - 3 exits
50	0396 03	2·5 | 5
		2 connections on 2 levels : 2 x (1 entry - 1 exit)
60	0396 27	1·5 | 5
20	0396 36	4 | 6

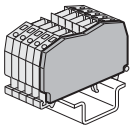
For protection conductor with metal foot

Ensures the electrical and mechanical connection with the rail allowing the rail to be used as an equipotential contact
Connection, interconnection and distribution of protection conductors achieved according to the standards IEC 60439-1 and EN 60204

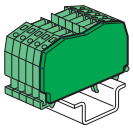
1 connection : 1 entry - 1 exit

		Nominal capacity (mm^2) | Width (mm)
20	0396 21	2·5 | 5
20	0396 24	4 | 6
20	0396 25(1)	6 | 8

End caps

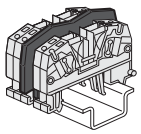


	Width 5	Width 6	For standard terminals
10	0396 31	0396 31	1 entry - 1 exit
10	0396 32		1 entry - 2 exits
10	0396 33		1 entry - 3 exits
10	0396 48	0396 85	2 x (1 entry - 1 exit) - on 2 levels



			For terminals for protection conductor
10	0396 43	0396 43	1 entry - 1 exit

Insulating barriers



	Width 5	Width 6
10	0396 49	0396 49
10	0396 50	

1 entry - 1 exit
1 entry - 2 exits

Equipotential bridging combs



For connecting terminal blocks of capacity : 1·5 and 2·5 mm^2

	Width 5
10	0396 58
10	0396 59
20	0396 60

2 poles
3 poles
10 poles

4 mm^2

	Width 6
10	0396 61
10	0396 62
20	0396 63

2 poles
3 poles
10 poles

Starfix ferrules (p. 447)

(1) Built-in end plate

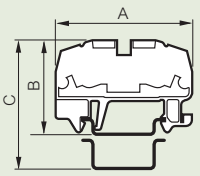
Viking 3 terminal blocks
with spring connection

■ Technical information

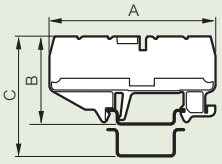
Cat. Nos.	Voltage (V)			Rating (A)			Capacity			
	IEC	CSA	UL	IEC	CSA	UL	IEC (mm^2)	CSA (AWG)	UL (AWG)	
0396 01	800	600	600	24	25	30	2·5	12	12	- CSA n° 22-2, n° 158 - IEC 60947-7-1 - EN 60947-7-1 - UL 1059
0396 02	800	600	600	24	25	30	2·5	12	12	
0396 03	800	600	600	24	25	30	2·5	12	12	
0396 04	800	600	600	32	35	40	4	10	10	
0396 21	–	–	–	–	–	–	2·5	12	12	- CSA n° 22-2, n° 158 - IEC 60947-7-2 - EN 60947-7-2
0396 24	–	–	–	–	–	–	4	10	10	
0396 25	NA	NA	NA	–	–	–	6	8	8	
0396 27	400	–	–	17·5	–	–	1·5	–	–	
0396 36	800	–	–	–	–	–	4	–	–	

These terminals provide excellent earth continuity between the PEN protection conductors and the rail
Rails should be connected together using these terminals to provide equipotential bonding in accordance with the standard
Resistance to fire : 960 °C conforms to IEC EN 60695-2-11, V2 according to UL 94

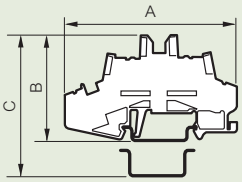
■ Dimensions



Cat. Nos. 0396 01/02/04/ 21/24/25



Cat. Nos. 0396 03



Cat. Nos. 0396 27/36

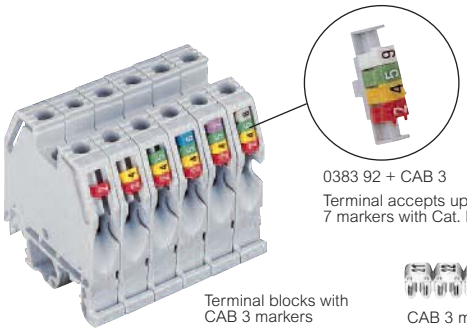
Cat. Nos.	A (mm)	B (mm)	C (mm)
0396 01	57	42·3	49·8
0396 02	60·5	42·3	49·8
0396 03	76·5	42·3	49·8
0396 04	57	42·3	49·8
0396 21	57	42·3	49·8
0396 24	57	42·3	49·8
0396 25	61	46·4	53·9
0396 27	83·6	51·1	58·6
0396 36	87·5	53	60·5

Cable capacity

	Nominal	Rigid	Flexible
Blocks 2·5 mm^2 width 5	2·5 mm^2	0·5 - 4 mm^2	0·13 - 2·5 mm^2
Blocks 4 mm^2 width 6	4 mm^2	0·5 - 6 mm^2	0·13 - 4 mm^2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 CAB 3® marking system
for cables and Viking 3 terminal blocks
section 0·15 to 0·5 mm² and 0·5 to 1·5 mm²



0383 92 + CAB 3

Terminal accepts up to 4 markers or 7 markers with Cat. No. 0383 92

Terminal blocks with CAB 3 markers



CAB 3 markers 01 to 100 (p. 450)

Numbers

International colour code

Pack(1)	Cat. Nos. 0·15 to 0·5²	Cat. Nos. 0·5 to 1·5²		
1000	1200	0381 00	0382 10	0 Black
1000	1200	0381 01	0382 11	1 Brown
1000	1200	0381 02	0382 12	2 Red
1000	1200	0381 03	0382 13	3 Orange
1000	1200	0381 04	0382 14	4 Yellow
1000	1200	0381 05	0382 15	5 Green
1000	1200	0381 06	0382 16	6 Blue
1000	1200	0381 07	0382 17	7 Violet
1000	1200	0381 08	0382 18	8 Grey
1000	1200	0381 09	0382 19	9 White



0381 06



0382 12

Black marking on white background

Pack(1)	Cat. Nos. 1·5 to 2·5²	
240	0381 60	01 to 20
240	0381 61	21 to 40
240	0381 62	41 to 60
240	0381 63	61 to 80
240	0381 64	81 to 100
240	0381 65	Blank



0381 64

Letters

Black marking on yellow background

Pack(1)	Cat. Nos.		
300	0381 10	0383 00	A
300	0381 11	0383 01	B
300	0381 12	0383 02	C
300	0381 13	0383 03	D
300	0381 14	0383 04	E
300	0381 15	0383 05	F
300	0381 16	0383 06	G
300	0381 17	0383 07	H
300	0381 18	0383 08	I
300	0381 19	0383 09	J
300	0381 20	0383 10	K
300	0381 21	0383 11	L
300	0381 22	0383 12	M
300	0381 23	0383 13	N
300	0381 24	0383 14	O
300	0381 25	0383 15	P
300	0381 26	0383 16	Q
300	0381 27	0383 17	R
300	0381 28	0383 18	S
300	0381 29	0383 19	T
300	0381 30	0383 20	U
300	0381 31	0383 21	V
300	0381 32	0383 22	W
300	0381 33	0383 23	X
300	0381 34	0383 24	Y
300	0381 35	0383 25	Z



0381 28



0383 17

Conventional symbols

Black marking on yellow background

Pack(1)	Cat. Nos.		
300	0381 40	0382 70	/
300	0381 41	0382 71	•
300	0381 42	0382 72	+
300	0381 43	0382 73	–
300	0381 44	0382 74	∿
300	0381 45	0382 75	⎓
300	0381 46	0382 76	⏚



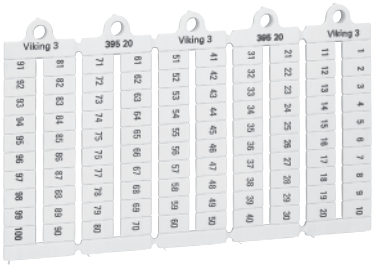
0381 43



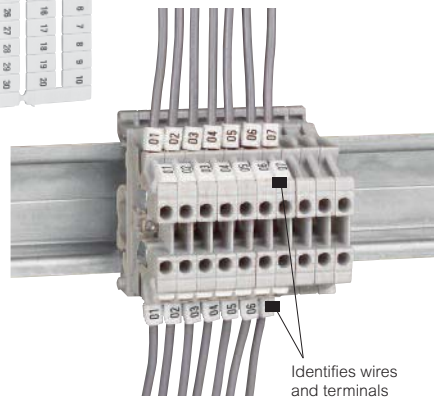
0382 72

(1) Up to 0·5mm² : In strips of 25
From 0·5mm² to 2·5mm² : In strips of 30
Above 2·5mm² : In strips of 20

Viking 3 marking system
for terminal blocks



0395 20



Identifies wires and terminals

Blank markers

Pack(1)	Cat. Nos.	100 snap-off markers Marker width (mm)
1 000	0395 00	5
1 000	0395 01	6
1 000	0395 02	8

Numbers

Pack(1)	Cat. Nos. Format(2) Horizontal	
		Marker width 5 mm
1 000	0395 05	From 1 to 10 (10 times)
1 000	0395 06	From 11 to 20 (10 times)
1 000	0395 09	From 1 to 50 (2 times)
1 000	0395 10	From 1 to 100
		Marker width 6 mm
1 000	0395 15	From 1 to 10 (10 times)
1 000	0395 16	From 11 to 20 (10 times)
1 000	0395 19	From 1 to 50 (2 times)
1 000	0395 20	From 1 to 100
1 000	0395 21	From 101 to 200
1 000	0395 22	From 201 to 300
1 000	0395 23	From 301 to 400

Black felt tip pen

10	0395 98	Indelible for marking



Marker holder for terminals

		Clips on to Viking 3 terminal blocks and holds :
100	0383 92	7 markers from 0·15 mm² to 0·5 mm² 6 markers from 0·5 mm² to 1·5 mm²

(1) Pack of 1 000 markers comprises 10 sheets of 100 markers
(2) When fitted on terminal

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 terminal blocks
heavy duty



0390 18



Cable clamp/cable clamp (Cat. Nos. 0390 10/11)



Stud/stud (Cat. Nos. 0390 13/14/15)



Cable clamp/stud (Cat. Nos. 0390 17/18)



Stud/cable clamp (Cat. Nos. 0390 20/21)



0390 32



0394 78 + 0394 86

Selection chart (p. 428-429)
Technical information and dimensions (p. 439)

Heavy duty terminal blocks for copper and aluminium cables

Fix to 15 mm deep symmetrical and DIN rail EN 60715 ⊐⊏ 15 mm deep symmetrical and/or screw fix
Insulating material :
• Base - polyamide –30 to +100 °C
• Break to length cover - polypropylene –25 to +100 °C
Provision for shunt (Cat. Nos. 0394 46/47) to join terminals together
Provision for testing with 4 mm dia. plugable holes
Accept CAB 3 markers

Cable clamp/Cable clamp

Pack	Cat. Nos.	Panel builder Cu – Nominal cable capacity (mm²)	Contractor Cu/Al – Nominal cable capacity (mm²)	Width (mm)
5	0390 10	Cu 35 - 70	Cu 35 - 120 Al 35 - 120	42
5	0390 11	Cu 70 - 150	Cu 70 - 300 Al 70 - 300	55

Stud/Stud

Pack	Cat. Nos.	Panel builder Cu/Al – Nom. cable capacity (mm²)	Flat bar (mm)	Stud Ø (mm)	Contractor Cu/Al – Nom. cable capacity (mm²)	Flat bar (mm)	Stud Ø (mm)	Width (mm)
5	0390 13	95	28	M 8	95	28	M 8	36
5	0390 14	150	34	M 10	150	34	M 10	42
5	0390 15	300	46	M 12	300	46	M 12	55

Stud/Cable clamp

Pack	Cat. Nos.	Panel builder Cu/Al – Nom. cable capacity (mm²)	Flat bar (mm)	Stud Ø (mm)	Contractor Cu – Nominal cable capacity (mm²)	Width (mm)
5	0390 17	150	34	M 10	Cu 35 - 95	42
5	0390 18	300	46	M 12	Cu 70 - 150	55

Cable clamp/Stud

Pack	Cat. Nos.	Panel builder Cu/Al – Nominal cable capacity (mm²)	Contractor Cu/Al – Nom. cable capacity (mm²)	Flat bar (mm)	Stud Ø (mm)	Width (mm)
5	0390 20	Cu 35 - 120 Al 35 - 120	70	34	M 10	42
5	0390 21	Cu 70 - 300 Al 70 - 300	150	46	M 12	55

Accessories

Shunt : enables one terminal to be connected to another, supplied with fixing screws and washers

Pack	Cat. Nos.	
5	0394 46	For 36 and 42 mm width terminals
5	0394 47	For 55 mm width terminals

Terminals may be joined into blocks using threaded tie rods (not supplied) for stability

Heavy duty terminal blocks

Fix to asymmetrical rail EN 60715 ⊏⊐, with metal clip
Insulating material : polyamide –30 to +100 °C
Plastic foot

For busbars or eyelets

Pack	Cat. Nos.	Nominal capacity (mm²)	Plate width (mm)	Stud Ø (mm)	Width (mm)
5	0390 31	35	15	M 8	26
5	0390 32	70	20	M 10	34
5	0390 33	120	25	M 12	34
5	0390 34	240	35	M 16	46

Separation barriers

Accept protective covers
Accept CAB 3 markers
For terminals with width (mm) :

Pack	Cat. Nos.	
10	0394 77	26
10	0394 78	34 and 46

Protective covers

For mounting on separation barriers
For 3 terminals with width (mm) :

Pack	Cat. Nos.	
5	0394 86	46

For 4 terminals with width (mm) :

Pack	Cat. Nos.	
5	0394 88	26
5	0394 86	34
5	0394 89	46



End stops (p. 432)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Viking 3 terminal blocks
heavy duty

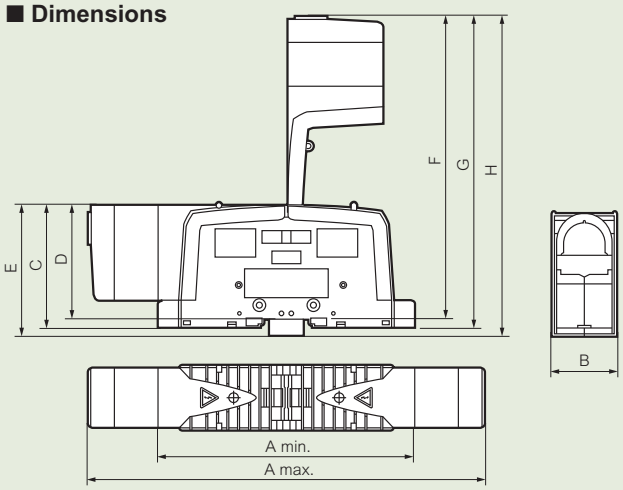
■ Technical information : heavy duty for ⊔ rail and/or screw fix

Conform to IEC/EN 60947-7-1, UL 1059 and 486E - CSA 22-2
IK 04
Resistance to fire according to IEC 60695-2-11 : 960 °C
750 °C for cover
V2 according to UL 94
Insulation voltage : Ui 1000 V
Impulse voltage (surge) Uimp : 12 kV

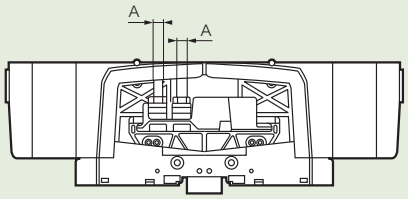
Cable equivalents

mm²	35	70	95	120	150	185	300
AWG	2	2/0	4/0	250	300	350	600

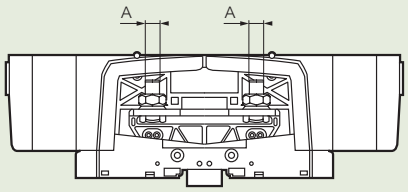
■ Dimensions



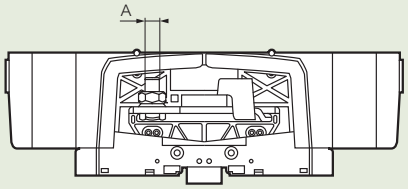
Cat. Nos.	A max. (mm)	A min. (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
0390 13	227	155	36	82	73	88	176	185	191
0390 10/14/17/20	296	200	42	83·5	74·5	89·5	212	221	227
0390 11/15/18/21	337	216	55	107·3	98·5	113·5	257	266	272



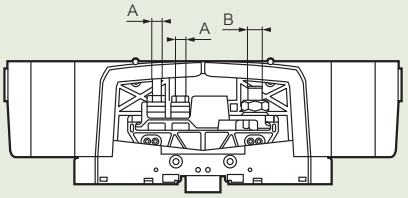
Cat. Nos.	A
0390 10	M 6
0390 11	M 8



Cat. Nos.	A	Plate width
0390 13	M 8	28
0390 14	M 10	34
0390 15	M 12	46



Cat. Nos.	A	Plate width
0390 17	M 10	34
0390 18	M 12	46



Cat. Nos.	A	B	Plate width
0390 20	M 6	M 10	34
0390 21	M 8	M 12	46

Cable-Cable



(Cat. Nos. 0390 10/11)

Stud-Stud



(Cat. Nos. 0390 13/14/15)

Cable-Stud



(Cat. Nos. 0390 17/18)

Stud-Cable



(Cat. Nos. 0390 20/21)

■ Rating data

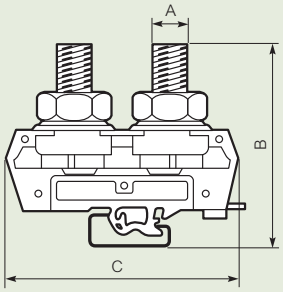
Cat. Nos.	Current rating (A)				Short-circuit rating (kA)		Torque setting (Nm)
	Input with shunt IEC	Incoming/outgoing			Input with shunt	Incoming/ outgoing	
		IEC	CSA	UL			
Cable-Cable							
0390 10	340	250	200	175	14·4	8·4	15
0390 11	570	400	300	285	36	18	35
Stud-Stud							
0390 13	310	310	250	230	11·4	11·4	15
0390 14	415	415	340	285	18	18	15
0390 15	670	670	520	420	36	36	35
Stud-Cable							
0390 17	415	315	210	230	18	11·4	15
0390 18	670	420	325	285	36	18	35
Cable-Stud							
0390 20	340	340	235	255	14·4	8·4	15
0390 21	570	570	375	420	36	18	35
Shunts							
0390 46	450 max.						6
0390 47	700 max.						10

■ Technical information : heavy duty for ⊏⊐ rail

Cat. Nos.	Voltage (V) IEC	Rating (A) IEC
0390 31	1 000	125
0390 32	1 000	192
0390 33	1 000	269
0390 34	1 000	415

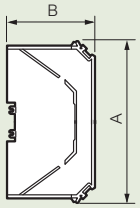
IEC 60947-7-1
Resistance to fire : 960 °C,
V2 according to UL 94

■ Dimensions



Cat. Nos. 0390 31/32/33/34

Cat. Nos.	A (mm)	B (mm)	C (mm)
0390 31	M 8	54·5	65
0390 32	M 10	61	78·5
0390 33	M 12	62	78·5
0390 34	M 16	73	94



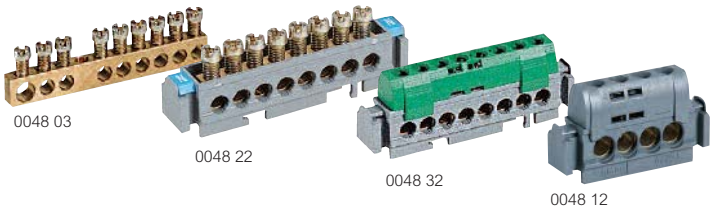
Cat. Nos. 0394 77/78

Cat. Nos.	A (mm)	B (mm)	Thickness
0394 77	106	82	8
0394 78	188	102	12

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

distribution terminal blocks

distribution terminal blocks



Conform to standard IEC 60998-2-1
Supplied ready for use (screws backed-off)
100 A max. - 400 V~ with 25 mm² incoming
80 A max. - 400 V~ with 16 mm² incoming
Ipk (kA) 60 : Icw (kA) 3·5

Unshrouded terminal blocks

Fix using M4 dia. screw from rear of mounting plate

Pack	Cat. Nos.	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 01	1 x 6 to 25 mm²	4 x 1·5 to 16 mm²	45
10	0048 03	1 x 6 to 25 mm²	8 x 1·5 to 16 mm²	73
10	0048 05	1 x 6 to 25 mm²	14 x 1·5 to 16 mm²	122
10	0048 06	1 x 6 to 25 mm²	19 x 1·5 to 16 mm²	157
10	0048 07	1 x 6 to 25 mm²	24 x 1·5 to 16 mm²	192

Partly shrouded terminals on base

For fixing to 12 x 2 mm rail
Supplied with Duplix markers(1)

Pack	Cat. Nos.	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 20(1)	–	4 x 1·5 to 16 mm²	47
10	0048 22(1)(2)	–	8 x 1·5 to 16 mm²	75
10	0048 24(1)(2)	1 x 6 to 25 mm²	12 x 1·5 to 16 mm²	113
10	0048 25(1)	1 x 6 to 25 mm²	16 x 1·5 to 16 mm²	141

Fully shrouded terminals providing finger protection IP 2x

For fixing to 12 x 2 mm rail

Pack	Phase (black)	Neutral (blue)	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 50	0048 40	–	4 x 1·5 to 16 mm²	47
10	0048 52(2)	0048 42(2)	–	8 x 1·5 to 16 mm²	75
10	0048 54(2)	0048 44(2)	1 x 6 to 25 mm²	12 x 1·5 to 16 mm²	113
10	0048 55	0048 45	1 x 6 to 25 mm²	16 x 1·5 to 16 mm²	141
10	0048 56	0048 46	1 x 6 to 25 mm²	21 x 1·5 to 16 mm²	176
10	0048 58	0048 48	2 x 6 to 25 mm²	33 x 1·5 to 16 mm²	276

Pack	Earth (green)	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 30	–	4 x 1·5 to 16 mm²	47
10	0048 32(2)	–	8 x 1·5 to 16 mm²	75
10	0048 34(2)	1 x 6 to 25 mm²	12 x 1·5 to 16 mm²	113
10	0048 35	1 x 6 to 25 mm²	16 x 1·5 to 16 mm²	141
10	0048 36	1 x 6 to 25 mm²	21 x 1·5 to 16 mm²	176
10	0048 38	2 x 6 to 25 mm²	33 x 1·5 to 16 mm²	276

Fully shrouded terminals for looping

Supplied with Duplix markers(1)

Pack	Cat. Nos.	Incoming capacity	Outgoing capacity	Terminal length (mm)
10	0048 12(1)	6 x 6 to 25 mm²	–	54

Fully shrouded terminal blocks 3 phase + neutral (3 black + 1 blue)

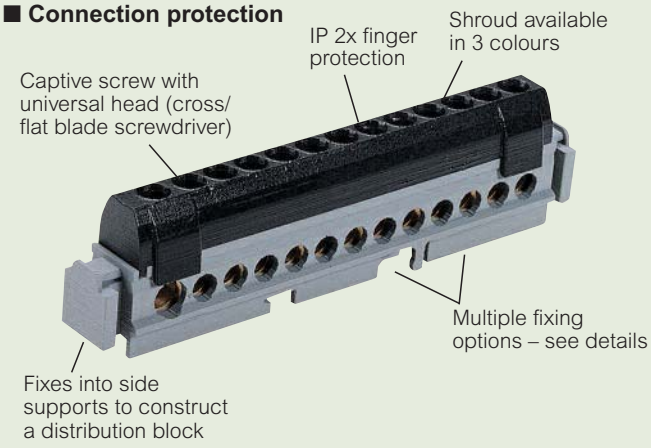
Pack	Cat. Nos.	Incoming capacity	Outgoing capacity	Terminal length (mm)
1	0048 14	Neutral x 1 1 x 4 to 25 mm²	12 x 1·5 to 16 mm²	227
		Phase x 3 1 x 1·5 to 16 mm²	3 x 1·5 to 16 mm²	

Supports for terminal blocks

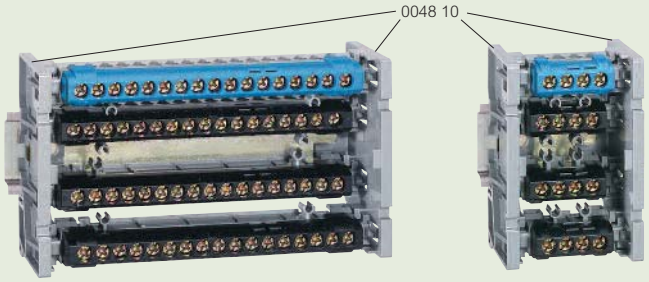
Pack	Cat. Nos.	
1	0048 10	Consists of two side supports enabling the positioning of up to 4 x IP 2x terminal blocks with the same dimensions to create a 2, 3 or 4 pole distribution block
5	0048 11	Adaptor support for ⊔ or ⊏⊐ rail. Provides a firm fixing allowing IP 2x terminal blocks to be side or top mounted on to adaptor
5	0048 18	Support bar with 28 holes for shrouded terminals
10	0048 19	1 metre length of 12 x 2 mm terminal mounting rail - accepts partly and fully shrouded terminals

(1) Each terminal supplied with :
- 2 green Duplix markers (⏚) - 2 blue Duplix markers (N) - 2 red Duplix markers (L)
(2) Can be fixed directly to DIN rail without accessory

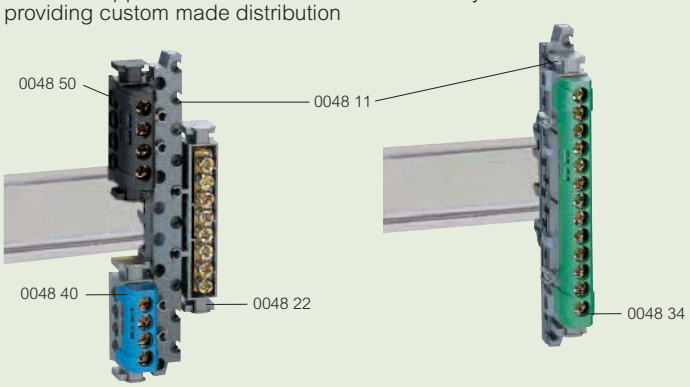
■ Connection protection



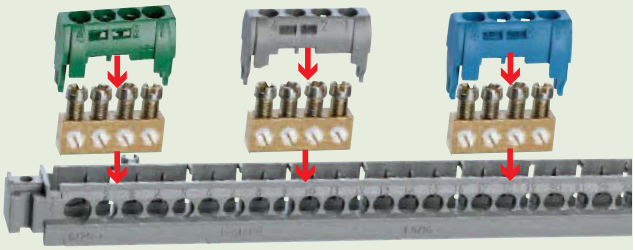
■ Use of terminal supports Cat. No. 0048 10



Terminal supports Cat. No. 0048 10 fitted with fully shrouded terminals providing custom made distribution



Adaptor support Cat. No. 0048 11 showing method of fixing terminals



Create your own arrangement, using a 28 hole support bar Cat. No. 0048 18 and partly or fully shrouded terminals



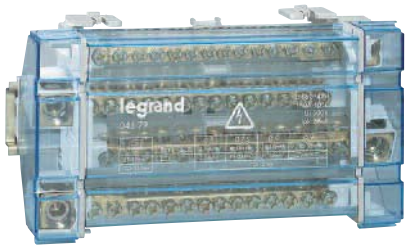
IP 2x terminals are the ideal companion for Plexo boxes, see p. 409

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

distribution blocks 40 to 160 A
modular style - rail or screw fixing



0048 88 + 0048 45



0048 79

Connection with or without Starfix (p. 447)

Modular style blocks

Fixing on rail ⊔ or on plate using 2 screws
Supplied complete with rear insulated plate and transparent cover
Bar identification possible using CAB 3 markers
When installing under a front plate a blank can also be clipped on to the front plate
Additional IP 2x terminals can be fitted (see table opposite)

Double pole

Pack	Cat. Nos.		Ways per bar	Capacity rigid (mm^2)	Capacity flexible (mm^2)	Ipk peak withstand current (kA)	Icw (kA)	Number of modules
5	0048 81	**40 A**	11 2	1·5 to 4 6 to 16	0·75 to 4 4 to 10	20	3	6
10	0048 80	**100 A**	5 2	2·5 to 10 10 to 25	1·5 to 10 6 to 16	20	4·5	4
5	0048 82	**125 A**	11 2 2	2·5 to 10 10 to 25 10 to 35	1·5 to 10 6 to 16 10 to 25	18	4·5	8

Four pole

Pack	Cat. Nos.		Ways per bar	Capacity rigid (mm^2)	Capacity flexible (mm^2)	Ipk peak withstand current (kA)	Icw (kA)	Number of modules
5	0048 85	**40 A**	11 2	1·5 to 4 6 to 16	0·75 to 4 4 to 10	20	3	6
10	0048 84	**100 A**	5 2	2·5 to 10 10 to 25	1·5 to 10 6 to 16	20	4·5	4
5	0048 86	**125 A**	7 2 2	2·5 to 10 10 to 25 10 to 35	1·5 to 10 6 to 16 10 to 25	20	4·5	6
5	0048 88	**125 A**	11 4	2·5 to 10 10 to 35	1·5 to 10 6 to 25(1)	14·5	4·2	8
1	0048 79	**160 A**	1 8 4 2	35 to 70 2·5 to 10 10 to 25 10 to 35	35 to 70 1·5 to 10 6 to 16 10 to 25(1)	27	8·4	10

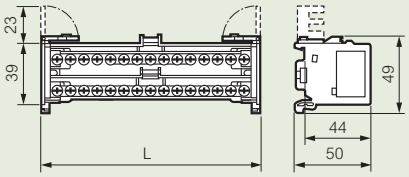
(1) Supplied with short ferrule

distribution blocks 40 to 160 A
modular style - rail or screw fixing

Conform to standard EN 60947-1
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
Impulse (surge) voltage (Uimp) : 8 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing 960 °C for supports and active parts

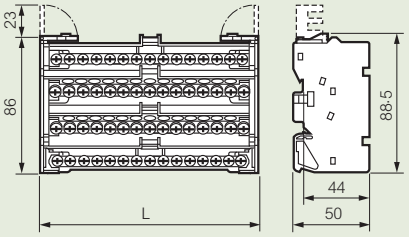
■ Dimensions

Double pole 40 - 100 - 125 A

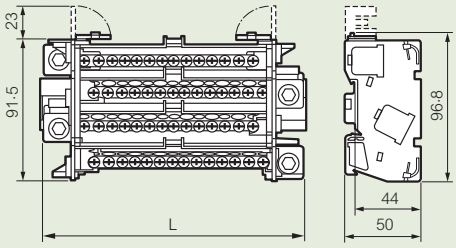


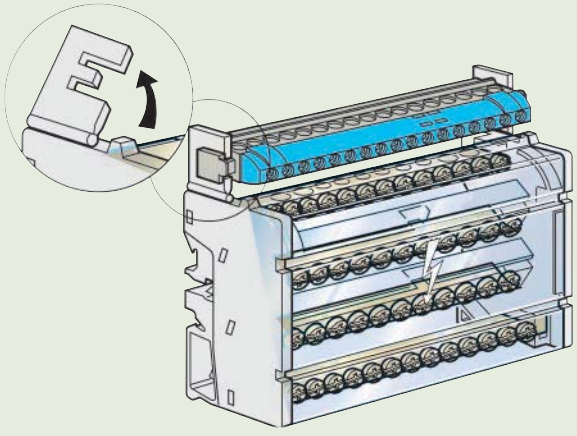
Cat. Nos.	Length
0048 80	70
0048 81	105
0048 82	140
0048 84	70
0048 85	105
0048 86	105
0048 88	140
0048 79	179

Four pole 40 - 100 - 125 A



Four pole 160 A

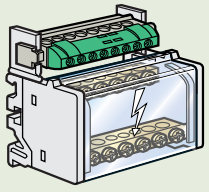




0048 88 + 0048 45

Extend your wiring capability using IP 2x fully shrouded terminals on the following :
(see p. 440)

Distribution block Cat. Nos.	IP 2x Terminal	Characteristics Voltage	Characteristics Rating
0048 80	0048 32(1)	400 V	80 A
0048 81	0048 34(1)	400 V	40 A
0048 82	0048 35(1)	400 V	100 A
0048 84	0048 42(2)	400 V	80 A
0048 85	0048 44(2)	400 V	40 A
0048 86	0048 44(2)	400 V	100 A
0048 88	0048 45(2)	400 V	100 A
0048 79	0048 45(2)	400 V	100 A



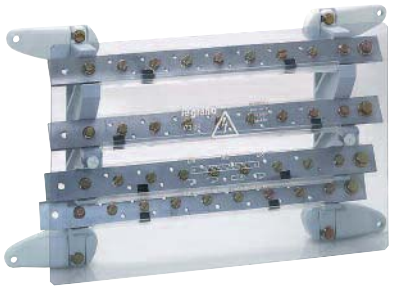
0048 80 + 0048 32

(1) ⏚ (green cover)
(2) Neutral (blue cover)

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

distribution blocks 125 to 400 A
four pole


0374 00


0373 08

Pack	Cat. Nos.	Extra-flat distribution blocks for lugs
		125 A screw type (60 mm depth)
1	0374 47	Fix to ⊥ (15 mm high) or by M6 screws Four bars each equipped with : Incoming: 1 x 35 mm² | Phase outgoing: 10 x 16 mm² M5 | Neutral outgoing: 17 x 16 mm² M5 | No. of 17·5 mm modules: 16 Connection possible using Connector Cat. No. 0373 65 (p. 443)
		250 A (75·5 mm depth)
1	0374 00	Fix to mounting plate by M6 screws Four bars each equipped with : Incoming: 150 mm² | Outgoing: either 1 x 70 mm² or 1 x 50 mm² plus 1 x 35 mm² or 2 x 35 mm² | or 1 connector Cat. No. 0374 03
1	0374 03	Connector for Cat. No. 0374 00 converts outgoing terminal to : • 1 x 1·5 to 6 mm² Ø 5·3 mm • 2 x 6 to 16 mm² Ø 7·5 mm Dimensions : 29 x 29 x 16·8 mm

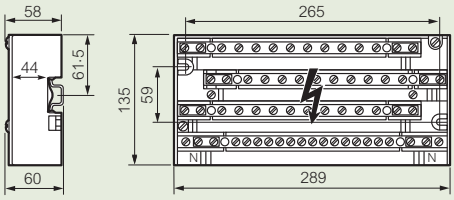


Pack	Cat. Nos.	Stepped distribution blocks for lugs
		125 A (77 mm depth)
1	0373 95	Fix to ⊥ (15 mm high) or by M4 screws Four 12 x 4 mm bars each equipped with : • Five 2 x 10 mm² claw connectors per bar (not mounted)
		125 A (125 mm depth)
1	0374 30	Fix to mounting plate by M6 screws Four 15 x 4 mm bars each equipped with : Incoming: 1 x 35 mm² - M8 screw | Outgoing: 5 x 25 mm² - M6 screw
		160 A (125 mm depth)
1	0374 31	Fix to mounting plate by M6 screws Four 18 x 4 mm bars each equipped with : Incoming: 1 x 70 mm² - M8 screw | Outgoing: 5 x 35 mm² - M6 screw
		250 A (155 mm depth)
1	0374 35	Fix to mounting plate by M6 screws Four 25 x 4 mm bars each equipped with : Incoming: 1 x 120 mm² - M10 screw | Outgoing: 5 x 50 mm² - M8 screw
		400 A (107 mm depth)
1	0373 08	With front insulation sheet Four 32 x 5 mm bars equipped with : Incoming: 2 x Ø 8·5 mm holes for bar/flexible bar | Outgoing: 21 x M6 holes for 70 mm² max cable lugs

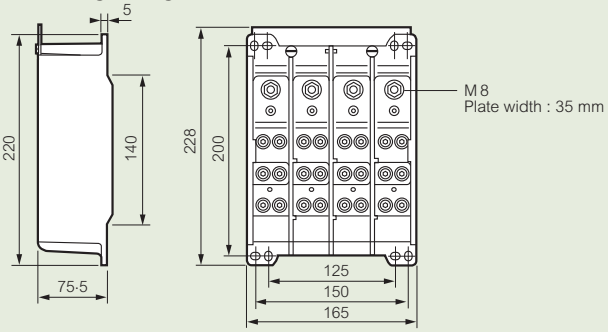
distribution blocks 125 to 400 A
four pole

■ Extra-flat distribution blocks for lugs

125 A Cat. No. 0374 47 - Ipk peak withstand current 25 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
Self-extinguishing : 960 °C

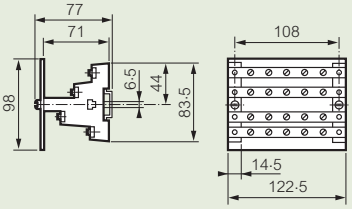


250 A Cat. No. 0374 00 - Ipk peak withstand current 60 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
Self-extinguishing : 960 °C

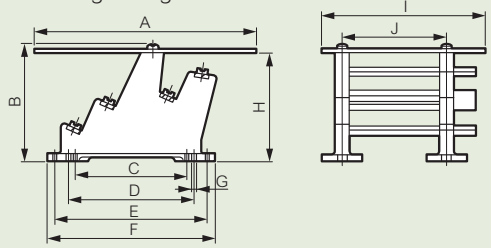


■ Stepped distribution blocks for lugs

125 A Cat. No. 0373 95 - Ipk peak withstand current 20 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 600 V
Self-extinguishing : 850 °C



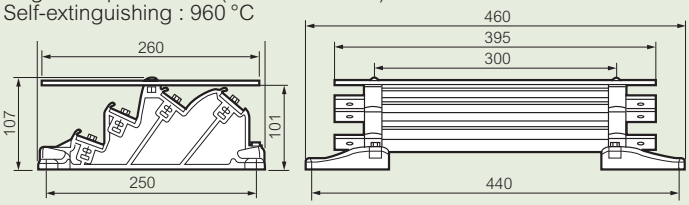
125/160/250 A Cat. Nos. 0374 30/31/35 - Ipk peak withstand current 35 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
Impulse (surge) voltage (Uimp) : 12 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing : 850 °C



Dimensions (mm)

Rating	A	B	C	D	E	F	G	H	I	J
125 A	225	125	110	125	165	189	6·5	117·5	165	108
160 A	240	125	110	125	165	189	6·5	117·5	180	120
250 A	260	155	110	125	185	209	6·5	147·5	195	120

400 A(1) Cat. No. 0373 08 - Ipk peak withstand current 42 kA
Insulation voltage according to EN 60947-1/IEC 60664-1 : 1 000 V
Impulse (surge) voltage (Uimp) : 12 kV
Degree of pollution : 3 (conductive dust)
Self-extinguishing : 960 °C



(1) It is recommended that the unit is fitted horizontally with a minimum face plate height of 300 mm

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

distribution blocks
for assembly


0373 96


0373 98


0374 37

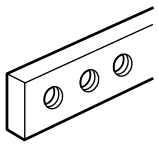

0374 33

Pack	Cat. Nos.	Insulated supports		
		For making up distribution blocks of varying lengths using bars and connectors opposite Supplied with insulated screws for mounting optional protective cover (except 0373 98)		
		Set of 2 insulated 4 pole supports	**Mounting**	
5	0373 96	For bars 12 x 2 or 12 x 4 mm	by claws 0044 16 supplied or M4 screws not supplied	
		Single pole supports		
10	0373 98	For bars 12 x 2 or 12 x 4 mm	by M4 screws supplied	
10	0374 37	For bars 15 x 4, 18 x 4 or 25 x 4 mm		

Copper connector bars

With threaded holes

Pack	Cat. Nos.	Size (mm)	Threaded holes Ø mm	Threaded holes Pitch	Max. thermal rating (A)	Length (mm)
10	0373 88	12 x 2	M5	18	110	990
10	0373 89	12 x 4	M5	18	160	990
10	0374 33	15 x 4	M6	18	200	990
10	0374 34	18 x 4	M6	18	245	990
10	0374 38	25 x 4	M6	18	280	990
4	0374 19	32 x 5	M6	25	450	1 750

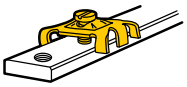


Connectors

Clamp type – For bars with threaded holes 12 x 4 (mm)

For one or two conductors

Pack	Cat. Nos.	
100	0373 65	1·5 to 10 mm² (supplied with Ø 5 mm screw)



Cage type – For bare 12 x 4 mm bars

Pack	Cat. Nos.	Capacity
100	0373 60	1·5 to 4 mm²
10	0373 61	6 to 16 mm²
10	0373 62	10 to 35 mm² (supplied with hexagonal 5 mm M6 screw)



Clips

For mounting on rail EN 60715 ⊓ and ⊔ 15 mm depth

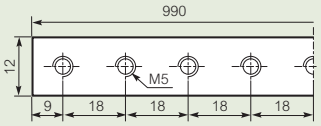
Pack	Cat. Nos.	
10	0044 16	10 mm width With threaded Ø 4 mm hole



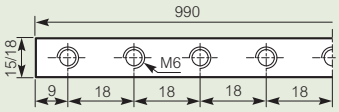
distribution blocks
for assembly

■ Bars with threaded holes

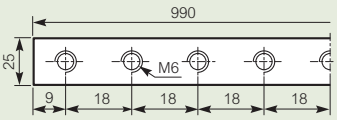
Cat. Nos. 0373 88/89



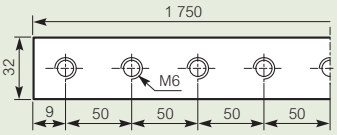
Cat. No. 0374 33/34



Cat. No. 0374 38



Cat. No. 0374 19



Cat. Nos.	Size	Ithe (A)	Ic (A)
0373 88	12 x 2	110	80
0373 89	12 x 4	160	125
0374 33	15 x 4	200	160
0374 34	18 x 4	245	200
0374 38	25 x 4	280	250
0374 19	32 x 5	450	400

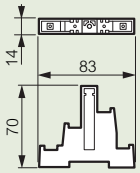
Current ratings according to EN 60947-1 :
- Ith : bars in free air
- Ithe : bars enclosed with ventilation
- Ic : bars totally enclosed in a weatherproof enclosure

■ Insulated supports four pole :

Insulation voltage according to EN 60947-1/IEC 60664-1 :
Cat. No. 0373 96 : 690 V - Impulse voltage (surge) (Uimp) : 8 kV
Degree of pollution (conductive dust) : 3
Distance between supports (mm)

Cat. Nos.	0373 96
Bar size	12 x 4 (12 x 2)
In (A)	125 (80)
Peak withstand current (kA)	
10	400 (200)
15	300 (150)
20	200 (125)
25	150 (100)
30	–
35	–
40	–

Cat. No. 0373 96

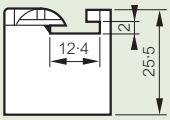


■ Insulated supports single pole

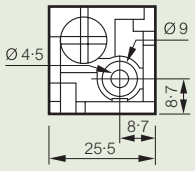
Insulation voltage according to EN 60947-1/IEC 60664-1 : 500 V
Impulse voltage (surge) (Uimp) : 8 kV
Degree of pollution (conductive dust) : 3

Cat. No. 0373 98

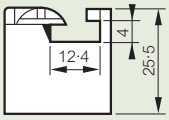
Front view for 12 x 2 mm bar



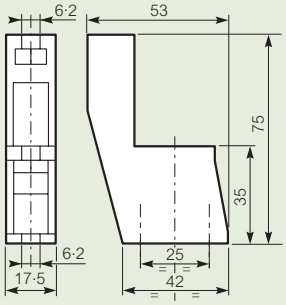
View from above



Front view for 12 x 4 mm bar



Cat. No. 0374 37



Max. space between 2 supports :
bar size 12 x 2 : 20 cm, 12 x 4 : 25 cm

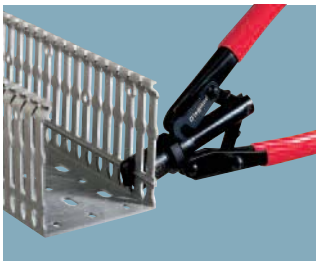
The distance between supports can be determined using the chart
Select the peak withstand current (kA rating) and the distance between bars - dimension E (mm) after choosing your bar and support
Distance between supports (mm)

Cat. Nos.	0373 98				0374 37			
Bar size	12 x 2/12 x 4				15 x 4/18 x 4/25 x 4			
In (A)	80/125				160/200/245			
E (mm)	50	75	100	125	50	75	100	125
Peak withstand current (kA)								
10	400	600	800	–	350	600	750	–
15	300	450	600	800	250	400	500	700
20	250	350	450	600	150	225	300	375
25	200	250	300	400	125	150	200	250
30	–	–	–	–	100	125	150	175
35	–	–	–	–	–	100	125	150
40	–	–	–	–	–	–	–	–

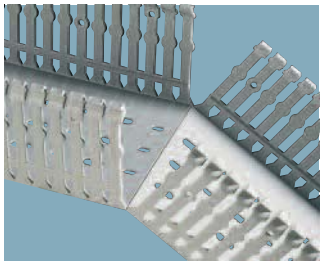
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Uniquely innovative

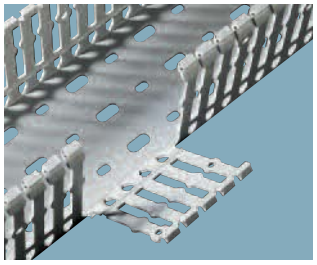
Transcab's body has 6 mm gaps and 6·5 mm fingers with unique support ribs for a rigid construction. Its rounded-end fingers can be removed at support rib or base level, making it easy to break to length and create T-junctions without the need for a saw. Covers clip quickly into place and have raised lines making it easy to align labels.



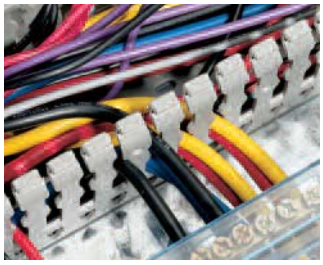
■ Using the specially designed tool, support ribs can be easily and cleanly removed



■ Once the support rib is removed, the base can be snapped to length



■ By removing individual support ribs, large gaps for T-junctions can be made without the need for a saw



■ The "swollen" finger design allows wires to exit at contact or coil level

THE PANEL BUILDER'S CHOICE

> Suitable for almost any industrial application,Transcab is used by professional panel builders all over the world

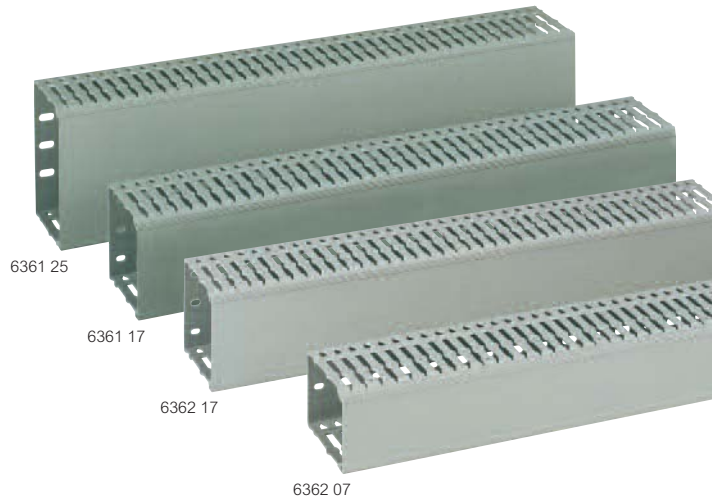






Transcab® open slot cable ducting

PVC and PC/ABS halogen free



Dimensions and technical information (p. 446)
Accessories (p. 445)

Conforms to EN 50085 Parts 2 and 3, UL and CSA
Material : PVC self-extinguishing or PC/ABS halogen free
Colour : grey RAL 7030 (PVC) or light grey RAL 7035 (PC/ABS)
PC/ABS range passes IEC 695-2-1 850 °C glow wire test
Operating temp. : –5 to +60 °C
UL classification : UL94 VO
Oxygen index : 43% (PVC) or 37% (PC/ABS) EN ISO 4589
Metric size body in 2 m lengths (6 mm gap/6·5 mm finger width)
DIN fixing centres of 12·5/25 mm
Maximum space for cables with good heat dissipation
Exit cables at terminal or base level
Pre-scored based enables the ducting to be snapped to length, once the reinforcement bar is removed
Rounded fingers are easily removed at the terminal or base level, without injury during wiring
Cover can be cut without surface damage due to the raised edges which also provide a guide for labels

Plastic cable ducting (base + cover)

2 metre lengths

Pack[1]	Cat. Nos. PVC Grey RAL 7030	Cat. Nos. PC/ABS Grey RAL 7030 halogen free	Width x Height (mm)	Capacity (mm²)
32	6360 95		15 x 25	264
60	6361 00		25 x 25	391
56	6361 05		40 x 25	692
40	6360 96		15 x 40	455
56	6361 01		25 x 40	720
48	6361 06		40 x 40	1 245
32	6361 11		60 x 40	1 932
24	6361 15		80 x 40	2 647
24	6361 19		100 x 40	3 363
56	6361 02	6362 02	25 x 60	1 159
48	6361 07	6362 07	40 x 60	2 007
32	6361 12	6362 12	60 x 60	3 115
24	6361 16		80 x 60	4 200
24	6361 20		100 x 60	5 307
16	6361 24		120 x 60	6 403
40	6361 03		25 x 80	1 600
40	6361 08		40 x 80	2 717
32	6361 13	6362 13	60 x 80	4 216
24	6361 17	6362 17	80 x 80	5 715
16	6361 21		100 x 80	7 215
16	6361 25	6362 25	120 x 80	8 729
24	6361 09		40 x 100	3 354
24	6361 14		60 x 100	5 216
20	6361 18		80 x 100	7 078
16	6361 22		100 x 100	8 960
12	6361 23		150 x 100	13 683

Spare covers

2 metre lengths

PVC	PC/ABS	Width (mm)
0370 10		15 - also used for marking[2]
0370 11		25
0370 12		40
0370 13	6362 93	60
0370 14	6362 94	80

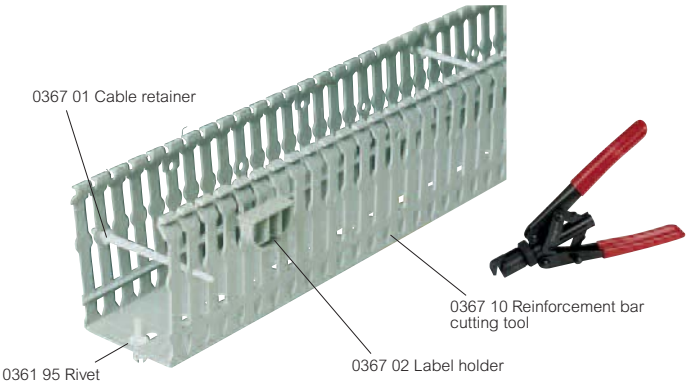
(1) Metres contained in each pack
(2) Clips to label holder cat. No. 0367 02

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Lina 25® open slot cable ducting
PVC



Transcab® and Lina 25® accessories



Dimensions and technical information (p. 446)
Accessories (opposite)

Conforms to EN 50085 Parts 2 and 3, UL and CSA
Material : PVC
Colour : grey RAL 7030 with white strips on the cover
Metric size body in 2 metre lengths
(6 mm gap/6·5 mm finger width)
DIN fixing centres of 12·5/25 mm
Maximum space for cables with good heat dissipation
Exit cables at terminal or base level
Pre-scored base enables the ducting to be snapped to length, once the reinforcement bar is removed
Reinforcement bar provides not only rigidity but also an anchor for cable ties
Cover clips easily into position and remains firmly in place
Additional accessories enable faster fixing and marking

Lina 25 plastic cable ducting

Pack	Cat. Nos.	Metres per pack	Length 2 m	Width x Height (mm)	Capacity (mm²)
		60	6360 00	25 x 25	391
		56	6360 01	25 x 40	720
		56	6360 02	25 x 60	1 159
		48	6360 07	40 x 60	2 007
		32	6360 12	60 x 60	3 115
		40	6360 08	40 x 80	2 717
		32	6360 13	60 x 80	4 216
		24	6360 17	80 x 80	5 716

Ducting accessories

Pack	Cat. Nos.	
100	6361 90	Insulated Nylon fixing screws Ø 6 mm
500	6361 95	Insulated plastic rivets Ø 6 mm
50	0367 01	Cable retainer
50	0367 02	Label holder (clips to finger)
1	0367 10	Tool for cutting 6 mm reinforcement bar


0367 10

Linafix fixing accessory

Pack	Cat. Nos.	
20	0366 42	Material : polyamide 6/6 For fixing ducting to enclosure duct Fits under warning lights or other auxiliary controls attached to door. Enables direct mounting of ducting by a manual 1/4 turn



Braided sleeving

Material: black polyester
25 m roll in dispenser box
Used to protect runs of cables to door equipment

Pack	Cat. Nos.		Cable bunch diameter
1	0366 38	Ø 20 mm	10 - 30 mm
1	0366 39	Ø 30 mm	18 - 54 mm



Black felt tip pen

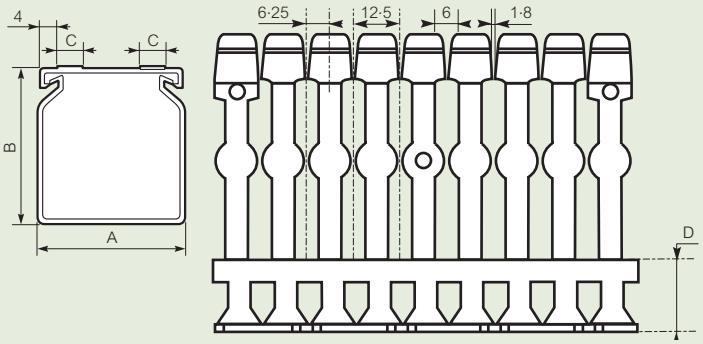
Pack	Cat. Nos.	
10/500	0395 98	Indelible for marking



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Transcab® and Lina 25® open slot cable ducting

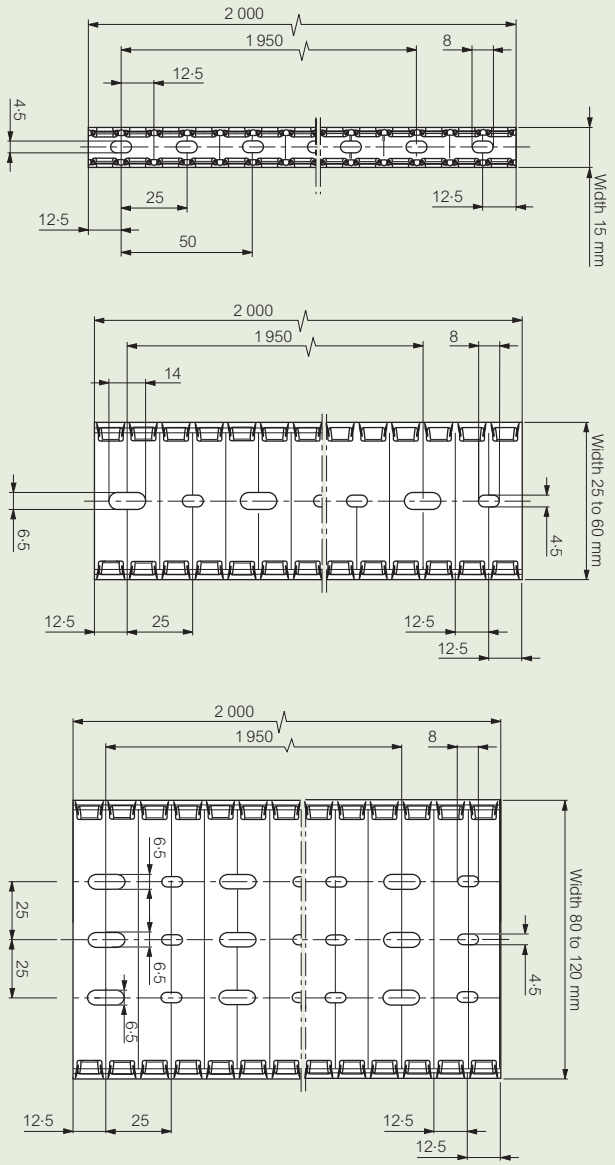
■ Dimensions



Ducting width 25 to 120 mm
6 mm gap – 6·5 mm finger width

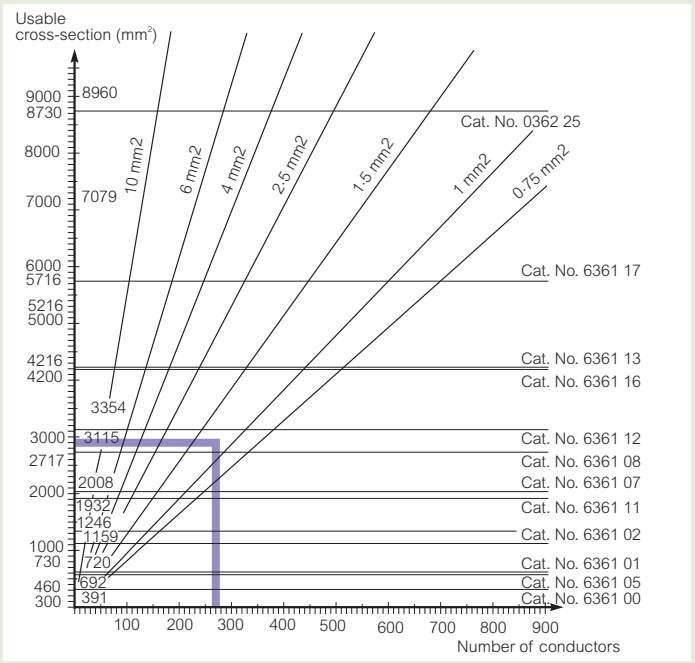
Transcab Cat. Nos.	Lina 25 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
6361 00	6360 00	25	25	6	10·1
6361 01	6360 01	25	40	5	12·6
6361 06		40	40	10	12·6
6361 11		60	60	–	16·1
6361 02	6360 02	25	60	6	16·1
6361 07	6360 07	40	60	10	16·1
6361 12	6360 12	60	60	10	16·1
6361 16		80	60	10	16·1
6361 20		100	60	–	16·1
6361 03		25	80	–	18·6
6361 08	6360 08	40	80	10	18·6
6361 13	6360 13	60	80	10	18·6
6361 17	6360 17	80	80	10	18·6
6361 21		100	80	–	18·6
6361 25		120	80	–	18·6
6361 14		60	100	–	20·6
6361 22		100	100	–	20·6
6361 23		150	100		20·6

■ Detail of base perforations



Calculating the ducting usable cross-section

Graph for H 05 V-K and H 07 V-K cables with 0·75 packing coefficient

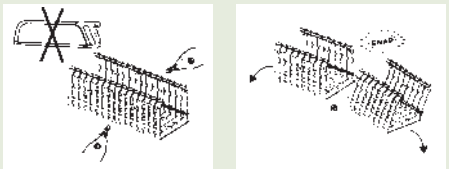


Example:

150 conductors 0·75 mm² → 1 230 mm² cross-section and
120 conductors 1·5 mm² → 1 700 mm² cross-section
Makes a total of 2 930 mm²

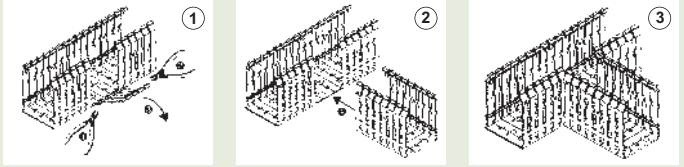
The correct cable ducting is Cat. No. 6361 12, 60 x 60, with a capacity of 3 115 mm²

Faster base build without a saw



Remove reinforcement bars at required length and break

'T' junctions made easy



1 Clip out the required section width reinforcement bars and snap out section
2 Form tee section and fix into place
3 Ready for wiring – cut cover to suit

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Starfix® crimping tools and ferrules


0376 49 + 0376 56


0376 92


0376 97 + 0376 81


0376 43


0376 62


0376 53


0376 81


0376 70


0376 87


0376 59

Application and crimping tools

For ferrules of 0·5 to 6 mm²
Supplied complete with colour-coded applicators, for dispensing strips
For simultaneously separating and crimping the ferrules
Body : polyetherimide resin

Starfix with assisted feed
Cut and crimp the ferrule in one operation

Pack	Cat. Nos.	
1	0376 49	Cross-sections 0·5 - 0·75 - 1 - 1·5 and 2·5 mm² (supplied with 5 empty applicators) standard version
1	0376 91	Cross-sections 0·5 - 0·75 - 1 - 1·5 and 2·5 mm² (supplied with 5 empty applicators) ratchet version with crimping operation control system

Starfix standard crimping tool

1	0376 51	Cross-section 4 and 6 mm² (supplied with 2 empty applicators) standard version
1	0376 96	Cross-sections 4 and 6 mm² (supplied with 2 empty applicators) ratchet version with crimping operation control system

Starfix applicators
For dispensing colour-coded strips of ferrules
Polyamide 6/6

Pack	Cat. Nos.	For ferrules cross-section (mm²)	Colour
10	0376 52	0·5	White
10	0376 53	0·75(1)	Blue
10	0376 54	1(1)	Red
10	0376 55	1·5	Black
10	0376 56	2·5	Grey

Spare parts for Starfix application tools
Set of 5 cutting and crimping blades and fixing accessories

1	0376 98	For Starfix tool Cat. Nos. 0376 49 - 0376 91
1	0376 99	For Starfix tool Cat. Nos. 0376 51 - 0376 96

Starfix S multi-purpose application tool

For ferrules of 0·5 to 2·5 mm². 4 point crimping
This one tool : cuts, strips, twists, crimps
Supplied complete with colour-coded applicators, for dispensing strips
For simultaneously separating and crimping the ferrules

1	0376 97	Cross-sections 0·5 - 0·75 - 1 - 1·5 and 2·5 mm² (supplied complete with 5 empty applicators)

Starfix S applicators
For dispensing colour-coded strips of ferrules
Removable transparent cover

Pack	Cat. Nos.	For ferrules cross-section (mm²)	Colour
5	0376 80	0·5	White
5	0376 81	0·75(1)	Blue
5	0376 82	1(1)	Red
5	0376 83	1·5	Black
5	0376 84	2·5	Grey

Starfix tool for individual ferrules

1	0376 92	Assorted Starfix kit : • 1 crimping tool for individual ferrules From 10² to 50² • 30 individual ferrules 10² • 20 individual ferrules 16² • 15 individual ferrules 25² • 10 individual ferrules 35² • 10 individual ferrules 50²

(1) If Tri-rated use one size larger applicator

Ferrules with insulating flange

Active part in tinned electrolytic copper
Insulating flange in polypropylene

Pack	Cat. Nos.	For cables cross-section (mm)	Colour	Pack contents
480	0376 61	0·5	White	12 strips of 40 ferrules
480	0376 62(1)	0·75	Blue	
1 000	0376 63(1)	1	Red	25 strips of 40 ferrules
1 000	0376 64	1·5	Black	
1 000	0376 66	2·5	Grey	
250	0376 67	4	Orange	10 strips of 25 ferrules
250	0376 68	6	Green	
100	0376 69	10	Brown	Individual
100	0376 70	16	White	
50	0376 71	25	Black	

Large capacity Starfix refills

Refills for crimping tools Cat. No. 0376 49 (cross-sections 0·5 to 2·5 mm²)
Large capacity for less frequent applicator reloading
Does not overload the tool
Translucent packaging

Pack	Cat. Nos.	For cables(2) cross-section (mm²)	Colour	Refill capacity
3 000	0376 41	0·5	White	300 ferrules
3 000	0376 42	0·75	Blue	300 ferrules
3 000	0376 43	1	Red	300 ferrules
3 000	0376 44	1·5	Black	300 ferrules
2 500	0376 45	2·5	Grey	250 ferrules

Double ferrules with insulating flange

Active part in tinned electrolytic copper
Insulating flange in polypropylene

Pack	Cat. Nos.	For cables cross-section (mm²)	Colour	Pack contents
100/500	0376 87	2 x 0·75	Blue	Individual
100/500	0376 88	2 x 1	Red	
100/500	0376 89	2 x 1·5	Black	
100/500	0376 90	2 x 2·5	Grey	

Assorted kit

1	0376 59	Supplied comprising : • 1 Starfix tool Cat. No. 0376 49 • 5 applicators, empty • 120 x 0·5 mm² ferrules • 120 x 0·75 mm² ferrules • 240 x 1 mm² ferrules • 320 x 1·5 mm² ferrules • 200 x 2·5 mm² ferrules

Toolbox for on site use

1	0382 00	Supplied empty, for carrying : • Starfix ferrules • CAB 3 cable marking

(1) May not fit 0·75 mm² and 1 mm² British Tri-rated wires, use one size larger ferrules. See chart on next page, measurement D1

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Starfix® crimping tools and ferrules

■ Starfix crimping tool with crimping operation control system :

- Dispensing and crimping for ferrules from 0·5 to 6 mm²
- Starfix crimping tool with assisted feed for ferrules from 0·5 to 2·5 mm²
- Total control of the crimping operation
- Ratchet system prevents unlocking before crimping is complete
- Marker-holder for identifying the crimping tool

■ Installing large capacity refills on Starfix ratchet pliers Cat. No. 0376 91



① Place the applicator in the pliers



② Fit the appropriate large capacity refill for the required ferrule Ø to the applicator by breaking off the back part of the pliers

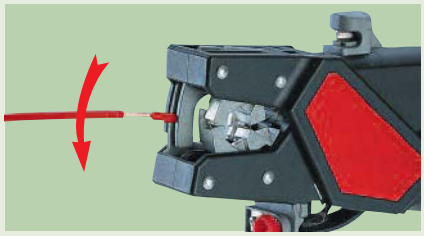


③ Crimp in the normal manner

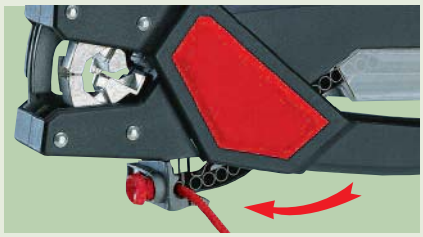
■ How to use the Starfix S multi-purpose application tool Cat. No. 0376 97



① Set the wheel to the wire cross-section :
position I - 0·5 to 1 mm²
position II - 1·5 to 2·5 mm²



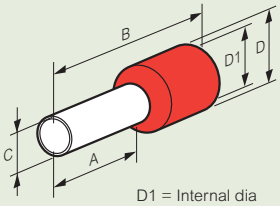
② Twist the wire : tighten the tool while pulling the wire to remove the insulation



③ Crimp : push the Starfix ferrule against the wire and tighten

■ Ferrules with insulating flange

- Conductor : tinned electrolytic copper
- Insulating flange : polypropylene
- Supplied in strips (cross-section of 0·5 to 6 mm²) for easy use with Starfix and Starfix S applicators (p. 447)
- 10 mm² and above are individual ferrules

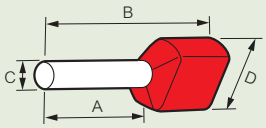


D1 = Internal dia

Cross-section (mm²)	A (mm)	B (mm)	C (mm)	D (mm)	D1 (mm)
0·5	7·6	14·1	1·5	3·4	2·74
0·75	7·6	14·1	1·5	3·4	2·74
1	7·6	14·1	1·7	3·6	2·93
1·5	7·6	14·1	2	4·1	3·42
2·5	7·6	15·1	2·6	4·8	4·08
4	11·9	21·1	3·2	5·7	–
6	11·9	22·9	3·9	7·2	–
10	12	21	4·9	8·1	–
16	12	23	6·3	9·8	–
25	18	31	7·9	12	–
35	18	32	8·9	13·5	–

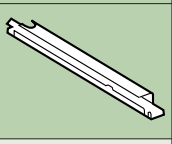
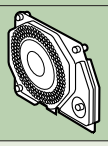
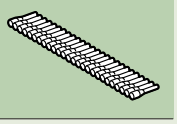
■ Double ferrules with insulating flange

- Conductor : tinned electrolytic copper
- Insulating flange : polypropylene
- Supplied in packs of 100 : 5 packs per box



Cross-section (mm²)	A (mm)	B (mm)	C (mm)	D (mm)
2 x 0·75	8	15	2·1	3·3/6
2 x 1	8	15	2·35	4/6
2 x 1·5	8	16	2·6	4·2/7·2
2 x 2·5	10	18.5	3·3	4·8/8·4

■ Correspondence table

Ferrule	Applicators(1)	Refill(1)	Strips
Ø			
0·5 mm²	0376 52	0376 41	0376 61
0·75 mm²	0376 53	0376 42	0376 62
1 mm²	0376 54	0376 43	0376 63
1·5 mm²	0376 55	0376 44	0376 64
2·5 mm²	0376 56	0376 45	0376 66

(1) For 'Starfix' tool not 'S' type

■ Toolbox for on site use

Metal toolbox with compartments, removable tray, designed to carry wiring accessories :

- Starfix
- CAB 3



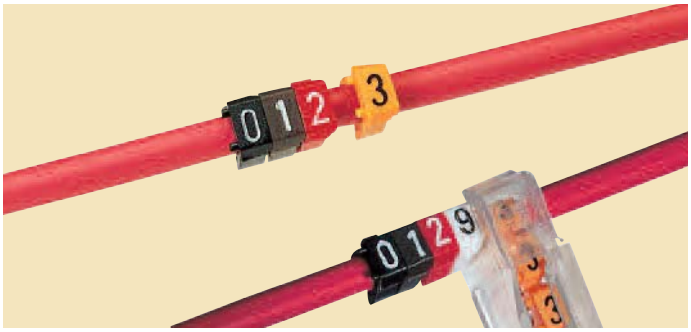
0382 00

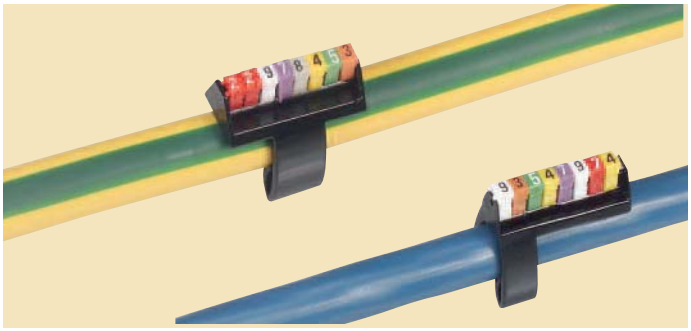
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

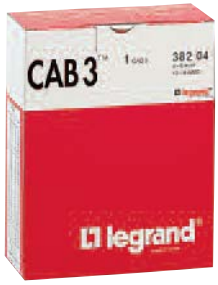
On your marks...

Cab 3 offers a high quality solution to multiple cable and terminal marking requirements. Universal fittings enable clear, rapid marking and simple modification during cabling.









... Get set, go!

CAB 3 is also available in starter packs that offer a complete "one box" solution for your cable marking needs

FEATURES

- Available in 3 marker widths : 5, 6 and 8 mm
- Numbers from 1 to 500
- Ideal for use with Viking 3 terminal blocks
- Terminal marking can be done before or after connection
- Marker colours are international for instant recognition

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

CAB 3® marking system
for cables and Viking 3 terminal blocks





Clip directly on to Viking 3 terminal blocks or use the applicator tool for quick installation on cables

CAB 3® marking system
for cables



Perfect alignment of markers due to side-clipping design

Markers for cables cross-section 0·15 to 0·5 mm² and 0·5 to 1·5 mm² and terminal blocks (4 markers max.)

Pack(1) 0·15 to 0·5	Pack(1) 0·5 to 1·5	Cat. Nos. 0·15 to 0·5²	Cat. Nos. 0·5 to 1·5²
1000	1200	0381 00	0382 10
1000	1200	0381 01	0382 11
1000	1200	0381 02	0382 12
1000	1200	0381 03	0382 13
1000	1200	0381 04	0382 14
1000	1200	0381 05	0382 15
1000	1200	0381 06	0382 16
1000	1200	0381 07	0382 17
1000	1200	0381 08	0382 18
1000	1200	0381 09	0382 19

Numbers : international colour code(2)

0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White



0381 06



0382 12

Letters(2)
Black marking on yellow background

300	0381 10	0383 00
300	0381 11	0383 01
300	0381 12	0383 02
300	0381 13	0383 03
300	0381 14	0383 04
300	0381 15	0383 05
300	0381 16	0383 06
300	0381 17	0383 07
300	0381 18	0383 08
300	0381 19	0383 09
300	0381 20	0383 10
300	0381 21	0383 11
300	0381 22	0383 12
300	0381 23	0383 13
300	0381 24	0383 14
300	0381 25	0383 15
300	0381 26	0383 16
300	0381 27	0383 17
300	0381 28	0383 18
300	0381 29	0383 19
300	0381 30	0383 20
300	0381 31	0383 21
300	0381 32	0383 22
300	0381 33	0383 23
300	0381 34	0383 24
300	0381 35	0383 25

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



0381 28



0383 17

Conventional symbols(2)
Black marking on yellow background

300	0381 40	0382 70
300	0381 41	0382 71
300	0381 42	0382 72
300	0381 43	0382 73
300	0381 44	0382 74
300	0381 45	0382 75
300	0381 46	0382 76

/ • + – ~ ⎓ ⏚



0381 43



0382 72

Markers for cables cross-section 1·5 to 2·5 mm² and terminal blocks

1·5 to 2·5	Cat. Nos. 1·5 to 2·5²
240	0381 60
240	0381 61
240	0381 62
240	0381 63
240	0381 64
240	0381 65

Numbers
Black marking on white background

01 to 20	
21 to 40	
41 to 60	
61 to 80	
81 to 100	
Blank	



0381 64

(1) Up to 0·5mm² : In strips of 25
From 0·5mm² to 2·5mm² : In strips of 30
Above 2·5mm² : In strips of 20
(2) Use CAB 3 markers (up to 1·5 mm²) on Viking 3 terminal blocks
Terminal accept up to 4 markers or 7 markers with accessory Cat. No. 0383 92

Markers for cables cross-section 1·5 to 2·5 mm² and 4 to 6 mm²

Pack(1) 1·5 to 2·5²	Pack(1) 4 to 6²	Cat. Nos. 1·5 to 2·5²	Cat. Nos. 4 to 6²
1 200	800	0382 20	0382 30
1 200	800	0382 21	0382 31
1 200	800	0382 22	0382 32
1 200	800	0382 23	0382 33
1 200	800	0382 24	0382 34
1 200	800	0382 25	0382 35
1 200	800	0382 26	0382 36
1 200	800	0382 27	0382 37
1 200	800	0382 28	0382 38
1 200	800	0382 29	0382 39

Numbers : international colour code

0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Grey
9	White



0382 26



0382 32

Letters
Black marking on yellow background

300	0383 30	0383 60
300	0383 31	0383 61
300	0383 32	0383 62
300	0383 33	0383 63
300	0383 34	0383 64
300	0383 35	0383 65
300	0383 36	0383 66
300	0383 37	0383 67
300	0383 38	0383 68
300	0383 39	0383 69
300	0383 40	0383 70
300	0383 41	0383 71
300	0383 42	0383 72
300	0383 43	0383 73
300	0383 44	0383 74
300	0383 45	0383 75
300	0383 46	0383 76
300	0383 47	0383 77
300	0383 48	0383 78
300	0383 49	0383 79
300	0383 50	0383 80
300	0383 51	0383 81
300	0383 52	0383 82
300	0383 53	0383 83
300	0383 54	0383 84
300	0383 55	0383 85

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z



0383 46



0383 79

Conventional symbols
Black marking on yellow background

300	0382 80	0382 90
300	0382 81	0382 91
300	0382 82	0382 92
300	0382 83	0382 93
300	0382 84	0382 94
300	0382 85	0382 95
300	0382 86	0382 96

/ • + – ~ ⎓ ⏚



0382 82



0382 94

Accessories (p. 451)

- **Label holders**
- **Applicators**

(1) Up to 0·5mm² : In strips of 25
From 0·5mm² to 2·5mm² : In strips of 30
Above 2·5mm² : In strips of 20

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

CAB 3® marking system

for cables and Viking 3 terminal blocks
(markers 0·15 mm² to 0·5 mm² and 0·5 mm² to 1·5 mm²)



0382 00



Dispenser 0382 08
with markers (not supplied)

Pack	Cat. Nos.	Marker holders for cables
		For cables cross-section from 10 to 70 mm² Can accept a maximum of 8 markers or 2 x 2 digit number from 0·5 to 1·5 mm² or 1·5 to 2·5 mm² Colour : black Material : polyamide 6/6
100	0384 90	10 to 16 mm² cross-section
50	0384 91	25 to 35 mm² cross-section
50	0384 92	50 to 70 mm² cross-section



0384 90 0384 91

Pack	Cat. Nos.	Marker holder for terminals
		Clips on to Viking 3 terminal blocks and holds :
100	0383 92	7 markers from 0·15 mm² to 0·5 mm² 6 markers from 0·5 mm² to 1·5 mm²



0383 92

Pack	Cat. Nos.	Applicators	For markers cross-section (mm²)	Colour coded applicator for identification of cross-section
		Transparent : immediate identification of markers For rapid selection and application of markers on to cable		
10	0383 94		0·15 to 0·5	CAB 3
10	0383 95		0·5 to 1·5	CAB 3
10	0383 96		1·5 to 2·5	CAB 3
10	0383 97		4 to 6	CAB 3

Pack	Cat. Nos.	CAB 3 starter packs
		For cables with cross-sections :
1	0382 01	0·15 to 0·5 mm² : 2 500 markers + 10 applicators (250 each of numbers 0 to 9)
1	0382 02	0·5 to 1·5 mm² : 3 000 markers + 10 applicators (300 each of numbers 0 to 9)
1	0382 03	1·5 to 2·5 mm² : 3 000 markers + 10 applicators (300 each of numbers 0 to 9)
1	0382 04	4 to 6 mm² : 2 000 markers + 10 applicators (200 each of numbers 0 to 9)



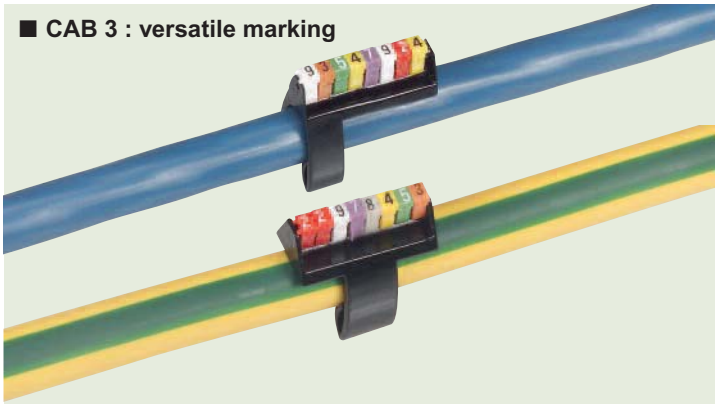
Pack	Cat. Nos.	On site case
		For CAB 3 marking system, Starfix ferrules, etc.
1	0382 00	Markers not supplied. Fitted with removable tray for applicators and markers Size : height 85 mm, width 450 mm, depth 280 mm Metal, can be padlocked

Pack	Cat. Nos.	CAB 3 marker dispenser
1	0382 08	Markers not supplied. Comprises 4 dual-purpose stacking trays for : • dispensing markers in strips for immediate application • on-the-spot storage of markers boxes size : height 450 mm, width 255 mm, depth 300 mm • can be wall mounted. Several dispensers can be fitted side by side

CAB 3® marking system

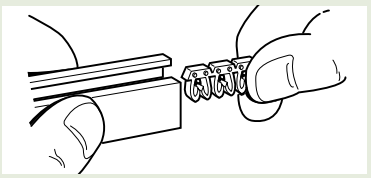
for cables and Viking 3 terminal blocks
(markers 0·15 mm² to 0·5 mm² and 0·5 mm² to 1·5 mm²)

■ CAB 3 : versatile marking

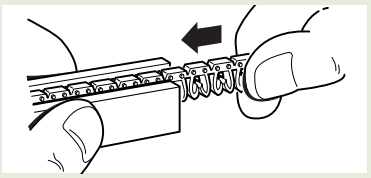


CAB 3 markers can be applied at any time, even after wiring has been completed :
- immediate rapid application with the applicator
- side clipping design ensures precise alignment
- fix tightly to the cable
- can be made up in advance
- international colour code

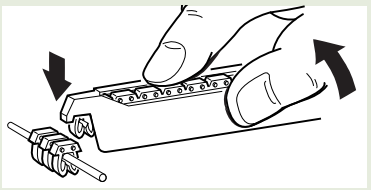
■ Loading and application of CAB 3



Select applicator and markers



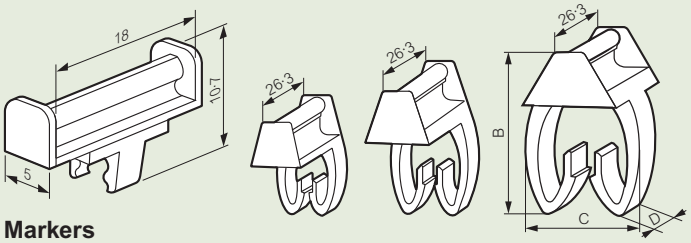
Load marker into applicator



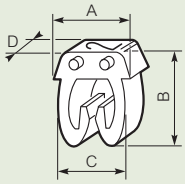
Application on to cable

■ Dimensions of holders and markers

Marker holders Cat. Nos. 0383 92 and 0384 90/91/92



Markers



Dimensions	Cable cross-section (mm²)						
	0·15 to 0·5	0·5 to 1·5	1·5 to 2·5	4 to 6	10 to 16	25 to 35	50 to 70
A (mm)	5	5	5·6	8	–	–	–
B (mm)	5·05	6·4	7·6	9·6	18	24·5	27·2
C (mm)	3·7	4·3	4·9	7·1	8·9	12·2	17·2
D (mm)	2·3	3	3	3	7	7	10
Ø min./max. (mm)	0·8/2·2	2·2/3	2·8/3·8	4·3/5·3	6·3/7·4	8·5/10·2	11/14

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Colring® cable ties



0320 15/37/22/24



0320 42 supplied in blister pack



0320 65



0320 70



0320 72



0320 88

Technical information (p. 453)

Pack	Cat. Nos.	Colring cable ties with internal teeth					
		Polyamide 6/6 colourless					
		Blister packing					
		Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)	
1000/10000	0320 30	2·4	95	18	1·6	0·26	
1000/10000	0320 31	2·4	140	33	1·6	0·37	
1000/6000	0320 32	2·4	180	46	1·6	0·47	
1000	0320 37	3·5	140	33	1·6	0·57	
1000	0320 38	3·5	180	46	1·6	0·73	
100/2000	0320 39	3·5	280	77	1·6	1·13	
100	0320 40	3·5	360	102	1·6	1·46	
1000/4000	0320 42	4·6	180	46	1·6	1·20	
100/2000	0320 43	4·6	280	77	1·6	1·88	
		Polyamide 6/6 black					
		High temperature UV protected Blister packing					
100	0320 12	2·4	95	18	1·6	0·26	
100	0320 15	3·5	140	33	1·6	0·57	
100	0320 22	4·6	180	46	1·6	1·20	
100	0320 24	4·6	360	102	1·6	2·38	

		Accessories
		Self-adhesive bases
100/2000	0320 65	For ties up to 4·6 mm max. width Colourless
		Screw mounting bases
1000	0320 70	For ties 4·6 mm max. width Central fixing (screw Ø 4 mm)
100	0320 72	For ties all widths Central fixing (screw Ø 5 mm)

		Tool for Colring ties
		Max. width 4·6 mm Direct adjustment of clamping tension by using the milled screw at the base of the handle After clamping, a blade automatically cuts the surplus length close to the head without leaving a burr
1	0320 88	P 46 tool for cable ties max. width 4·6 mm

Colson® cable ties



0319 16



0319 50



0319 55



0319 96

Technical information (p. 453)

Pack	Cat. Nos.	Colson cable ties					
		Ultra-violet (U.V.) resistant cable ties External teeth Black polyamide 12					
		Width (mm)	Flat length (mm)	Max. Ø grip capacity (mm)	Min. Ø grip capacity (mm)	Weight (g)	
100/1000	0319 13	9	185	42	10	3·2	
100/1000	0319 16	9	265	62	26	4·7	
100/1000	0319 19	9	355	92	26	6·9	
100/500	0319 20	9	500	140	74	12·7	
100	0319 21	9	750	220	74	16·9	
100	0319 22	6	119	25	4	1·6	
100/1000	0319 25	6	180	45	10	2·0	

		Accessories
	Black	**Screw-on base for ties max. width 9 mm**
100	0319 50	Height : 12 mm for cartridge-fired stud and rag-bolt Ø 6·35 and 7 and countersunk screws Ø 5 mm
		Wall plug bases Ø 8 mm drilling
100/1000	0319 55	Standard
		Tool for Colson ties
1/10	0319 96	Black and red finish Allows tightening and trimming of Colson ties

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Colring® and Colson® cable ties

■ Technical data - all cable ties

Conform to EN 50146

Type	Colring colourless(4)	Colring black(4)	Colson black
UV protection	no	yes	yes
Polyamide material	6/6	6/6	12
Teeth	internal or external	internal	external
Halogen free(1)	yes	yes	yes
Humidity absorbtion(2)	2·5 %	2·5 %	<0·7 %
Operating temperature			
- 20,000 hrs	85 °C	105 °C	85 °C
- 1,000 hrs	100 °C	120 °C	100 °C
Resistance to low tempratures			
- fitted	–15 °C	–15 °C	–40 °C
- assembly	–10 °C	0 °C	–30 °C
Flame retardancy	UL 94 V2	UL 94 V2	UL 94 HB
Oxygen index (LOI) (EN ISO 4589-1/ASTM D 2863-00)	28·5 %	26 %	20 %
Self-extinguishing(3)	850 °C	850 °C	650 °C

(1) Conform to Class I ASTM D 4066 (Class 2 for Colring black)
(2) Conform to ISO 62 (EH 0-23 °C
(3) Conform to IEC 60695-2-12 for Colring, IEC 60695-2-11 for Colson
(4) Conform to UL 1565, SAE-AS 33671

■ Technical data - Colring

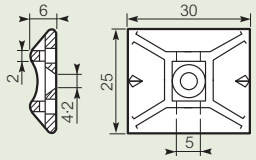
Good resistance to bases, oils, greases and petroleum products
Limited resistance to acids, sensitive to mineral acids and no resistance to phenol

Cable ties Polyamide 6/6		Max. rachet force max (daN)	Tensile strength	
			According to EN 50146	
Colourless Non U.V. protected	Black High temperature U.V. protected		Test dia. (mm)	Min. guaranteed strength (daN)
0320 30	0320 12	0·50	18	8·0
0320 31		0·50	20	8·0
0320 32		0·50	20	8·0
0320 37	0320 15	0·50	20	13·0
0320 38		0·50	20	13·0
0320 39		0·50	20	13·0
0320 40		0·50	20	13·0
0320 42	0320 22	0·50	20	22·0
0320 43		0·50	20	22·0
	0320 24	0·50	20	22·0

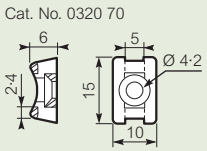
■ Dimensions

Accessories for Colring

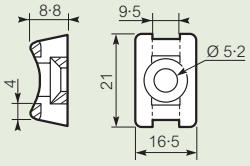
Cat. No. 0320 65



Cat. No. 0320 70

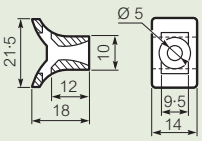


Cat. No. 0320 72

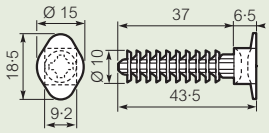


Accessories for Colson

Cat. No. 0319 50



Cat. No. 0319 55



■ Technical data - Colson

Constant high quality Colson

Type tests
- Raw material test
- Product test on the production line and in the laboratory
- Packaging test

Resistance to external agents



- Good resistance to oils, greases, petroleum products, saline mist and diluted acids

Resistance to rain



- Humidity absorption: ≤0·7%

Resistance to low temperatures



- Assembly –30 °C
- Fitted –40 °C

Resistance to sun



Maximum temperatures :
- 85 °C continuous
- 100 °C @ 1000 hrs
- UV resistant

Colson approvals

Oxygen index : EN ISO 4589-1 and ASTM D 2863-00, 20 %
Corrosiveness of fumes : NFC 20-453, < 5 %
Flame retardancy : UL 94 HB

Colson traceability

Each Colson cable tie can be identified, underlining Legrand's commitment to the consumer, so that you can always be sure you are using a genuine Colson

Tensile strength (according to EN 50146)

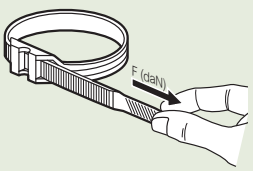
Test conditions

- Temperature 23 °C
- Relative humidity of air 50 %
- Traction speed 25·4 mm/mn
- Time of flame application : 10 sec

Quality of tensile strength

Cat. Nos.	Diagram (A) - Max. ratchet force max (daN)	Diagram (B) - Tensile strength	
		Test dia. (mm) According to EN 50146	Min. strength (daN)
0319 13	4	20	36
0319 16	5	26	53
0319 19	5	26	53
0319 20	5·5	74	53
0319 21	5·5	74	53
0319 22	4	20	22
0319 25	4	20	22

(A)



(B)



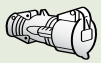
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Industrial plugs, sockets and combined units

Hypra® IP 44


P. 456 Panel and surface mounting sockets ELV 16 A and LV 16 to 63 A


P. 456 Straight and angled plugs ELV 16 A and LV 16 to 63 A


P. 457 Mobile sockets ELV 16 A and LV 16 to 63 A


P. 457 Panel and surface mounting appliance inlets LV 16 to 63 A


P. 462 Dimensions

Hypra® Prisinter IP 44/55


P. 458 Prisinter sockets LV 16 A


P. 459 Prisinter sockets and mobile sockets LV 32 A

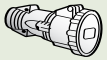

P. 459 Prisinter sockets and mobile sockets LV 16 to 63 A

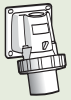

P. 461 Dimensions

Hypra® IP 66/67-55 IP 66/67


P. 460 Panel and surface mounting sockets LV 16 to 125 A


P. 460 Straight plugs LV 16 to 125 A


P. 460 Mobile sockets LV 16 to 125 A

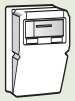

P. 460 Panel and surface mounting appliance inlets LV 16 to 63 A


P. 463 Dimensions

Hypra® combined units


P. 469 IP 44 combined units 16 to 63 A

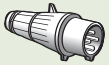

P. 470 IP 66/67-55 IP 66/77 combined units LV 16 to 63 A

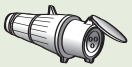

P. 470 Undrilled empty boxes with window


P. 471 Dimensions

P 17 Tempra® IP 44


P. 475 Surface and panel mounting sockets ELV 16 A and LV 16 and 32 A


P. 475 Straight plugs ELV 16 A and LV 16 and 32 A

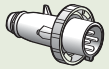

P. 475 Mobile sockets ELV 16 A and LV 16 and 32 A

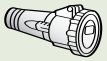

P. 475 Appliance inlets ELV 16 A and LV 16 and 32 A

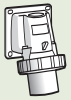

P. 476 Dimensions

P 17 Tempra® IP 66/67


P. 475 Surface and panel mounting sockets LV 16 to 125 A


P. 475 Straight plugs LV 16 to 125 A

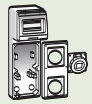

P. 475 Mobile sockets LV 16 to 125 A


P. 475 Appliance inlets LV 16 to 125 A


P. 479 Dimensions

P 17 Tempra® combined units


P. 482 Surface mounting IP 44, IP 55, IP 66 LV 16 to 63 A


P. 483 Self-assembly IP 44, IP 55 IP 66/67 LV 16 to 63 A


P. 484 Dimensions


P. 486 Plugs and sockets pin configurations

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44 metal, plastic and rubber plugs and sockets

ELV 16 A and LV 16/32/63 A

Conform to :
IEC 60309-1-2, CEE 17
IK 09 plastic and rubber
IK 10 metal
Self-extinguishing : 850 °C
insulated parts (650 °C housing)
Stainless steel external screws
Temp. rating : –50 °C to +100 °C
(–20 °C for Prisinter)
ISO entries :
16 A = M20
32 A = M25
63 A = 2 x M25 + 1 x M20

Technical information and dimensions (p. 461-468)



Panel mounting sockets inclined



Surface mounting sockets inclined[2]



Through wiring surface mounting sockets[2]



Straight plugs



Angled plugs



Mobile sockets



(Supplied without cover)

Panel appliance inlets



Surface mounting appliance inlets[1]

ELV			METAL	PLASTIC	MODULAR[1] PLASTIC	METAL	PLASTIC	PLASTIC	PLASTIC	RUBBER	METAL	PLASTIC	RUBBER	PLASTIC	RUBBER	METAL	PLASTIC	METAL	PLASTIC
20 to 25 V 50/60 Hz	16 A	2 P		0524 01			0524 01+ 0524 19		0524 21				0524 41	0524 61	0524 81				
		3 P		0524 02			0524 02+ 0524 19		0524 22				0524 42	0524 62					
20 to 50 V D.C. ⎓	16 A	2 P		0524 05			0524 05+ 0524 19		0524 25				0524 03		0524 85				
LV																			
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	0519 30	0519 20	0519 19	0519 30+ 0520 39	0519 20+ 0520 29	0519 20+ 0520 89	0519 40					0519 80			0519 70		0519 70+ 0520 79
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	0520 32	0520 22	0520 18	0520 32+ 0520 39	0520 22+ 0520 29	0520 22+ 0520 89	0520 42		0520 72	0520 62	0521 52	0520 82	0520 92	0521 62	0521 72	0521 62+ 0520 69	0521 72+ 0520 79
		3 P + ⏚		0520 23	0520 19	0520 33+ 0522 39	0520 23+ 0522 29	0520 23+ 0522 89	0520 43					0520 83	0520 93		0520 73		0520 73+ 0522 79
		3 P + N + ⏚		0520 24	0520 20	0520 34+ 0522 39	0520 24+ 0522 29	0520 24+ 0522 89	0520 44			0520 64			0520 94				
	32 A	2 P + ⏚	0527 32		0527 18	0527 32+ 0529 39	0527 18+ 0529 40	0527 18+ 0529 90	0527 42		0527 72	0527 62		0527 82	0527 92	0528 62	0528 72	0528 62+ 0529 69	0528 72+ 0529 79
		3 P + ⏚			0527 19	0527 33+ 0529 39	0527 19+ 0529 40	0527 19+ 0529 90	0527 43			0527 63		0527 83	0527 93				
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	0522 33	0522 23	0522 19	0522 33+ 0522 39	0522 23+ 0522 29	0522 23+ 0522 89	0522 43	0522 53	0522 73	0522 63	0521 53	0522 83	0522 93	0521 63	0521 73	0521 63+ 0522 69	0521 73+ 0522 79
		3 P + N + ⏚	0522 34	0522 24	0522 20	0522 34+ 0522 39	0522 24+ 0522 29	0522 24+ 0522 89	0522 44	0522 54	0522 74	0522 64	0521 54	0522 84	0522 94	0521 64	0521 74	0521 64+ 0522 69	0521 74+ 0522 79
	32 A	3 P + ⏚	0529 33		0529 19	0529 33+ 0529 39	0529 19+ 0529 40	0529 19+ 0529 90	0529 43	0529 53		0529 63	0528 53	0529 83	0529 93	0528 63	0528 73	0528 63+ 0529 69	0528 73+ 0529 79
		3 P + N + ⏚	0529 34		0529 20	0529 34+ 0529 39	0529 20+ 0529 40	0529 20+ 0529 90	0529 44	0529 54	0529 74	0529 64	0528 54	0529 84	0529 94	0528 64	0528 74	0528 64+ 0529 69	0528 74+ 0529 79
	63 A	3 P + ⏚	0538 33	0538 23		0537 33	0537 23	0538 23+ 0538 89	0538 43		0538 73		0538 63	0538 83	0538 93	0537 63	0537 73	0537 63+ 0538 69	0537 73+ 0538 79
		3 P + N + ⏚	0538 34	0538 24		0537 34	0537 24	0538 24+ 0538 89	0538 44		0538 74		0538 64	0538 84	0538 94	0537 64	0537 74	0537 64+ 0538 69	0537 74+ 0538 79

For voltages/arrangements not listed in this table, please contact us on 0845 605 4333

(1) 70 x 70 mm fixing centres
(2) Order both Cat. Nos. for surface mounting units
For pack quantities, please refer to our current Legrand trade price list

Hypra® IP 44/55 Prisinter

LV 16/32/63 A







Prisinter[2]

			Panel mounting sockets		Surface mounting sockets[1]		Mobile Prisinter	Auxiliary c/o contact microswitch
			METAL	PLASTIC	METAL	PLASTIC	RUBBER/ PLASTIC	
LV								
100 to 130 V 50/60 Hz	16 A	2 P + ⏚		0519 10		0519 10+ 0520 49		
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	0520 12	0520 02	0520 12+ 0520 59	0520 02+ 0520 49		0521 96[3]
		3 P + ⏚		0520 03		0520 03+ 0520 49		0521 96[3]
		3 P + N + ⏚		0520 04		0520 04+ 0522 49		0521 96[3]
	32 A	2 P + ⏚		0527 02		0527 02+ 0529 49	0527 05	0521 96[3]
		3 P + ⏚	0527 13	0527 03	0527 13+ 0522 59	0527 03+ 0529 49	0527 06	0521 96[3]
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	0522 13	0522 03	0522 13+ 0520 59	0522 03+ 0520 49		0521 96[3]
		3 P + N + ⏚	0522 14	0522 04	0522 14+ 0529 59	0522 04+ 0522 49		0521 96[3]
	32 A	3 P + ⏚	0529 13	0529 03	0529 13+ 0522 59	0529 03+ 0529 49	0529 06	0521 96[3]
		3 P + N + ⏚	0529 14	0529 04	0529 14+ 0522 59	0529 04+ 0529 49	0529 07	0521 96[3]
	63 A	3 P + ⏚	0538 00	0536 03	0538 00+ 0538 09	0536 03+ 0537 49	0537 06	0521 96[3]
		3 P + N + ⏚	0538 01	0536 04	0538 01+ 0538 09	0536 04+ 0537 49	0537 07	0521 96[3]

ACCESSORIES

Appliance inlet covers[4]

Conform to BS EN 60309-1/60309-2
Material : Rubber
Self-extinguishing : 650 °C
Temp. rating : –20 °C to +40 °C

Adaptor[4]

Conforms to BS EN 60309-1/60309-2
Self-extinguishing : 850 °C
Temp. rating : –15 °C to +40 °C

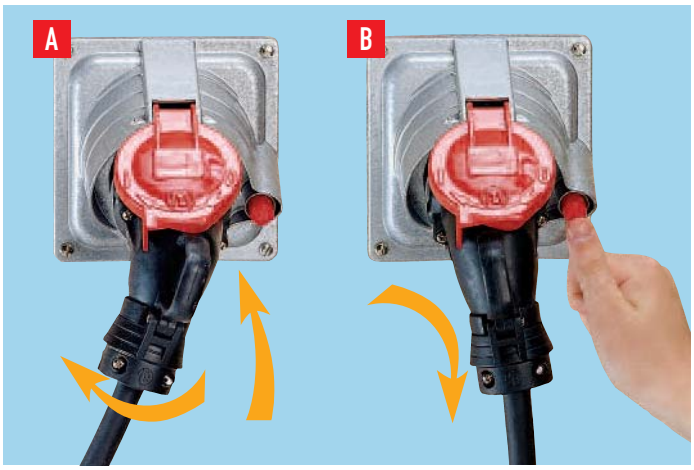
		Appliance inlet covers		Adaptor	
		Pack	Cat. Nos.	Pack	Cat. No.
16 A	2 P + ⏚	10	0521 25		
	3 P + ⏚	5	0521 26		
	3 P + N + ⏚	5	0521 27		
32 A	2 P + ⏚	5	0521 27		
	3 P + ⏚	5	0521 27		
	3 P + N + ⏚	5	0527 99		
63 A	2 P + ⏚	5	0536 99		
	3 P + ⏚	5	0536 99		
	3 P + N + ⏚	5	0536 99		
16 A – 230 V	IEC 2 P + ⏚ plug – 13 A 2 P + ⏚ B.S. socket			10	0521 01

(1) Order both Cat. Nos. for surface mounting units
(2) Index of protection and switching capacity, see p. 461
(3) Late make early break c/o contact for LV only : (for ELV please contact us on 0845 605 4333)
(4) See p. 478 for dimensions

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Take a load off your mind

Prisinter's "on-load" breaking facility isolates power immediately and offers complete reassurance. The covers are padlockable for increased safety and offer an IP 55 rating when closed. A complete range is available with options in metal, plastic and rubber.



A Insert plug and turn clockwise to switch on
B Push button to switch off and release



Reversible entry boxes convert panel mounting sockets into surface mounting sockets whilst plugs have a cable gland and separate cable support clamp. Prisinter also offers stainless steel fixings and plated contact tubes and pins.

FEATURES

- Unique, compact and durable isolator socket outlets
- Available with 16 A, 32 A and 63 A ratings
- Interlocked load break disconnect at the push of a button
- Surface, panel mounting and mobile versions available
- Provision for two auxiliary changeover contact switches per socket for signalling or switching a contactor
- Padlockable covers provide increased safety and offer an IP 55 rating when closed

Hypra® IP 44/55 - LV 16 A

Prisinter - interlocked switched sockets



0520 02



0522 13



0522 49

Technical information and dimensions (p. 461)

IP 44 when plug inserted
IP 55 with cover closed or used with IP 66/67-55 angled plugs
Stainless steel screws

Prisinter panel mounting sockets

Load break disconnect at the push of the button
Accepts Ø6 mm padlock with cover closed
Terminals accept 1·5 mm² to 4 mm² rigid cable (IEC 60309.1)
Possibility to fit 2 auxiliary C/O contacts Cat. Nos. 0521 96

Pack	Cat. Nos. Metal	Cat. Nos. Plastic	
			200/250 V~
1		0520 02	2 P + ⏚
1		0520 03	3 P + ⏚
1		0520 04	3 P + N + ⏚
			380/415 V~
1	0522 13	0522 03	3 P + ⏚
1	0522 14	0522 04	3 P + N + ⏚

Surface mounting boxes

Reversible entry box with 3 x M20 entries with 2 blanking plugs plus rear knockout entries

Pack	Cat. Nos. Metal	Cat. Nos. Plastic	
1		0520 49	For 2 P + ⏚ / 3 P + ⏚ sockets
1	0529 59	0522 49	For 3 P + N + ⏚ sockets

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44/55 - LV 32 A
Prisinter - interlocked switched sockets



0529 13



0529 04 + 0529 49



0529 06

Technical information and dimensions (p. 461)

IP 44 when plug inserted
IP 55 with cover closed or used with IP 66/67-55 angled plugs

Pack	Cat. Nos.		
	Metal	Plastic	**Prisinter panel mounting sockets** Load break disconnect at the push of the button Accepts Ø6 mm padlock with cover closed Terminals accept 2·5 mm² to 10 mm² rigid cable (IEC 60309.1) Possibility to fit 2 auxiliary C/O contacts Cat. Nos. 0521 96
			200/250 V∿
1		0527 02	2 P + ⏚
1		0527 03	3 P + ⏚
			380/415 V∿
1	0529 13	0529 03	3 P + ⏚
1	0529 14	0529 04	3 P + N + ⏚

	Metal	Plastic	**Surface mounting boxes** Reversible entry box with 2 x M25 and 1 x M20 entries with 1 x M25 and 1 x M20 blanking plugs plus rear knockout entries
1	0522 59	0529 49	For 2 P + ⏚ / 3 P + ⏚ / 3 P + N + ⏚ sockets

	Rubber/Plastic	**Prisinter mobile sockets** Load break disconnect at the push of the button, at the end of an extension lead Accepts Ø6 mm padlock with cover closed Terminals accept 2·5 mm² to 6 mm² flexible cable (IEC 60309.1)
		200/250 V∿
1	0527 05	2 P + ⏚
		380/415 V∿
1	0529 06	3 P + ⏚
1	0529 07	3 P + N + ⏚

Hypra® IP 44/55 - LV 63 A
Prisinter - interlocked switched sockets



0538 00 + 0538 09



0537 06

Technical information and dimensions (p. 461)

IP 44 when plug inserted
IP 55 with cover closed or used with IP 66/67-55 angled plugs

Pack	Cat. Nos.		
	Metal	Plastic	**Prisinter panel mounting sockets** Load break disconnect at the push of the button Accepts 3 x Ø8 mm padlocks with cover closed IP 2x protection against direct contact Terminals accept 6 mm² to 25 mm² rigid cable Possibility to fit 2 auxiliary C/O contacts Cat. Nos. 0521 96
			200/250 V∿
1	0538 00	0536 03	3 P + ⏚
1	0538 01	0536 04	3 P + N + ⏚

	Metal	Plastic	**Surface mounting boxes** Reversible entry box with 2 x M32 and 1 x M20 entries with 1 x M32 and 1 x M20 blanking plugs
1	0538 09	0537 49	For 3 P + ⏚ / 3 P + N + ⏚ sockets

	Rubber/Plastic	**Prisinter mobile sockets** Load break disconnect at the push of the button, at the end of an extension lead Accepts 3 x Ø8 mm padlocks with cover closed Terminals accept 6 mm² to 16 mm² flexible cable
		380/415 V∿
1	0537 06	3 P + ⏚
1	0537 07	3 P + N + ⏚

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 66/67-55 and IP 66/67 plastic plugs and sockets

LV 16/32/63/125 A

IP 66/67-55 - LV 16 AND 32 A

Conform to :
IEC 60309-1-2, CEE 17
IK 09
Self-extinguishing : 850 °C for insulated parts (650 °C housing)
Stainless steel external screws
Temp. rating : –50 °C to +100 °C
ISO entries :
16 A = M20
32 A = M25








Technical information and dimensions (p. 463-467)

			Panel mounting sockets inclined	modular[1]	Surface mounting sockets inclined[2]	Through wire surface mounting sockets[2]	Straight plugs	Mobile sockets	Surface appliance inlets
		LV							
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	0511 25		0511 25 + 0520 29	0511 25 + 0520 89	0511 55	0511 75	
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	0511 26	0511 46	0511 26 + 0520 29	0511 26 + 0520 89	0511 56	0511 76	0511 86
	32 A	2 P + ⏚		0530 46	0530 46 + 0529 40	0530 46 + 0529 90	0530 56	0530 76	
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	0511 30	0511 50	0511 30 + 0522 29	0511 30 + 0522 89	0511 60	0511 80	
		3 P + N + ⏚	0511 31	0511 51	0511 31 + 0522 29	0511 31 + 0522 89	0511 61	0511 81	0511 91
	32 A	3 P + ⏚		0530 50	0530 50 + 0529 40	0530 50 + 0529 90	0530 60	0530 80	
		3 P + N + ⏚		0530 51	0530 51 + 0529 40	0530 51 + 0529 90	0530 61	0530 81	

IP 66/67 - LV 63 AND 125 A

Conform to :
IEC 60309-1-2, CEE 17
IK 09
Self-extinguishing : 850 °C for insulated parts (650 °C housing)
Stainless steel external screws
Temp. rating : –50 °C to +100 °C
63/125 A units have a pilot pin
ISO entries :
63 A = 3 x M25 + 1 x M20
125 A = 1 x M50 + 2 x M40 + 1 x M20





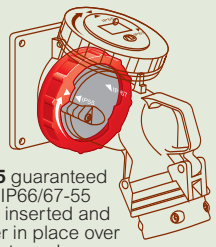




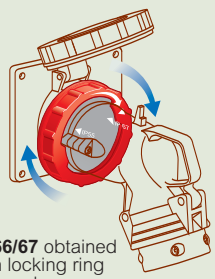
Technical information and dimensions (p. 463-467)

			Panel mounting sockets inclined	Surface mounting sockets[2]	Through wire surface mounting sockets[2]	Straight plugs	Mobile sockets	Panel appliance inlets straight	Surface appliance inlets
		LV							
380 to 415 V 50/60 Hz	63 A	3 P + ⏚	0538 27	0538 37	0538 27 + 0538 89	0538 47	0538 87	0537 77	
		3 P + N + ⏚	0538 28	0538 38	0538 28 + 0538 89	0538 48	0538 88	0537 78	
	125 A	3 P + ⏚	0591 12	0591 02		0591 22	0591 32	0591 42	0591 44
		3 P + N + ⏚	0591 13	0591 03		0591 23	0591 33	0591 43	0591 45

For voltages/arrangements not listed in this table, please contact us on 0845 605 4333



IP 55 guaranteed with IP66/67-55 plug inserted and cover in place over spigot on plug



IP 66/67 obtained with locking ring secured



IP 55 assured automatically with cover flap down without locking ring secured
IP 66/67 obtained with locking ring secured

(1) 70 x 70 mm fixing centres
(2) Order both Cat. Nos. for surface mounting units
For pack quantities, please refer to our current Legrand trade price list

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44/55
Prisinter LV 16/32/63 A

■ Technical information

Icc 10 kA according to IEC 60309-1

IP rating according to IEC 60529 :
IP 55 - cover closed
- connected with an angled plug IP 66/67-55
IP 44 - in all other cases

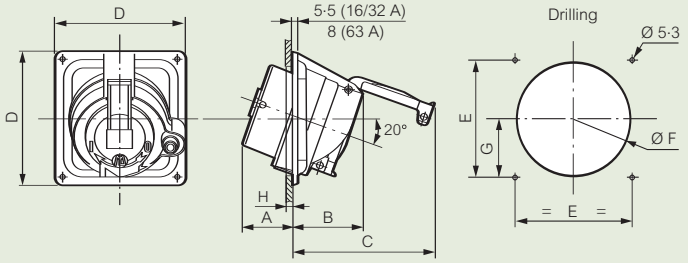
Hypra Prisinter breaking capacity at 3 x 400 V∿ according to IEC 60947-1-3 :

Category	16 A	32 A	63 A
AC 1	16 A	32 A	63 A
AC 23	8·4 kW	16.8 kW	33 kW
AC 3	8·4 kW	16.8 kW	33 kW

IK according to BS EN 62262
IK 09 : Plastic and rubber
IK 10 : Metal
–20 °C to + 100 °C (+80 °C with auxiliary fitted)
Stainless steel screws

■ Dimensions

Prisinter - inclined panel mounting IP 44/55 - LV 16/32/63 A
(p. 457-459)



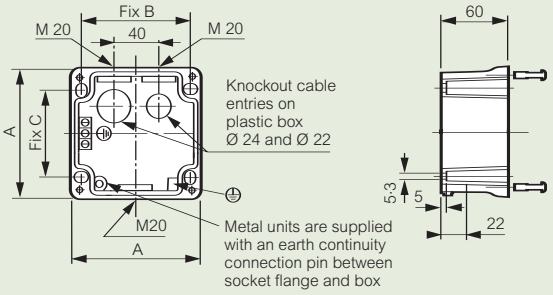
	Material	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm) min.	F (mm) max.	G (mm)	H (mm) max.
16 A											
2 P + ⏚	Plastic	0·42	46	70	132	115	100	92	98	46	6 to 10
	Metal	1·25									
3 P + ⏚	Plastic	0·48	46	70	138	115	100	92	96	46	6 to 10
	Metal	1·33									
3 P + N + ⏚	Plastic	0·57	46	75	156	125	110	102	106	51·5	7
	Metal	1·47									
32 A											
2 P + ⏚	Plastic	0·57	54	77	153	143	125	115	122	58·5	10 to 20
	Metal	1·47									
3 P + ⏚	Plastic	0·61	54	77	153	143	125	115	122	58·5	10 to 20
	Metal	1·5									
3 P + N + ⏚	Plastic	0·65	55	79	169	143	125	119	122	58·5	9 to 13
	Metal	1·8									
63 A											
2 P + ⏚	Plastic	0·87	55	99	205	143	125	120	122	59·5	10 to 20
	Metal	1·5									
3 P + ⏚	Plastic	0·95	55	99	205	143	125	120	122	59·5	10 to 20
	Metal	1·85									
3 P + N + ⏚	Plastic	0·98	55	99	205	143	125	120	122	59·5	10 to 20
	Metal	2·2									

Auxiliary contacts (–20 °C to + 80 °C)
Prisinter sockets can accommodate two c/o auxiliary contacts (late make/ early break) Cat. No. 0521 96. These may be used to signal to a central control/monitoring station or control a contactor to remove load
Padlockable cover in closed position

Hypra® IP 44/55
reversible boxes for Prisinter

■ Dimensions

LV 16 A (p. 458)

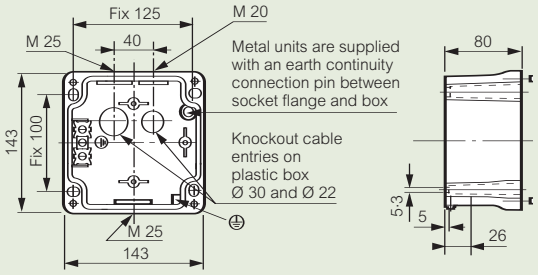


3 x M20 entries with 2 x M20 blanking plugs

Equipped with :
2 earth terminals inside and 1 external (metal box)
2 earth terminals inside (plastic box)

	Material	Weight (kg)	A (mm)	B (mm)	C (mm)
2 P + ⏚ **3 P + ⏚**	Plastic	0·14	115	97	78
	Metal	0·8			
3 P + N + ⏚	Plastic	0·16	125	107	88
	Metal	0·9			

LV 32 A (p. 459)

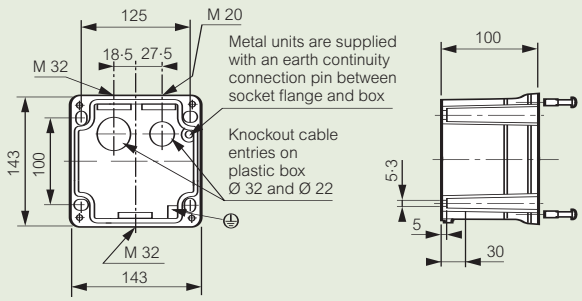


1 x M20 entry with 1 x M20 blanking plug
2 x M25 entries with 1 x M25 blanking plug

Equipped with :
2 earth terminals inside and 1 external (metal box)
1 earth terminal inside (plastic box)

Material	Weight (kg)
Plastic	0·3
Metal	0·07

LV 63 A (p. 459)



1 x M20 entry with 1 x M20 blanking plug
2 x M32 entries with 1 x M32 blanking plug

Material	Weight (kg)
Plastic	0·35
Metal	1·75

Equipped with external earth terminal on the metal box

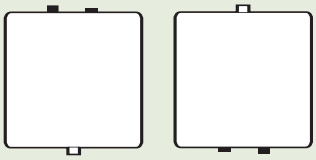
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44
reversible boxes for Prisinter (continued)

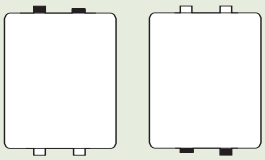
■ Box entries

Prisinter boxes can be rotated to aid entry

LV 16/32 A



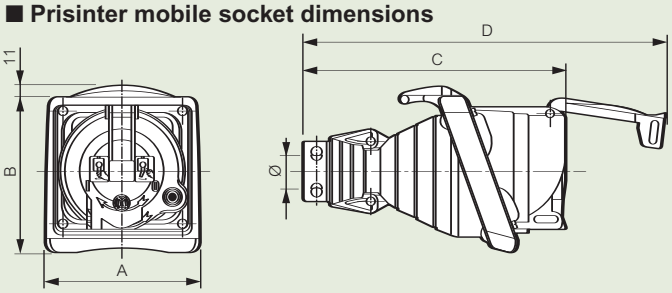
LV 63 A



■ Characteristics of Prisinter mobile sockets

LV 32/63 A (p. 459)
IP rating according to IEC 60529 :
IP 55 - cover closed
- connected with an angled plug IP 66/67-55
IP 44 - in all other cases
Prisinter breaking capacity (p. 486)

■ Prisinter mobile socket dimensions



	Weight (kg)	Dimensions (mm) A	B	C	D	Clamping and grip Ø (mm)
32 A						
2 P + ⏚	1·315	160	162	224	313	10 to 18
3 P + ⏚	1·350	160	162	224	313	12 to 22
3 P + N + ⏚	1·385					
63 A						
2 P + ⏚	1·735	160	162	274	377	16 to 26
3 P + ⏚	1·768	160	162	274	377	18·5 to 29
3 P + N + ⏚	1·800	160	162	274	377	20·5 to 32

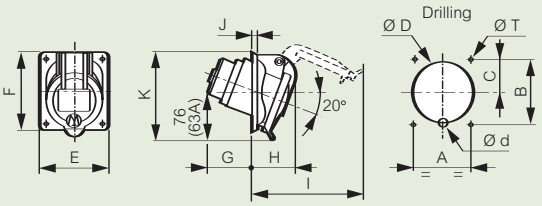
Hypra® IP 44
inclined panel mounting sockets from 16 to 63 A

■ Technical information :

IK 09 (plastic), IK 10 (metal) according to BS EN 62262
Contacts : nickel plated brass with stainless steel connection pins

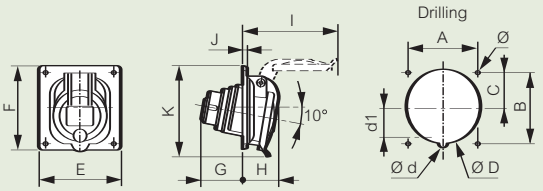
■ Dimensions

IP 44 - LV 16/32/63 A plastic and metal and ELV 16 A plastic (p. 456)



	Material	Weight (kg)	Drilling (mm) A	B	C	øD	ød	øT	Dimensions (mm) E	F	G	H	I	J	K
LV 16 A															
2 P + ⏚	Plastic	0·110	52	60	28	55	14·5	4·2	64	72	41	40	94	5·5	78·5
	Metal	0·340													
3 P + ⏚	Plastic	0·140	60	70	31	63·5	14·5	5·2	74	84	44	40	98	5·5	88
	Metal	0·405													
3P + N + ⏚	Plastic	0·165	60	70	33	70·6	–	5·2	80	84	44	44	110	5·5	93
	Metal	0·450													
LV 32 A															
2 P + ⏚	Metal	0·605	70	80	38	76·2	10	5·2	84	94	50	53	120	5·5	103
3 P + ⏚	Metal	0·605	70	80	38	76·2	10	5·2	84	94	50	53	120	5·5	103
3 P + N + ⏚	Metal	0·660	70	80	38	76·2	10	5·2	84	94	52	56	124	5·5	107
LV 63 A															
2 P + ⏚	Plastic	0·600	77	85	–	92	–	6·5	106	106	98	70	160	6	129
	Metal	0·950													
3 P + ⏚	Plastic	0·640	77	85	–	92	–	6·5	106	106	98	70	160	6	129
	Metal	1·000													
3P + N + ⏚	Plastic	0·700	77	85	–	92	–	6·5	106	106	98	70	160	6	129
	Metal	1·200													
ELV 16 A															
2 P	Plastic	0·120	52	60	30	55	–	4·2	64	72	33	47	94	5·5	78·5

IP 44 - LV 16/32 A plastic with modular fixings (p. 456)



	Weight (kg)	Drilling (mm) A	B	C	Ø D	Ø d	d1	Dimensions (mm) E	F	G	H	I	J	K	Ø
LV 16 A															
2 P + ⏚	0·110	70	70	35	76·2	–	–	84	84	37	36	89	4·5	88	4·2
3 P + ⏚	0·140	70	70	35	76·2	–	–	84	84	43	36	97	4·5	89	4·2
3 P + N + ⏚	0·165	70	70	35	76·2	–	–	84	84	43	37	106	4·5	91	4·2
LV 32 A															
2 P + ⏚	0·220	70	70	35	76·2	–	–	84	94	54	45	117	4·5	100	4·2
3 P + ⏚	0·220	70	70	35	76·2	–	–	84	94	54	45	117	4·5	100	4·2
3 P + N + ⏚	0·255	70	70	35	76·2	8	36	84	94	54	46	125	4·5	102	4·2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

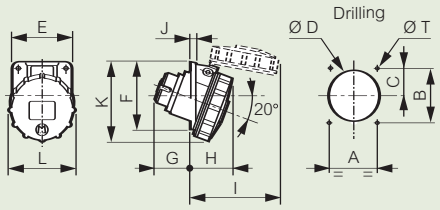
Hypra® IP 66/67 and IP 66/67-55
inclined panel mounting sockets from 16 to 125 A

■ Technical information

IP 66/67-55 and IP 66/67 conform to IEC 60529
Icc 10 kA according to IEC 60309-1
IK according to BS EN 62262 : metal = IK 10 - plastic = IK 09
Stainless steel external screws - nickel plated contacts

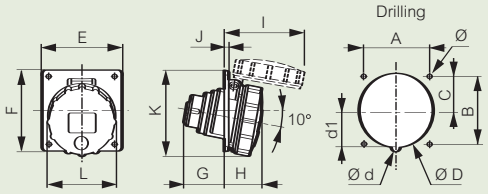
■ Dimensions

IP 66/67-55 - LV 16 A plastic (p. 460)



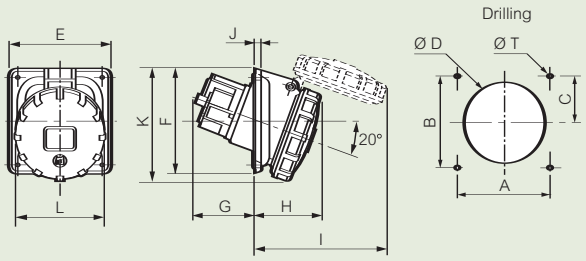
	Weight (kg)	Drilling (mm)					Dimensions (mm)							
		A	B	C	ØD	ØT	E	F	G	H	I	J	K	L
LV 16 A														
2 P + ⏚	0·140	52	60	33	55	4·2	64	72	40	45	91	5·5	87	72·5
3 P + ⏚	0·165	60	70	39	63·5	5·2	74	84	41	48	102	5·5	96	81
3 P + N + ⏚	0·195	60	70	37	70·6	5·2	80	84	42	50	106	5·5	96	86·5

IP 66/67-55 - LV 16/32 A plastic with modular fixings (p. 460)



	Weight (kg)	Drilling (mm)						Dimensions (mm)								
		A	B	C	Ø D	Ø d	d1	E	F	G	H	I	J	K	L	Ø
LV 16 A																
2 P + ⏚	0·140	70	70	35	76·2	–	–	84	84	42	39	83	4·5	90	72·5	4·2
3 P + ⏚	0·165	70	70	35	76·2	–	–	84	84	43	41	98	4·5	93	81	4·2
3 P + N + ⏚	0·195	70	70	35	76·2	–	–	84	84	43	41	99	4·5	91	86·5	4·2
LV 32 A																
2 P + ⏚	0·240	70	70	35	76·2	–	–	84	94	54	50	113	4·5	101	94·5	4·2
3 P + ⏚	0·240	70	70	35	76·2	–	–	84	94	54	50	113	4·5	101	94·5	4·2
3 P + N + ⏚	0·270	70	70	35	76·2	8	36	84	94	54	51	120	4·5	103	101	4·2

IP 66/67 - LV 63/125 A plastic (p. 460)



	Weight (kg)	Drilling (mm)					Dimensions (mm)							
		A	B	C	ØD	ØT	E	F	G	H	I	J	K	L
LV 63 A														
2 P + ⏚	0·68	77	85	42·5	92	6·5	106	106	98	79	158	6	127	113·5
3 P + ⏚	0·71	77	85	42·5	92	6·5	106	106	98	79	158	6	127	113·5
3 P + N + ⏚	0·77	77	85	42·5	92	6·5	106	106	98	79	158	6	127	113·5
LV 125 A														
3 P + ⏚	1·40	124	124	62	120	6·5	146	146	84	93	182	8	157	131
3 P + N + ⏚	1·55	124	124	62	120	6·5	146	146	84	93	182	8	157	131

Hypra® IP 44 and IP 66/67
surface mounting sockets

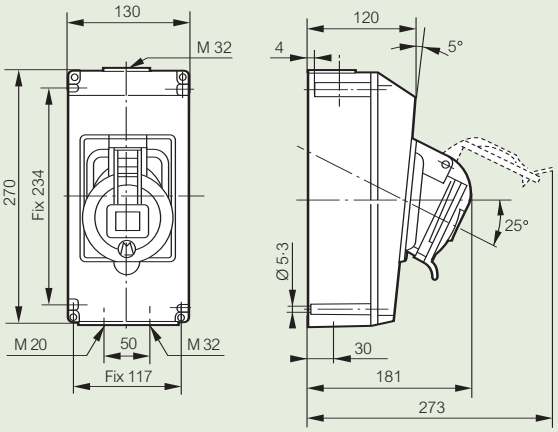
■ Technical information

IP 44 and IP 66/67 conform to IEC 60529
Icc 10 kA according to IEC 60309-1
IK according to BS EN 62262 : metal = IK 10 - plastic = IK 09
Stainless steel external screws - nickel plated contacts

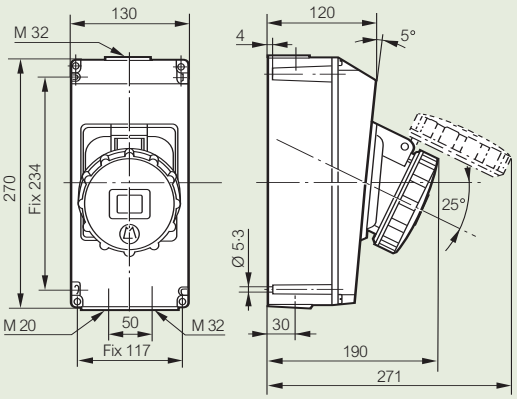
Boxes can be rotated to aid entry

■ Dimensions

IP 44 - LV 63 A (p. 456)
Metal boxes are equipped with :
2 internal linked earth terminals and 1 external earth terminal

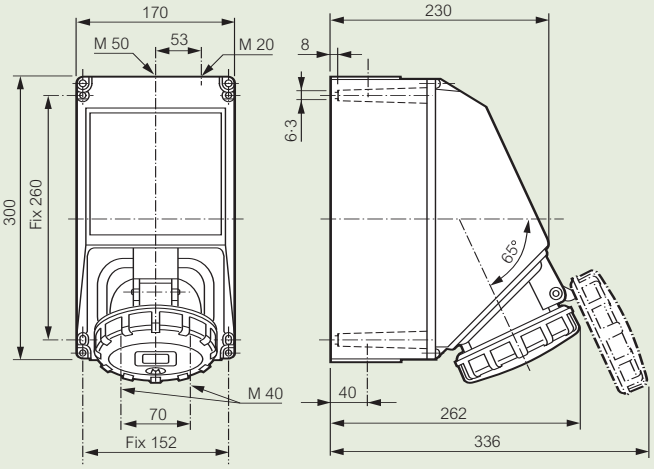


IP 66/67 - LV 63 A (p. 460)



	Weight (kg)
63 A	
2 P + ⏚	1·50
3 P + ⏚	1·55
3 P + N + ⏚	1·60

IP 66/67 - LV 125 A (p. 460)



	Weight (kg)
125 A	
3 P + ⏚	3·5
3 P + N + ⏚	3·7

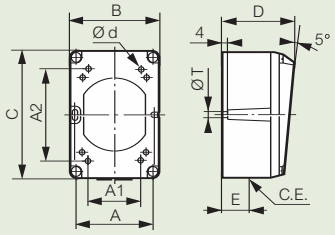
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44, IP 66/67 and IP 66/67-55
reversible boxes for end or through wiring surface sockets

■ Technical information
Boxes can be rotated to aid entry

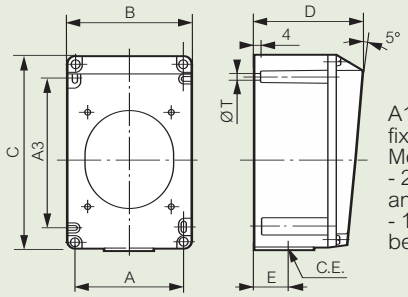
■ Dimensions of reversible boxes for panel mounting sockets

LV 16 A, ELV 16 A (p. 456, 460)



A1 and A2 : optional blind fixing points
Metal boxes are equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

LV 32 A (p. 456, 460)

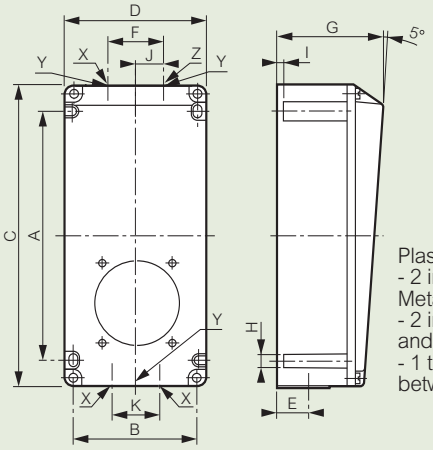


A1 and A2 : optional blind fixing points
Metal boxes are equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

Reversible boxes → / Panel mounting sockets ↓	Material	Weight (kg)	Fixings (mm) A1	A2	ød	A	A3	ØT	Dimensions (mm) B	C	D	E	C.E.
IP 66/67-55 - LV 16 A													
2 P + ⏚	Plastic	0·115	51	68	4·2	64	–	5·3	74	106	58	20	M 20
3 P + ⏚	Plastic	0·160	68	68	4·2	85	–	5·3	96	122	60	22	M 20
3 P + N + ⏚	Plastic	0·160	68	68	4·2	85	–	5·3	96	122	60	22	M 20
IP 66/67-55 - LV 32 A													
2 P + ⏚ / 3 P + ⏚	Plastic	0·340	–	–	–	90	125	5·3	102	162	90	26	M 25
3 P + N + ⏚													
IP 44 - LV 16 A													
2 P + ⏚	Plastic	0·115	51	68	4·2	64	–	5·3	74	106	58	20	M 20
	Metal	0·400											
3 P + ⏚	Plastic	0·160	68	68	4·2	85	–	5·3	96	122	60	22	M 20
	Metal	0·520											
3 P + N + ⏚	Plastic	0·160	68	68	4·2	85	–	5·3	96	122	60	22	M 20
	Metal	0·520											
IP 44 - LV 32 A													
2 P + ⏚	Plastic	0·340	–	–	–	90	125	5·3	102	162	90	26	M 25
	Metal	0·910											
3 P + ⏚	Plastic	0·340	–	–	–	90	125	5·3	102	162	90	26	M 25
	Metal	0·910											
3 P + N + ⏚	Plastic	0·340	–	–	–	90	125	5·3	102	162	90	26	M 25
	Metal	0·910											
IP 44 - ELV 16 A													
2 P	Plastic	0·115	51	68	4·2	64	–	5·3	74	106	58	20	M 25

■ Dimensions for through wiring sockets

LV 16 to 63 A (p. 456, 460)



Plastic box equipped with :
- 2 internal linked earth terminals

Metal box equipped with :
- 2 internal linked earth terminals and 1 external earth terminal
- 1 tulip earth pin connection between base and cover

Reversible boxes → / Panel mounting sockets ↓	Material	Weight (kg)	Fixings (mm) A	B	H	Dimensions (mm) C	D	E	F	G	I	J	K	X	Y	Z
16 A																
2 P + ⏚	Plastic	0·330	145	74	5·3	182	86	22	34	75	4	–	–	–	M20	–
	Metal	0·830														
3 P + ⏚	Plastic	0·330	145	74	5·3	182	86	22	34	75	4	–	–	–	M20	–
	Metal	0·830														
3 P + N + ⏚	Plastic	0·330	145	74	5·3	182	86	22	34	75	4	–	–	–	M20	–
	Metal	0·830														
32 A																
2 P + ⏚	Plastic	0·670	234	117	5·3	270	130	30	50	110	4	–	–	–	M25	–
	Metal	1·730														
3 P + ⏚	Plastic	0·670	234	117	5·3	270	130	30	50	110	4	–	–	–	M25	–
	Metal	1·730														
3 P + N + ⏚	Plastic	0·670	234	117	5·3	270	130	30	50	110	4	–	–	–	M25	–
	Metal	1·730														
63 A																
2 P + ⏚	Plastic	2·000	260	152	6·3	300	170	40	–	150	8	50	70	M32	–	M20
	Metal	4·300		157												
3 P + ⏚	Plastic	2·000	260	152	6·3	300	170	40	–	150	8	50	70	M32	–	M20
	Metal	4·300		157												
3 P + N + ⏚	Plastic	2·000	260	152	6·3	300	170	40	–	150	8	50	70	M32	–	M20
	Metal	4·300		157												

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44, IP 66/67 and IP 66/67-55
straight and angled plugs

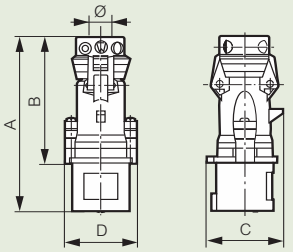
■ Technical information

IP 44, IP 66/67 and IP 66/67-55 conform to IEC 60529
Icc 10 kA according to IEC 60309-1
Stainless steel external screws - Nickel plated contacts
IK according to BS EN 62262 : plastic, rubber = IK 09
metal = IK 10

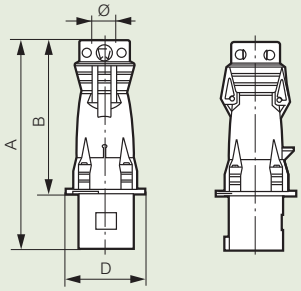
■ Dimensions

Straight plugs IP 44

LV 16/32 A, ELV 16 A (p. 456)



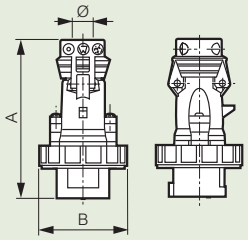
LV 63 A (p. 456)



	Material	Weight (kg)	Dimensions (mm) A	B	C	D	Ø Clamping and grip (mm)
LV 16 A							
2 P + ⏚	Plastic	0·150	135	100	57	55	8 to 15
	Metal	0·365					
	Rubber	0·205	135	100	60	61	8 to 15
3 P + ⏚	Plastic	0·175	139	103	65	60	8 to 15
	Metal	0·425					
	Rubber	0·260	139	103	68	66	8 to 15
3 P + N + ⏚	Plastic	0·210	154	118	73	66	10 to 18
	Metal	0·535					
	Rubber	0·300	154	118	77	72	10 to 18
LV 32 A							
2 P + ⏚	Plastic	0·260	164	119	78	70·5	10 to 18
	Metal	0·645					
	Rubber	0·360	164	119	81	76·5	10 to 18
3 P + ⏚	Plastic	0·260	164	119	78	70·5	12 to 22
	Metal	0·645					
	Rubber	0·360	164	119	81	76·5	12 to 22
3 P + N + ⏚	Plastic	0·300	170	125	86	77	12 to 22
	Metal	0·685					
	Rubber	0·415	170	125	89	83	12 to 22
LV 63 A							
3 P + ⏚	Plastic	0·640	255	188·5	–	102	18·5 to 29
	Rubber	0·980				110	
3 P + N + ⏚	Plastic	0·700	255	188·5	–	102	20·5 to 32
	Rubber	1·050				110	
ELV 16 A							
2 P	Plastic	0·180	142	107	62	55	8·5 to 22

Straight plugs IP 66/67-55

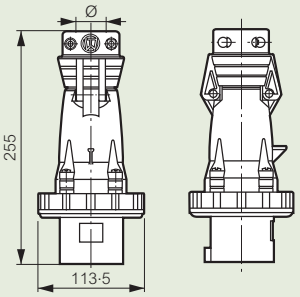
LV 16/32 A (p. 460)



	Weight (kg)	A (mm)	B (mm)	Ø Clamping and grip (mm)
16 A				
2 P + ⏚	0·165	135	72·5	8 to 15
3 P + ⏚	0·195	139	81	8 to 15
3 P + N + ⏚	0·220	154	86·5	10 to 18
32 A				
2 P + ⏚	0·280	164	94·5	10 to 18
3 P + ⏚	0·280	164	94·5	12 to 22
3 P + N + ⏚	0·325	170	101	12 to 22

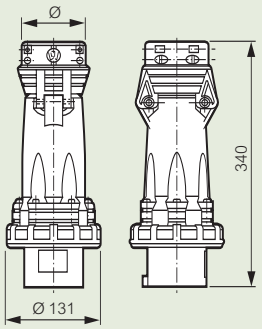
Straight plugs IP 66/67

LV 63 A (p. 460)



	Weight (kg)	Ø Clamping and grip (mm)
63 A		
3 P + ⏚	0·680	18·5 to 29
3 P + N + ⏚	0·750	20·5 to 32

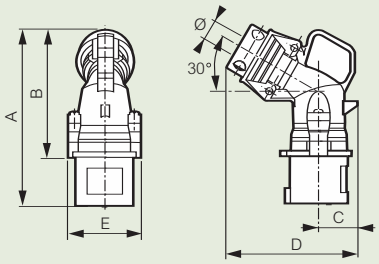
LV 125 A (p. 460)



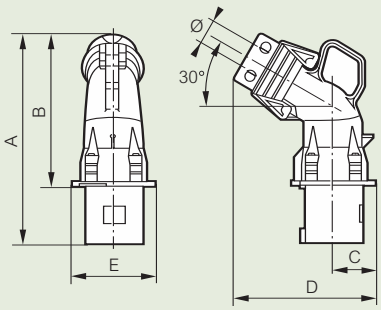
	Weight (kg)	Ø Clamping and grip (mm)
125 A		
3 P + ⏚	1·5	24 to 48
3 P + N + ⏚	1·7	28 to 48

Angled plugs IP 44

LV 16/32 A, ELV 16 A (p. 456)



IP 44 - LV 63 A (p. 456)



	Material	Weight (kg)	Dimensions (mm) A	B	C	D	E	Ø Clamping and grip (mm)
LV 16 A								
2 P + ⏚	Plastic	0·145	136	100	29·5	100	55	8 to 15
	Metal	0·395						
	Rubber	0·230	136	100	29·5	100	61	8 to 15
3 P + ⏚	Plastic	0·185	141	105	33·5	105	60	8 to 15
	Metal	0·455						
	Rubber	0·290	141	105	33·5	105	66	8 to 15
3 P + N + ⏚	Plastic	0·220	150	114	37·5	114	66	10 to 18
	Metal	0·585						
	Rubber	0·330	150	114	37·5	114	72	10 to 18
LV 32 A								
2 P + ⏚	Plastic	0·275	161	116	39·5	116	70·5	10 to 18
	Metal	0·745						
	Rubber	0·390	161	116	39·5	116	76·5	10 to 18
3 P + ⏚	Plastic	0·275	161	116	39·5	116	70·5	12 to 22
	Metal	0·745						
	Rubber	0·390	161	116	39·5	116	76·5	12 to 22
3 P + N + ⏚	Plastic	0·320	167	122	44·5	122	77	12 to 22
	Metal	0·790						
	Rubber	0·435	167	122	44·5	122	83	12 to 22
LV 63 A								
3 P + ⏚	Metal	1·150	243·5	177	51	168	102	18·5 to 29
	Rubber	1·030	243·5	177	51	168	110	18·5 to 29
3 P + N + ⏚	Metal	1·250	243·5	177	51	168	102	20·5 to 32
	Rubber	1·100	243·5	177	51	168	110	20·5 to 32
ELV 16 A								
2 P	Rubber	0·250	131	107	30	107	61	8·5 to 22

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44, IP 66/67 and IP 66/67-55
angled plugs and mobile sockets

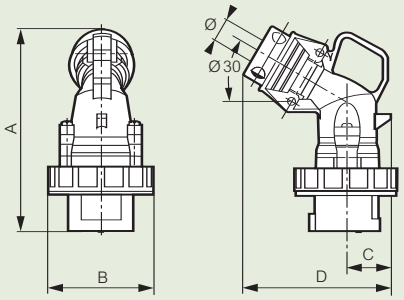
■ Technical information

IP 44, IP 66/67 et IP 66/67-55 according to IEC 60529
Icc 10 kA according to IEC 60309-1
Stainless steel external screws - Nickel plated contacts
IK according to BS EN 62262 : metal = IK10 - plastic, rubber = IK 09

■ Dimensions

Angled plugs IP 66/67-55

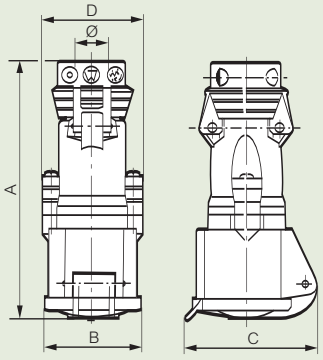
LV 16/32 A (not shown in catalogue - available on request)



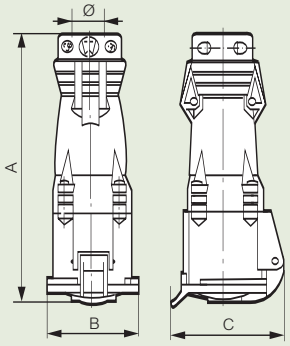
	Material	Weight (kg)	Dimensions (mm) A	B	C	D	Ø Clamping and grip (mm)
16 A							
2 P + ⏚	Plastic	0·165	136	72·5	29·5	100	8 to 15
3 P + ⏚	Plastic	0·195	141	81	33·5	105	8 to 15
3 P + N + ⏚	Plastic	0·220	150	86·5	37·5	114	10 to 18
32 A							
2 P + ⏚	Plastic	0·280	161	94·5	39·5	116	10 to 18
3 P + ⏚	Plastic	0·280	161	94·5	39·5	116	12 to 22
3 P + N + ⏚	Plastic	0·325	167	101	44·5	122	12 to 22

Mobile sockets IP 44

LV 16/32 A, ELV 16 A (p. 457)



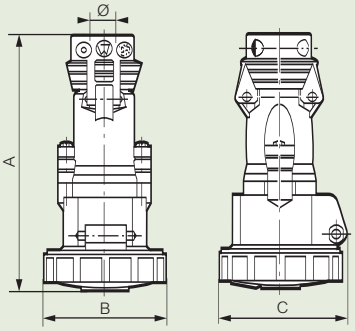
LV 63 A(1) (p. 457)



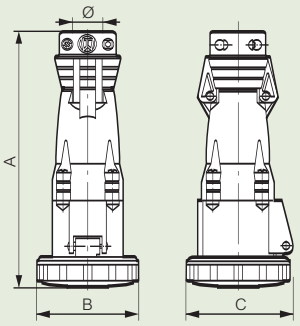
	Material	Weight (kg)	Dimensions (mm) A	B	C	D	Ø Clamping and grip (mm)
LV 16 A							
2 P + ⏚	Plastic	0·170	147	54·5	74	55	8 to 15
	Rubber	0·250	147	58	74	61	8 to 15
3 P + ⏚	Plastic	0·200	151	61·5	81	60	8 to 15
	Rubber	0·285	151	65	81	66	8 to 15
3 P + N + ⏚	Plastic	0·245	172	69·5	90	66	10 to 18
	Rubber	0·335	172	72·5	90	72	10 to 18
LV 32 A							
2 P + ⏚	Plastic	0·300	177	71	93	70·5	10 to 18
	Rubber	0·400	177	74·5	93	76·5	10 to 18
3 P + ⏚	Plastic	0·300	177	71	93	70·5	12 to 22
	Rubber	0·400	177	74·5	93	76·5	12 to 22
3 P + N + ⏚	Plastic	0·350	183	77·5	100	77	12 to 22
	Rubber	0·475	183	80·5	100	83	12 to 22
LV 63 A							
3 P + ⏚	Plastic	0·770	273	96	119	–	18·5 to 29
	Rubber	1·300	273	110	124	–	18·5 to 29
3 P + N + ⏚	Plastic	0·830	273	96	119	–	20·5 to 32
	Rubber	1·400	273	110	124	–	20·5 to 32
ELV 16 A							
2 P	Plastic	0·190	148	54·5	74	55	8·5 to 22

Mobile sockets IP 66/67 and IP 66/67-55

LV 16/32 A (p. 460)

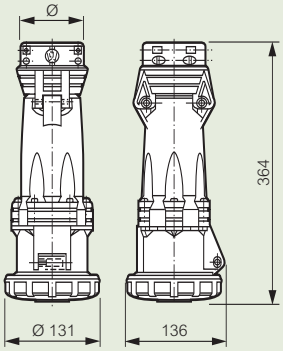


LV 63 A(1) (p. 460)



	Material	Weight (kg)	Dimensions (mm) A	B	C	Ø Clamping and grip (mm)
LV 16 A						
2 P + ⏚	Plastic	0·180	150	72·5	75·5	8 to 15
3 P + ⏚	Plastic	0·215	154	81	86	8 to 15
3 P + N + ⏚	Plastic	0·275	169	86·5	89	10 to 18
LV 32 A						
2 P + ⏚	Plastic	0·320	179	94·5	99	10 to 18
3 P + ⏚	Plastic	0·320	179	94·5	99	12 to 22
3 P + N + ⏚	Plastic	0·375	185	101	105	12 to 22
LV 63 A						
3 P + ⏚	Plastic	0·850	278	113·5	119	18·5 to 29
3 P + N + ⏚	Plastic	0·910	278	113·5	119	20·5 to 32

LV 125 A(1) (p. 460)



	Weight (kg)	Ø Clamping and grip (mm)
125 A		
3 P + ⏚	1·8	24 to 48
3 P + N + ⏚	2·0	28 to 48

(1) Wiring diagram shown on p. 468

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

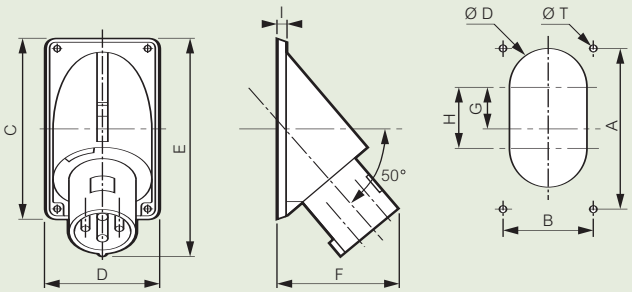
Hypra® IP 44, IP 66/67 and IP 66/67-55
panel mounting appliance inlets

■ Technical information

IP 44, IP 66/67 and IP 66/67-55 conform to IEC 60529 an EN 60529
Icc 10 kA according to IEC 60309-1
Stainless steel external screws - Nickel plated contacts
IK according to BS EN 62262 : plastic = IK 09
metal = IK 10

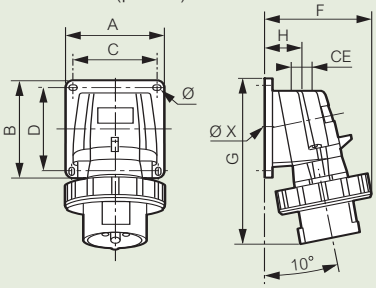
■ Dimensions

Panel appliance inlets IP 44(1) (p. 457)



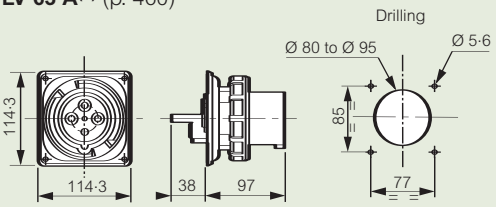
	Material	Weight (kg)	Drilling (mm) A	B	ØT	ØD	G	Dimensions (mm) H	C	D	E	F	I
LV 16 A													
2 P + ⏚	Plastic	0·140	94	62	4·5	40	–	–	104	72	121	78	6
	Metal	0·530											
3 P + ⏚	Plastic	0·160	109	83	4·5	40	–	–	120	94	135	86	6
	Metal	0·630											
3 P + N + ⏚	Plastic	0·190	109	83	4·5	40	–	–	120	94	139	86	6
	Metal	0·690											
LV 32 A													
2 P + ⏚	Plastic	0·280	149	90	5·5	40	–	–	160	101	176	111	6
	Metal	0·950											
3 P + ⏚	Plastic	0·280	149	90	5·5	40	–	–	160	101	176	111	6
	Metal	0·950											
3 P + N + ⏚	Plastic	0·320	149	90	5·5	40	–	–	160	101	174	108	6
	Metal	1·000											
LV 63 A													
3 P + ⏚	Plastic	0·630	163	93	6·5	80	42	62	183	113	221	120	8
	Metal	2·230											
3 P + N + ⏚	Plastic	0·690	163	93	6·5	80	42	62	183	113	221	120	8
	Metal	2·450											

Surface appliance inlets IP 66/67-55
LV 16/32 A (p. 460)



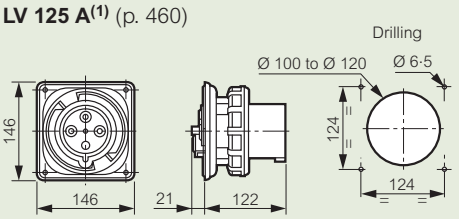
	Weight (kg)	Dimensions (mm) A/B	C/D	F	G	H	CE	Ø	ØX
16 A									
2 P + ⏚	0·188	84	72	87	126	34	M 20	4·3	17
3 P + ⏚	0·257	84	72	95	134	34			
3 P + N + ⏚	0·297	84	72	100	141	34			
32 A									
2 P + ⏚	0·370	110	98	107	168	39	M 25	5·3	24
3 P + ⏚									
3 P + N + ⏚	0·413	110	98	113	168	39			

Panel appliance inlets IP 66/67
LV 63 A(1) (p. 460)



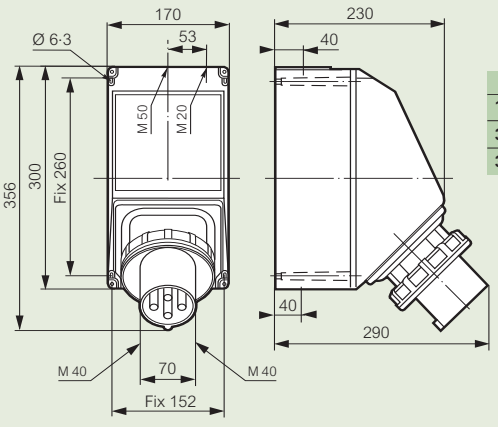
	Material	Weight (kg)
63 A		
3 P + ⏚	Plastic	0·548
3 P + N + ⏚	Plastic	0·610

LV 125 A(1) (p. 460)



	Weight (kg)
125 A	
3 P + ⏚	1·00
3 P + N + ⏚	1·15

Surface appliance inlets IP 66/67
LV 125 A(1) (p. 460)



	Weight (kg)
125 A	
3 P + ⏚	2·6
3 P + N + ⏚	2·7

(1) Wiring diagram for 63 A and 125 A shown on p. 468

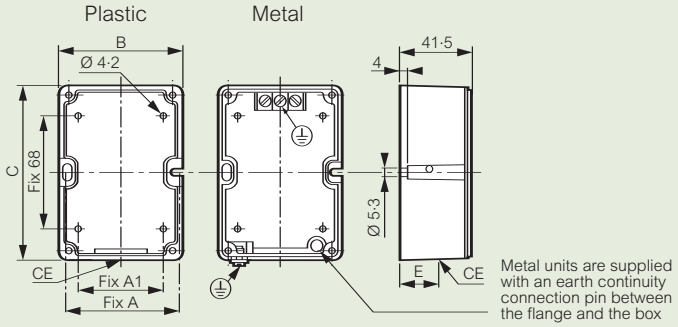
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Technical information

Boxes can be rotated to aid entry

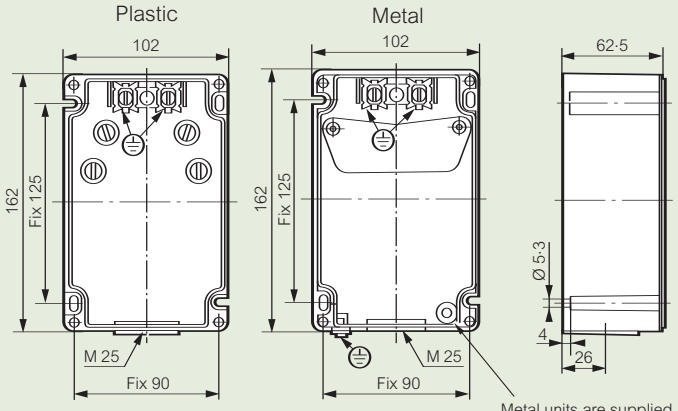
■ Dimensions

LV 16 A (p. 457)
Fix A1 and Fix 68 :
optional blind hole fixing points



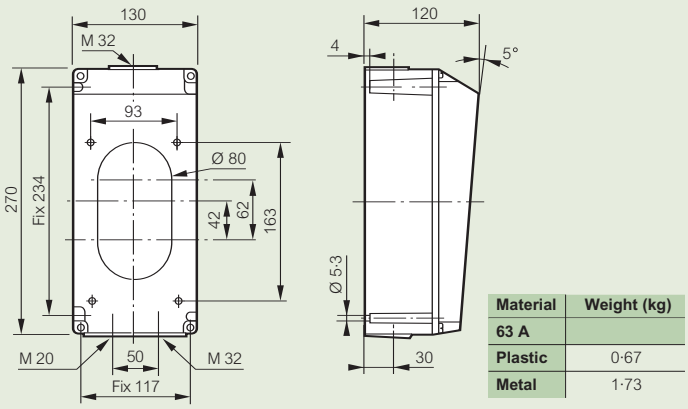
	Material	Weight (kg)	A (mm)	A1 (mm)	B (mm)	C (mm)	E (mm)	PE (mm)
16 A								
2 P + ⏚	Plastic	0·085	64	51	74	106	20	M20
	Metal	0·250					22	
3 P + ⏚	Plastic	0·110	85	68	96	122	22	M20
3 P + N + ⏚	Metal	0·360						

LV 32 A (p. 457)
Equipped with 2 internal earth terminals (plastic box) and 1 external (metal box)



Material	Weight (kg)
32 A	
Plastic	0·24
Metal	0·65

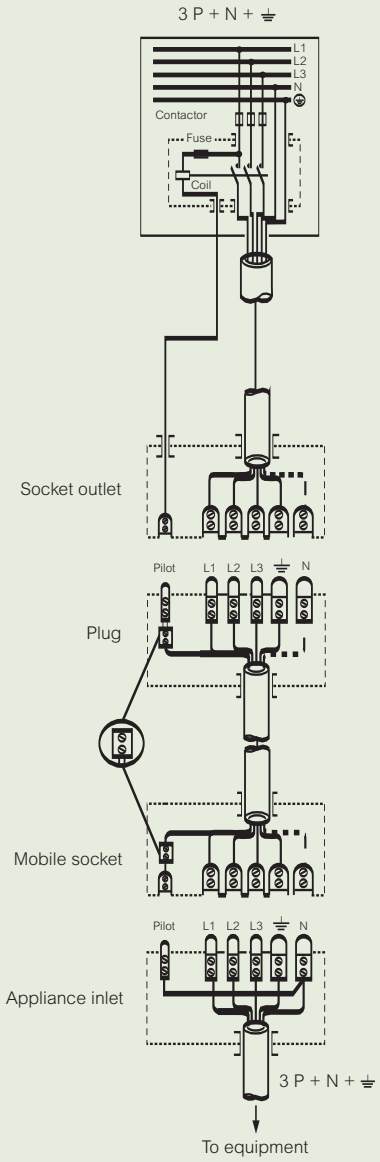
LV 63 A (p. 457)
Equipped with 2 internal earth terminals and 1 external (metal box)
IK 09 according to BS EN 62262



Material	Weight (kg)
63 A	
Plastic	0·67
Metal	1·73

■ Example of 63/125 A 3 P + ⏚ and 3 P + N + ⏚ pilot pin connection

The pilot pin enables the load to be removed prior to the separation of the phase pins, when the circuit is routed via a contactor



The pilot pin connection accepts 2·5-6 mm² flexible or up to 10 mm² rigid conductor. It is the small centre pin in the connection.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 44 combined units
plastic surface mounting 16/32/63 A


0592 03


0592 07


0596 01


0592 24

Technical information and dimensions (p. 471)

Conform to BS EN 60439-1
IP 44 conforms to BS EN 60529
IK 09 conforms to BS EN 62262
Temp. rating : –15 °C to +40 °C(1)

Combined units with interlocked switched socket

Double mechanical interlock
Cable glands are not supplied (ISO)

Pack	16 A	32 A	
			100 to 130 V~
1	0592 00		2 P + ⏚
			200 to 250 V~
1	0592 03	0592 43	2 P + ⏚
			380 to 415 V~
1	0592 09	0592 49	3 P + ⏚
1	0592 16	0592 56	3 P + N + ⏚
	63 A		380 to 415 V~
1	0592 34		3 P + ⏚
1	0592 35		3 P + N + ⏚

Combined units protected by 30 mA RCBO

Transparent plastic hinged window
Cable glands are not supplied (ISO)

Pack	16 A	32 A	
			200 to 250 V~ with RCBO
1	0592 07	0592 47	2 P + ⏚
			380 to 415 V~ with RCBO
1	0592 14		3 P + ⏚
1	0592 19	0592 59	3 P + N + ⏚

Combined units controlled by switch fitted with MCB

Transparent plastic hinged window
Cable glands are not supplied (ISO)

Pack	16 A	32 A	
			200 to 250 V~
1	0596 10	0596 15	2 P + ⏚
	63 A		380 to 415 V~
1	0592 86		3 P + ⏚
1	0592 85		3 P + N + ⏚

Combined units with interlocked switched sockets and protected by 30 mA RCBO or RCD

Transparent plastic hinged window
Cable glands are not supplied (ISO)

Pack	16 A	32 A	
			200 to 250 V~ with RCBO
1	0596 01	0596 05	2 P + ⏚
			380 to 415 V~ with RCBO
1	0596 02	0596 07	3 P + ⏚
1	0596 03	0596 08	3 P + N + ⏚
	63 A		380 to 415 V~
1	0592 83		3 P + ⏚ with MCB + RCD add-on module
1	0592 84		3 P + N + ⏚ with RCD

Combined units with Prisinter and protected by 30 mA RCBO

Transparent plastic hinged window
Cable glands are not supplied (ISO)
IP 44 plug inserted
IP 55 lid closed or connected to an IP 66/67-55 angled plug

Pack	16 A	32 A	
			200 to 250 V~
1	0592 24		2 P + ⏚
			380 to 415 V~
1	0592 25	0592 28	3 P + ⏚
1	0592 26	0592 29	3 P + N + ⏚

(1) Units with RCBO and some MCB protection devices have temperature ratings of –5 °C to + 40 °C
Switch only units and some MCBs have increased ratings - please contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 66/67-55 and IP 66/67 combined units
plastic surface mounting


0592 65


0596 61


0591 05

Technical information and dimensions (p. 472)

Conform to BS EN 60439-1
IP 66/67-55 for 16 and 32 A
IP 66/67 conforms to BS EN 60529 for 63 and 125 A
IK 09 conforms to BS EN 62262
Temp. rating : –15 °C to +40 °C(1)

Pack	Cat. Nos.		
			Combined units with interlocked switched socket
			Double mechanical interlock Cable glands are not supplied (ISO)
	16 A	32 A	
			200 to 250 V~
1	0592 60	0592 63	2 P + ⏚
			380 to 415 V~
1	0592 61	0592 64	3 P + ⏚
1	0592 62	0592 65	3 P + N + ⏚
	63 A		380 to 415 V~
1	0592 36		3 P + ⏚
1	0592 37		3 P + N + ⏚
	125 A		380 to 415 V~
1	0591 04(2)		3 P + ⏚
1	0591 05(2)		3 P + N + ⏚
			Combined units controlled by switch, fitted with MCB or ⊔ rail only
			Transparent plastic hinged window Cable glands are not supplied (ISO)
	16 A	32 A	
			100 to 130 V~ ⊔ rail only
1	0596 60		2 P + ⏚
			200 to 250 V~ with MCB
1	0596 61	0596 65	2 P + ⏚
			380 to 415 V~ with MCB
1	0596 62	0596 67	3 P + ⏚
1	0596 63	0596 68	3 P + N + ⏚
			Combined unit with interlocked switched socket and protected by RCD or RCBO
			Transparent plastic hinged window Cable glands are not supplied (ISO)
	16 A	32 A	
			200 to 250 V~ with RCBO
1	0596 51	0596 55	2 P + ⏚
			380 to 415 V~ with RCBO
1	0596 52	0596 57	3 P + ⏚
1	0596 53	0596 58	3 P + N + ⏚
	63 A		380 to 415 V~ with RCD
1	0592 81		3 P + N + ⏚

(1) Units with RCBO and some MCB protection devices have temperature ratings of –5 °C to + 40 °C
Switch only units and some MCBs have increased ratings - please consult us
(2) Interlocked using a Vistop switch

Hypra® empty boxes
plastic surface mounting


0598 44

Technical information and dimensions (p. 472)

Pack	Cat. Nos.	**Undrilled empty boxes with transparent hinged window**
		IP 44, IP 66/67-55 or IP 66/67 according to the type of sockets that are fitted Conform to BS EN 60529 IK 09 conforms to BS EN 62262 Temp. rating : Please consult us
		External dimensions of box (mm) Depth x Height x Width
1	0598 43	120 x 370 x 140 • Allows up to 2 panel sockets 16/32 A • Fitted with a ⊔ rail which can take up to 6 Lexic modules
1	0598 44	181 x 370 x 230 • Allows up to 4 panel sockets 16/32 A • Fitted with a ⊔ rail which can take up to 9 Lexic modules



For protective devices

see p. 357-359

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

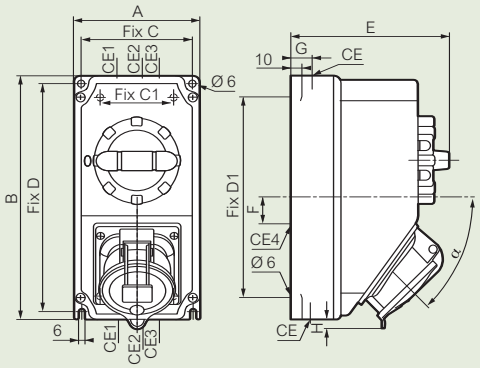
Hypra® IP 44 combined units
plastic surface mounting 16/32/63 A

IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262
External screws in stainless steel - Nickel plated contacts
Icc 10 kA conforms to IEC 60309-1
Self-extinguishing : 850 °C for insulated parts (650 °C for housing) according to IEC 60695-2-1

Units with Prisinter :
- IP 44 plug connected conforms to EN 60529 and IEC 60529
- IP 55 with cover closed or used with IP 66/67-55 plug
- Breaking capacity conforms to IEC 60947-1 and 60947-3 :

	16 A	32 A	63 A
AC1	16 A - 400 V~	32 A - 400 V~	63 A - 400 V~
AC3	8·4 kW	16·8 kW	33 kW
AC23	8·4 kW	16·8 kW	33 kW

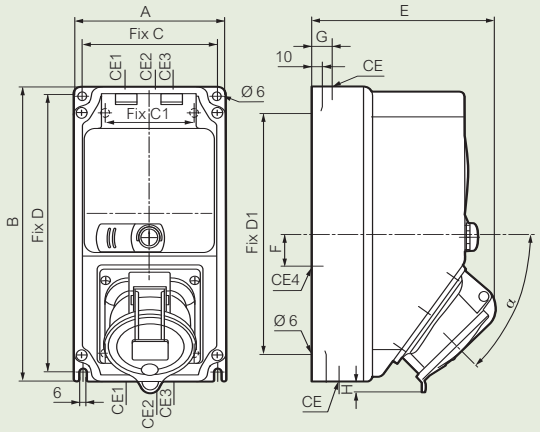
■ Switch controlled socket units (p. 469)



		Cat. Nos. 110 to 130 V~	Cat. Nos. 200 to 250 V~	Cat. Nos. 380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	Knock-out entries for cable gland CE1	CE2	CE3	CE4
16 A	2P+⏚	0592 00	0592 03		120	230	106	216	70	190	151	25	20	0	46°	M 20/25	–	M 20/25	Ø 29
16 A	3P+⏚			0592 09										0					
16 A	3P+N+⏚			0592 16										1·5					
32 A	2P+⏚		0592 43											9					
32 A	3P+⏚			0592 49										9					
32 A	3P+N+⏚			0592 56										10					
63 A	3P+⏚			0592 34	170	320	156	306	100	270	204	65	28	21·5	56°	M 20/25	M 25/32	M 20	Ø 38
63 A	3P+N+⏚			0592 35															

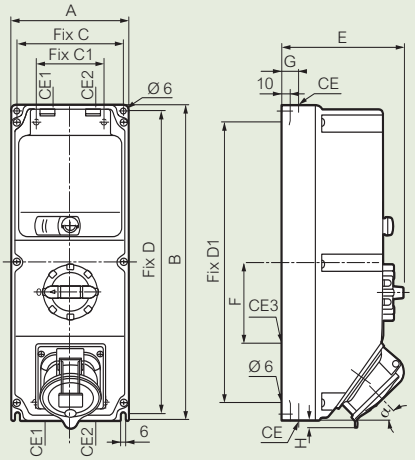
125 A contact our technical department for details (0591 04/05)

■ Socket units with ⊔ rail / with Legrand Lexic protection / with IP 44 socket or Prisinter (p. 469)



		Cat. Nos. 200 to 250 V~	Cat. Nos. 380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	Knock-out entries for cable gland CE1	CE2	CE3	CE4
16 A	2P+⏚	0592 07		120	230	106	216	70	190	132	25	20	0	46°	M 20/25	–	M 20/25	Ø 29
16 A	3P+⏚		0592 14							134			0					
16 A	3P+N+⏚		0592 19							138			1·5					
32 A	2P+⏚	0592 47								145			9					
32 A	3P+N+⏚		0592 59							148			10					
Prisinter 16 A	2P+⏚	0592 24		170	320	156	306	100	270	195	65	28	0	56°	M 20/25	M 25/32	M 20	Ø 38
Prisinter 16 A	3P+⏚		0592 25							195			0					
Prisinter 16 A	3P+N+⏚		0592 26							202			0					
Prisinter 32 A	3P+⏚		0592 28	170	320	156	306	100	270	206	65	28	0	56°				
Prisinter 32 A	3P+N+⏚		0592 29							214			0					

■ Switch controlled socket units : with ⊔ rail / with Legrand Lexic protection (p. 469)



		Cat. Nos. 200 to 250 V~	Cat. Nos. 380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	Knock-out entries for cable gland CE1	CE2	CE3
16 A	2P+⏚	0596 01/10		140	370	126	356	74	330	151	95	20	0	46°	M 20/25	M 20/25	Ø 29
16 A	3P+⏚		0596 02										0				
16 A	3P+N+⏚		0596 03										1·5				
32 A	2P+⏚	0596 05/15											9				
32 A	3P+⏚		0596 07										9				
32 A	3P+N+⏚		0596 08										10				
63 A	3P+⏚		0596 83/86	160	470	146	456	90	420	204	125	28	20	56°	M 25/32	M 20/25	Ø 38
63 A	3P+N+⏚		0596 84/85														

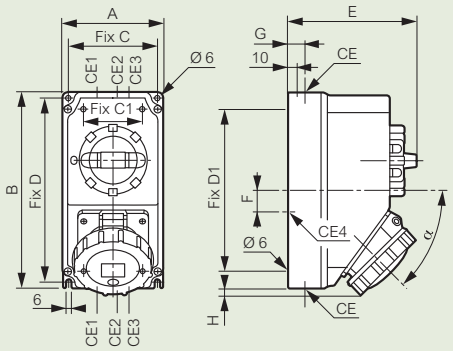
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® IP 66/67-55 and IP 66/67 combined units

plastic surface mounting 16/32/63/125 A

IP 67 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262
External screws in stainless steel
Icc 10 kA conforms to IEC 60309-1
Self-extinguishing : 850 °C for insulated parts (650 °C for housing) according to IEC 60695-2-1

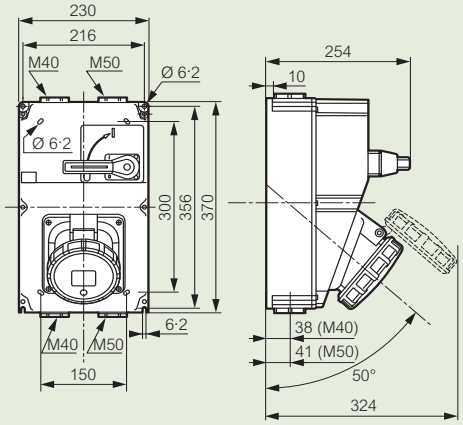
■ Switch controlled socket units (p. 470)



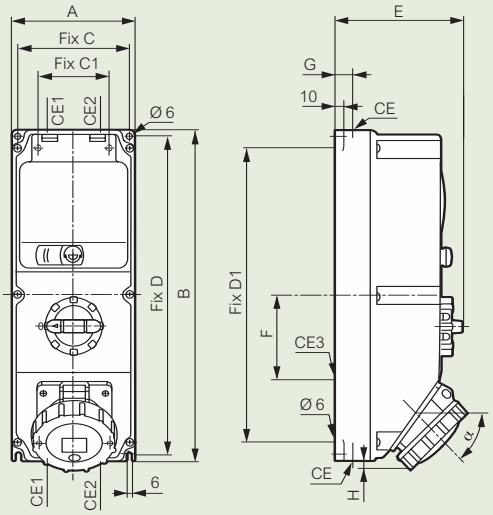
		Cat. Nos.		Dimensions (mm)											Knock-out entries for cable gland			
		200 to 250 V~	380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	CE1	CE2	CE3	CE4
16 A	2P+⏚	0592 60		120	230	106	216	70	190	151	25	20	0	46°	M20/ M25	–	M20/ M25	M25/ Ø29
	3P+⏚		0592 61							151			0					
	3P+N+⏚		0592 62							151			2					
32 A	2P+⏚	0592 63								152			8					
	3P+⏚		0592 64							152			8					
	3P+N+⏚		0592 65							156			12					
63 A	3P+⏚		0592 36	170	320	156	306	100	270	204	65	28	18	56°	M20/ M25	M25/ M32	M20	M25/ Ø38
	3P+N+⏚		0592 37															

Cat. Nos. 0591 04/05

125A



■ Switch controlled socket units : with ⊔ rail / with Legrand Lexic protection (p. 470)



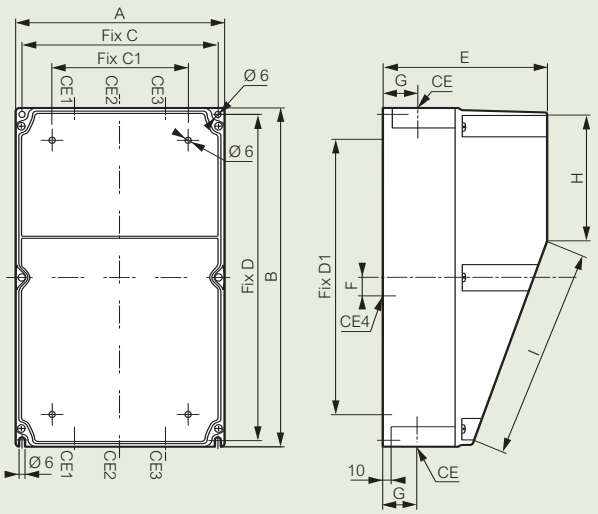
		Cat. Nos.			Dimensions (mm)											Knock-out entries for cable gland		
		110 to 130 V~	200 to 250 V~	380 to 415 V~	A	B	C	D	C1	D1	E	F	G	H	α	CE1	CE2	CE3
16 A	2P+⏚	059660	059661/51								151			0				
	3P+⏚			059662/52							151			0				
	3P+N+⏚			059663/53	140	370	126	356	74	330	151	95	20	2	46°	M20/ M25	M20/ M25	M25/ Ø29
32 A	2P+⏚		059665/55								152			8				
	3P+⏚			059667/57							152			8				
	3P+N+⏚			059668/58							156			12				
63 A	3P+N+⏚			059281	160	470	146	456	90	420	204	125	28	17	56°	M25/ M32	M25/ M32	M25/ M38/ Ø38

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Hypra® empty boxes
plastic surface mounting

■ Empty and undrilled boxes (p. 470)

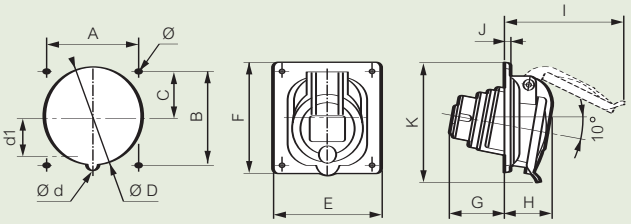
IP 66/67
IK 09 conforms to BS EN 62262
Self-extinguishing : 850 °C for insulated parts (650 °C for housing) according to BS EN 60695-2-1 and IEC 60695-2-1



Cat. Nos.	Dimensions (mm)											Knock-out entries for cable glands			
	A	B	C	C1	D	D1	E	F	G	H	I	CE1	CE2	CE3	CE4
0598 43	140	370	126	74	356	330	120	95	20	264	105	M 20/25	M 20/25	M 20/25	M 25
0598 44	230	370	216	150	356	300	181	–	38	120	220	M 25/32	M 20	M 25/32	–

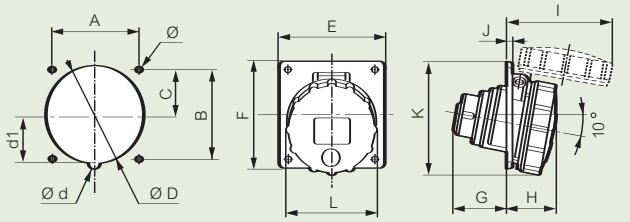
Hypra® IP 44 and IP 66/67-55
sockets with modular fixing centres

■ IP 44 sockets with modular fixing centres (p. 456)



		Weight (kg)	Dimensions (mm)													
			A	B	C	ØD	Ød	d1	E	F	G	H	I	J	K	Ø
16A	**2P+⏚**	0·110	70	70	35	76·2	–	–	84	84	37	36	89	4·5	88	4·2
	3P+⏚	0·140	70	70	35	76·2	–	–	84	84	43	36	97	4·5	89	4·2
	3P+N+⏚	0·165	70	70	35	76·2	–	–	84	84	43	37	106	4·5	91	4·2
32A	**2P+⏚**	0·220	70	70	35	76·2	–	–	84	94	54	45	117	4·5	100	4·2
	3P+⏚	0·220	70	70	35	76·2	–	–	84	94	54	45	117	4·5	100	4·2
	3P+N+⏚	0·255	70	70	35	76·2	8	36	84	94	54	46	125	4·5	102	4·2

■ IP 66/67-55 sockets with modular fixing centres (p. 460)

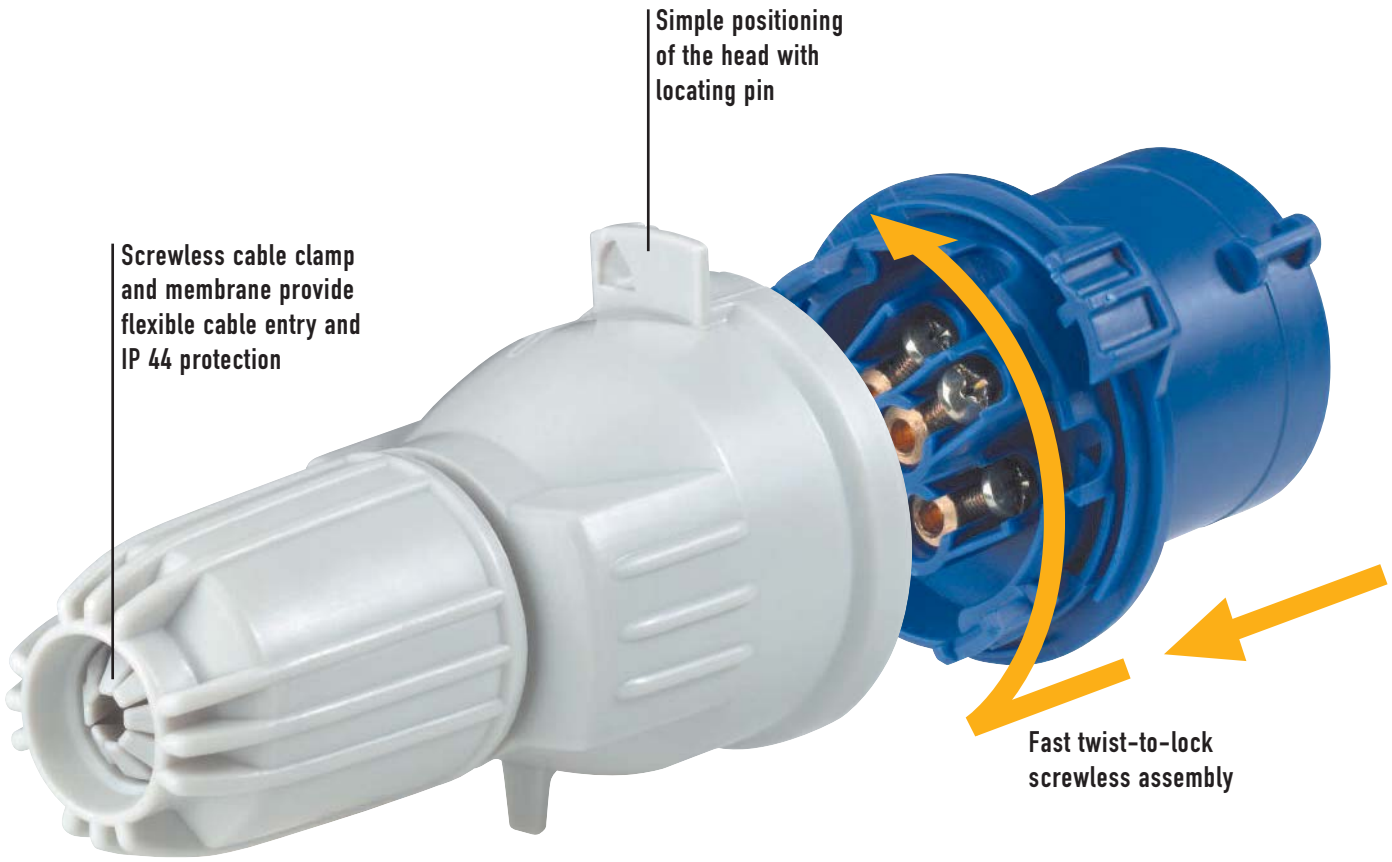


		Weight (kg)	Dimensions (mm)														
			A	B	C	ØD	Ød	d1	E	F	G	H	I	J	K	L	Ø
16A	**2P+⏚**	0·140	70	70	35	76·2	–	–	84	84	42	39	83	4·5	90	72·5	4·2
	3P+⏚	0·165	70	70	35	76·2	–	–	84	84	43	41	98	4·5	93	81	4·2
	3P+N+⏚	0·195	70	70	35	76·2	–	–	84	84	43	41	99	4·5	91	86·5	4·2
32A	**2P+⏚**	0·240	70	70	35	76·2	–	–	84	94	54	50	113	4·5	101	94·5	4·2
	3P+⏚	0·240	70	70	35	76·2	–	–	84	94	54	50	113	4·5	101	94·5	4·2
	3P+N+⏚	0·270	70	70	35	76·2	8	36	84	94	54	51	120	4·5	103	101	4·2

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P17 Tempra®... speed, safety and value

P17 Tempra has always been easy to use, always offered high specification and always represented outstanding value for money... so what's new? Well, Legrand has taken the most popular selection of plugs and sockets and modified them to make them even faster to connect and lock. Supplied in two parts, the twist-to-lock assembly saves valuable time on site.



EASIER TO INSTALL, SAFER TO USE



Supplied ready to use in two parts, the larger body size makes wiring easier



Quick connection with universal screws all facing the same way and an elongated earth pin which is disconnected last for maximum safety

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44 and IP 66/67 plastic plugs and sockets

ELV 16 A and LV 16 to 125 A

IP 44 - ELV 16 A and LV 16/32 A

Conform to : IEC 60309-1-2
IK 09
Self-extinguishing :
850 °C for insulated parts
(650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C

Technical information, entries and dimensions (p. 476-478)


(1)


Original design




(1)


(1)



			Surface mounting sockets inclined[1]	Surface mounting sockets	Panel mounting sockets: Inclined modular[2]	Panel mounting sockets: Straight small flange	Straight plugs	Mobile sockets	Appliance inlets[3]
ELV									
20 to 25 V 50/60 Hz	16 A	2 P		0552 06	0552 45	0552 11	0552 21	0552 31	
		3 P		0552 07			0552 22		
LV									
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	0555 50[1]	0553 50	0576 10	0573 51	0574 31[1]	0575 11[1]	0575 81
		3 P + ⏚		0553 51			0574 22	0575 02	
	32 A	2 P + ⏚		0553 70	0576 08		0581 21	0582 01	
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	0555 53[1]	0553 53	0576 11	0573 54	0574 34[1]	0575 14[1]	0575 84
	32 A	2 P + ⏚	0555 73[1]		0576 12		0581 34[1]	0582 14[1]	0582 84
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	0555 57[1]	0553 57	0576 17	0573 58	0574 38[1]	0575 18[1]	0575 88
		3 P + N + ⏚	0555 58[1]	0553 58	0576 23	0573 59	0574 39[1]	0575 19[1]	0575 89
	32 A	3 P + ⏚	0555 77[1]	0553 77	0576 18	0580 58	0581 38[1]	0582 18[1]	0582 88
		3 P + N + ⏚	0555 78[1]	0553 78	0576 24	0580 59	0581 39[1]	0582 19[1]	0582 89

IP 66/67 - LV 16 to 125 A

Conform to : IEC 60309-1-2
IK 09
Self-extinguishing :
850 °C for insulated parts
(650 °C for housing and cover)
Temp. rating : –25 °C to +40 °C
63 A and 125 A units have a pilot pin

Technical information, entries and dimensions (p. 479-480)











			Surface mounting sockets	Panel mounting sockets: Inclined	Panel mounting sockets: Inclined modular[2]	Straight plugs	Mobile sockets	Appliance inlets[3]
LV								
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	0553 00		0576 50	0563 00	0562 00	
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	0553 03		0576 51	0563 03	0562 03	0568 03
	32 A	2 P + ⏚	0553 23		0576 52	0563 23	0562 23	0568 23
	63 A	2 P + ⏚	0587 40	0587 20		0587 00	0587 10	0587 30
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	0553 07		0576 57	0563 07	0562 07	0568 07
		3 P + N + ⏚	0553 08		0576 63	0563 08	0562 08	0568 08
	32 A	3 P + ⏚	0553 27		0576 58	0563 27	0562 27	0568 27
		3 P + N + ⏚	0553 28		0576 64	0563 28	0562 28	0568 28
	63 A	3 P + ⏚	0587 44	0587 24		0587 04	0587 14	0587 34
		3 P + N + ⏚	0587 45	0587 25		0587 05	0587 15	0587 35
	125 A	3 P + ⏚	0591 06	0591 16		0591 26	0591 36	
		3 P + N + ⏚	0591 07	0591 17		0591 27	0591 37	0591 47

For voltages/arrangements not listed in this table, please contact us on 0845 605 4333

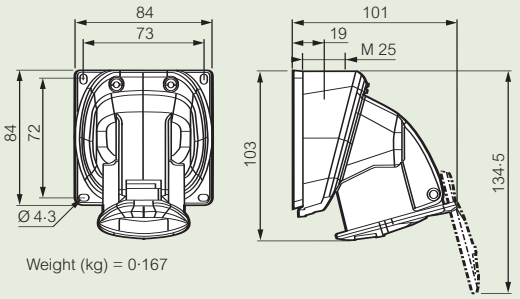
(1) New model (2) 70 x 70 mm fixing centres (modular) (3) Appliance inlet covers, see p. 457 and 478
For pack quantities, please refer to our current Legrand trade price list

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44 - ELV 16 A
plastic

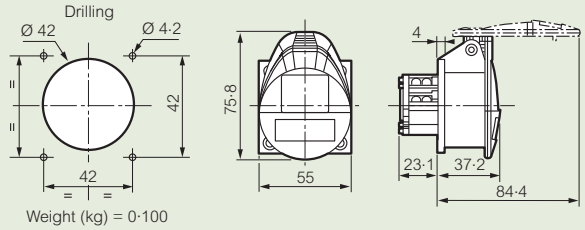
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262

■ **Surface mounting sockets (ELV)** (p. 475)



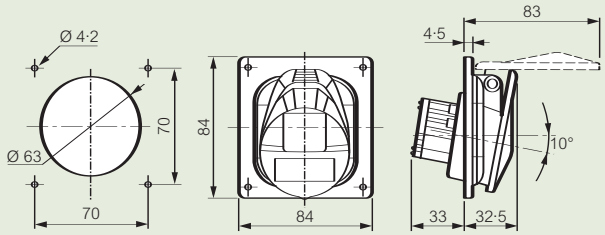
Weight (kg) = 0·167

■ **Panel mounting sockets (ELV)** - small flange (p. 475)

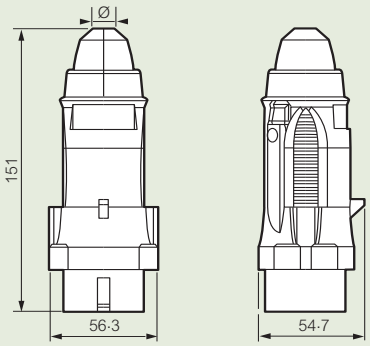


Weight (kg) = 0·100

■ **Panel mounting sockets (ELV)** - inclined modular (p. 475)

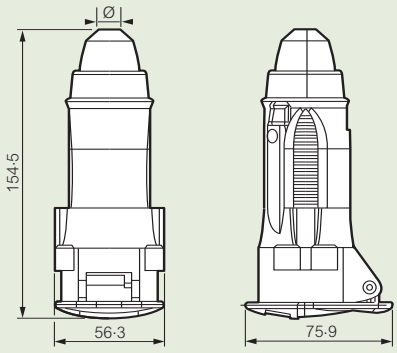


■ **Straight plugs (ELV)** - with membrane gland (p. 475)



Weight (kg) = 0·132
Ø clamping and grip: 13·5 to 22·8 mm

■ **Mobile sockets (ELV)** - with membrane gland (p. 475)



Weight (kg) = 0·16
Ø clamping and grip: 13·5 to 22·8 mm

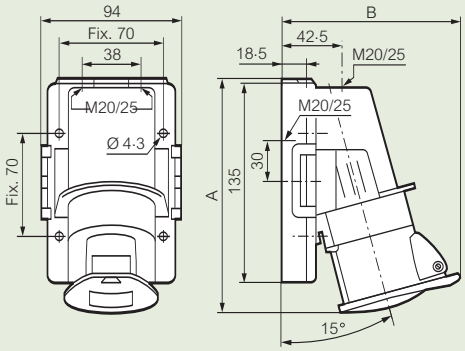
■ **P 17 Tempra IP 44 - ELV terminal capacity**

1 x 10 mm² max. rigid or flexible cable (min. 4mm²)

P 17 Tempra® IP 44 - LV 16 and 32 A
plastic

IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262

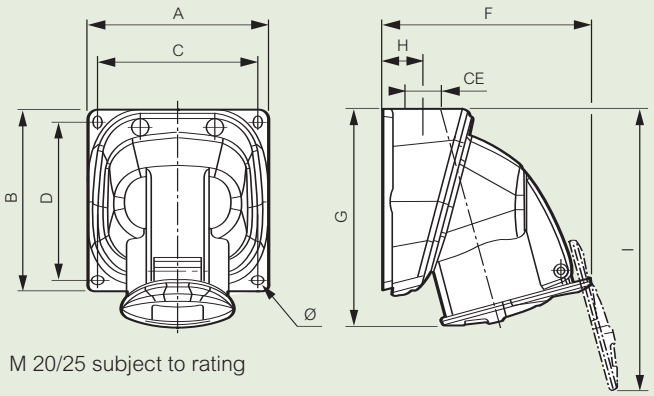
■ **Surface mounting sockets** - new design (p. 475)



	A (mm)	B (mm)
LV 16 A		
2P+⏚	158	121
3P+⏚	158	123
3P+N+⏚	171	130
LV 32 A		
2P+⏚	181	135
3P+⏚	181	135
3P+N+⏚	192	140

M 20/25 dual knockout entry

■ **Surface mounting sockets** - original design (p. 475)



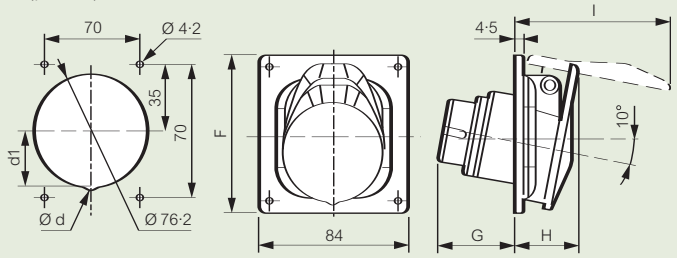
M 20/25 subject to rating

	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	I (mm)	CE (mm)	Ø (mm)
LV 16 A											
2P+⏚	0·185	84	84	73	72	103	103·5	20	134	M 20	4·3
3P+⏚	0·244	100	100	88	87	115	120	24	156	M 20	4·3
3P+N+⏚	0·269	100	100	88	87	118·5	121	24	162	M 20	4·3
LV 32 A											
2P+⏚	0·356	110	110	98	97	135	162	30	174	M 25	5·3
3P+⏚	0·356	110	110	98	97	135	162	30	174	M 25	5·3
3P+N+⏚	0·397	110	110	98	97	137	162·5	30	178	M 25	5·3

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

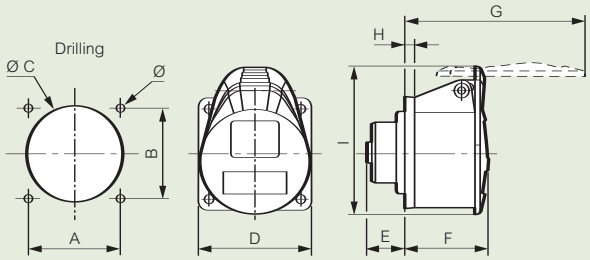
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262

■ Panel mounting sockets - with modular fixing centres 70 x 70 mm (p. 475)



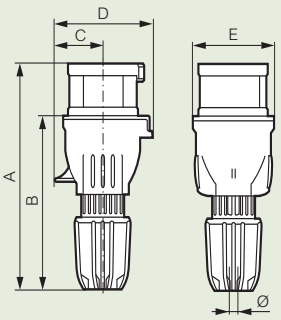
	Weight (kg)	ød (mm)	d1 (mm)	F (mm)	G (mm)	H (mm)	I (mm)
LV 16 A							
2P+⏚	0·110	–	–	84	42	33	83·5
3P+⏚	0·140	–	–	84	43	34·5	91·3
3P+N+⏚	0·165	–	–	84	43	36·5	100
LV 32 A							
2P+⏚ **3P+⏚**	0·220	–	–	94	54	44	112
3P+N+⏚	0·255	8	36	94	54	45	120

■ Straight panel mounting socket - small flange (p. 475)



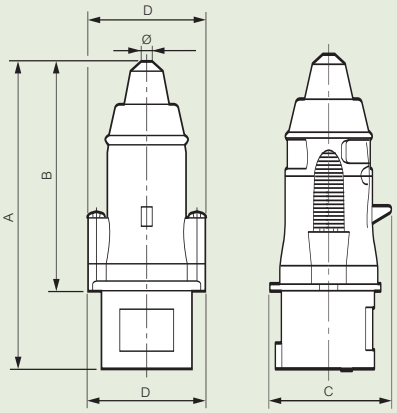
	Weight (kg)	A (mm)	B (mm)	Ø C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	Ø (mm)
LV 16 A											
2P+⏚	0·105	47	47	47	58	22·4	50	98·5	5·5	78·5	5·5
3P+⏚	0·127	52	52	55	65	22·4	50·5	104	5·5	85·6	5·5
3P+N+⏚	0·148	52	52	55	70	22·4	51	113	5·5	93·5	5·5
LV 32 A											
3P+⏚	0·197	60	60	57·1	75	31·4	61·3	127	5·5	97·5	5·5
3P+N+⏚	0·246	60	60	63·5	77	31·4	61·7	134	5·5	104·5	5·5

■ Straight plugs - new design with twist clamp and membrane gland Screwless body assembly (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Ø clamping and grip (mm)
LV 16 A							
2P+⏚	0·122	143 to 159	106 to 122	30	65	56	8 to 14
3P+⏚	0·150	143 to 159	106 to 122	34	69	56	8 to 14
3P+N+⏚	0·177	152 to 168	115 to 131	38	78	65	10 to 18
LV 32 A							
2P+⏚	0·217	161 to 177	115 to 131	39	79	65	10 to 18
3P+⏚	0·234	161 to 177	115 to 131	39	79	65	12 to 20
3P+N+⏚	0·276	167 to 181	121 to 135	45	88	72	14 to 21

■ Straight plugs - with membrane gland (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	Ø clamping and grip (mm)
LV 16 A						
2P+⏚	0·122	147	111	57	55	8 to 15·5
3P+⏚	0·150	154	118	65	60	8 to 15·5
3P+N+⏚	0·177	164	128	73	66	8 to 15·5
LV 32 A						
2P+⏚	0·217	179	134	78	70·5	11·5 to 22
3P+⏚	0·234	179	134	78	70·5	11·5 to 22
3P+N+⏚	0·276	189	144	86	77	11·5 to 22

■ P 17 Tempra IP 44 - LV max. terminal capacity

Sockets: 16 A - 1 x 4 mm² rigid cable
32 A - 1 x 10 mm² rigid cable

Plugs/Mobile sockets: 16 A - 1 x 2·5 mm² flexible cable
32 A - 1 x 6 mm² flexible cable

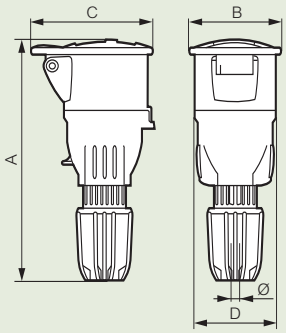
Appliance inlets: 16 A - 1 x 2·5 mm² rigid cable
32 A - 1 x 6 mm² rigid cable

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44 - LV 16 and 32 A
plastic (continued)

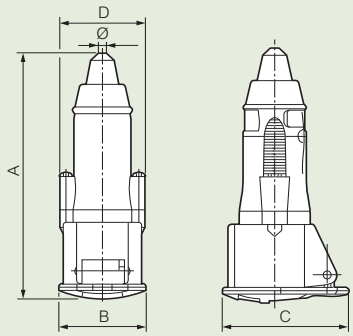
IP 44 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262

■ Mobile sockets - new design with twist clamp and membrane gland
Screwless body assembly (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	Ø clamping and grip (mm)
LV 16 A						
2 P+⏚	0·150	153 to 169	55	78	56	8 to 14
3 P+⏚	0·179	153 to 169	62	85	56	8 to 14
3 P+N+⏚	0·212	164 to 180	70	94	65	10 to 18
LV 32 A						
2 P+⏚	0·240	174 to 190	71	98	65	10 to 18
3 P+⏚	0·265	174 to 190	71	98	65	12 to 20
3 P+N+⏚	0·305	177 to 191	77	101	72	14 to 21

■ Mobile sockets - with membrane gland (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	Ø clamping and grip (mm)
LV 16 A						
2 P+⏚	0·150	155	55	78·5	55	8 to 15·5
3 P+⏚	0·179	162	61·5	85	60	8 to 15·5
3 P+N+⏚	0·212	170	69	93·5	66	8 to 15·5
LV 32 A						
2 P+⏚	0·240	189	69	97·5	70·5	11·5 to 22
3 P+⏚	0·265	191	71	97·5	70·5	11·5 to 22
3 P+N+⏚	0·305	197	77	124	77	11·5 to 22

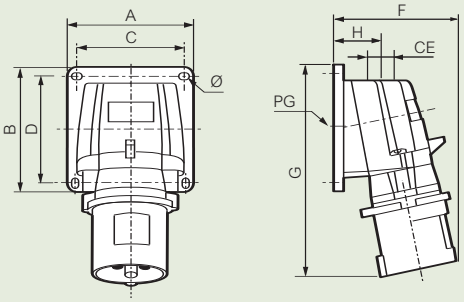
■ P 17 Tempra IP 44 - LV max. terminal capacity

Sockets: 16 A - 1 x 4 mm² rigid cable
32 A - 1 x 10 mm² rigid cable

Plugs/Mobile sockets: 16 A - 1 x 2·5 mm² flexible cable
32 A - 1 x 6 mm² flexible cable

Appliance inlets: 16 A - 1 x 2·5 mm² rigid cable
32 A - 1 x 6 mm² rigid cable

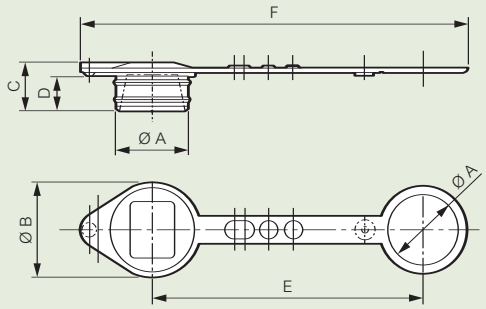
■ Appliance inlets (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	CE (mm)	Ø clamping and grip (mm)
LV 16 A										
2 P+⏚	0·168	84	84	72	72	77	126	34	M 20	4·3
3 P+⏚	0·232	84	84	72	72	84	134	34	M 20	4·3
3 P+N+⏚	0·256	84	84	72	72	91	141	34	M 20	4·3
LV 32 A										
2 P+⏚	0·325	110	110	98	98	96	168	39	M 25	5·3
3 P+⏚	0·325	110	110	98	98	96	168	39	M 25	5·3
3 P+N+⏚	0·364	110	110	98	98	102	168	39	M 25	5·3

■ Appliance inlet covers (p. 457)

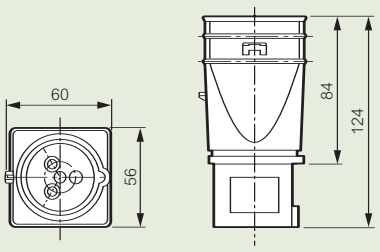
16/32/63 A



Cat. Nos.	Product	Ø A (mm)	Ø B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
0521 25	16 A – 2 P + ⏚	38	50	26	18	140	200
0521 26	16 A – 3 P + ⏚	43	55	26	18	150	215
0521 27	16 A – 3 P+N+⏚ 32 A – 2 P+⏚, 3 P + ⏚	50	62	26	18	160	232
0527 99	32 A – 3 P+N+⏚	56	68	26	18	167	248
0536 99	63 A – 2 P+⏚, 3 P + ⏚, 3 P+N+⏚	62	74	26	18	205	290

■ Adaptor from IEC to BS (p. 457)

Cat. No. 0521 01
16 A 2 P + ⏚ 230 V plug to 13 A 3 pin BS socket

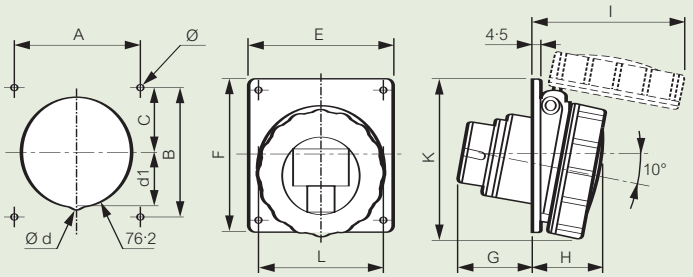


ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 66/67 - LV 16 and 32 A
plastic

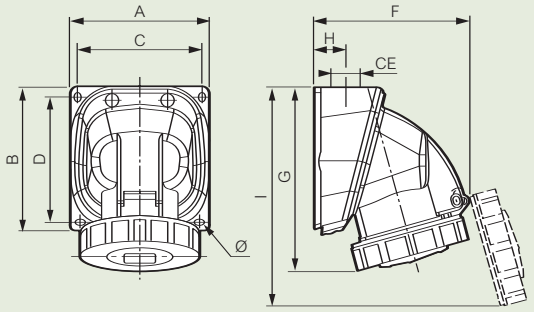
IP 66/67 conforms to BS EN 60529 and IEC 60529
IK 09 conforms to BS EN 62262

■ Panel mounting sockets - with modular fixing centres 70 x 70 mm (p. 475)



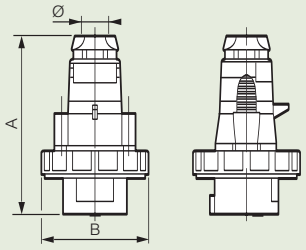
	Weight (kg)	A (mm)	B (mm)	C (mm)	Ø d (mm)	d1 (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	K (mm)	L (mm)	Ø (mm)
LV 16 A														
2 P + ⏚	0·140	70	70	35	–	–	84	84	42	39	83	90	72·5	4·2
3 P + ⏚	0·165	70	70	35	–	–	84	84	43	41	98	93	81	4·2
3 P + N + ⏚	0·195	70	70	35	–	–	84	84	43	41	99	91	86·5	4·2
LV 32 A														
2 P + ⏚	0·240	70	70	35	–	–	84	94	54	50	113	101	94·5	4·2
3 P + ⏚														
3 P + N + ⏚	0·195	70	70	35	8	36	84	94	54	51	120	103	101	4·2

■ Surface mounting sockets (p. 475)



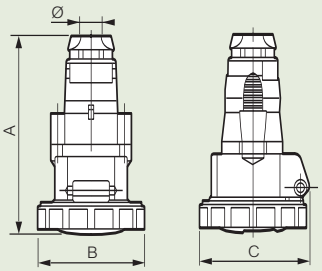
	Weight (kg)	A (mm)	B (mm)	C (mm)	D (mm)	F (mm)	G (mm)	H (mm)	I (mm)	CE (mm)	Ø (mm)
LV 16 A											
2 P + ⏚	0·230	84	84	73	72	94	112	20	130	M 20	4·3
3 P + ⏚	0·289	100	100	88	87	108	128	24	154	M 20	4·3
3 P + N + ⏚	0·317	100	100	88	87	110	129	24	157	M 20	4·3
LV 32 A											
2 P + ⏚	0·425	110	110	98	97	126	146	30	175	M 25	5·3
3 P + ⏚	0·425	110	110	98	97	126	146	30	175	M 25	5·3
3 P + N + ⏚	0·467	110	110	98	97	136	170·5	30	205	M 25	5·3

■ Straight plugs (p. 475)



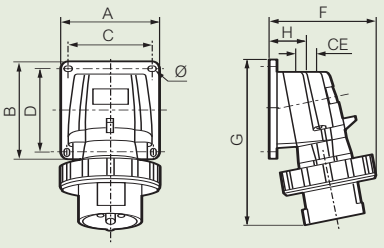
	Weight (kg)	A (mm)	B (mm)	Ø clamping and grip (mm)
LV 16 A				
2 P + ⏚	0·180	122	72·5	8 to 14
3 P + ⏚	0·215	126	81	8 to 14
3 P + N + ⏚	0·275	142	86·5	10 to 17·5
LV 32 A				
2 P + ⏚	0·320	152	94·5	10 to 17·5
3 P + ⏚	0·320	152	94·5	12 to 21·5
3 P + N + ⏚	0·387	158	101	12 to 21·5

■ Mobile sockets (p. 475)



	Weight (kg)	A (mm)	B (mm)	C (mm)	Ø clamping and grip (mm)
LV 16 A					
2 P + ⏚	0·180	139	72·5	78·5	8 to 14
3 P + ⏚	0·215	144	81	89·5	8 to 14
3 P + N + ⏚	0·275	160	86·5	92	10 to 17·5
LV 32 A					
2 P + ⏚	0·320	171	94·5	103	10 to 17·5
3 P + ⏚	0·320	171	94·5	103	12 to 21·5
3 P + N + ⏚	0·387	177	101	109	12 to 21·5

■ Appliance inlets (p. 475)



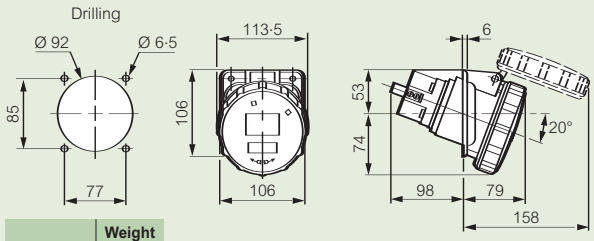
	Weight (kg)	A/B (mm)	C/D (mm)	F (mm)	G (mm)	H (mm)	CE (mm)	Ø clamping and grip (mm)
LV 16 A								
2 P + ⏚	0·188	84	72	87	126	34	M 20	4·3
3 P + ⏚	0·257	84	72	95	134	34	M 20	4·3
3 P + N + ⏚	0·297	84	72	100	141	34	M 20	4·3
LV 32 A								
2 P + ⏚	0·370	110	98	107	168	39	M 25	5·3
3 P + ⏚	0·370	110	98	107	168	39	M 25	5·3
3 P + N + ⏚	0·413	110	98	113	168	39	M 25	5·3

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 66/67 - LV 63 A
plastic

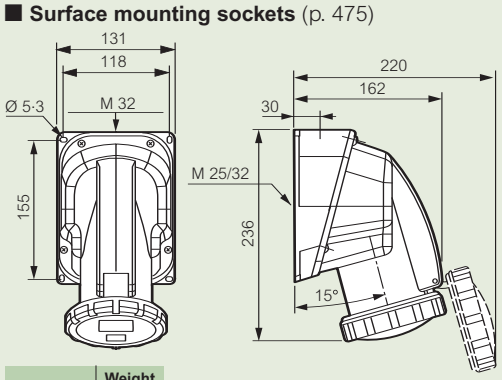
IP 66/67 conforms to BS EN 60529 and IEC 60529
Sockets IK 09 conform to BS EN 62262

■ Panel mounting sockets - inclined outlet (p. 475, 483)



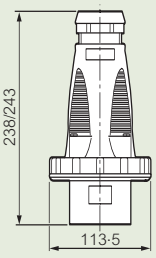
	Weight (kg)
3 P + ⏚	0·71
3 P + N + ⏚	0·77

■ Surface mounting sockets (p. 475)

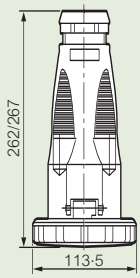


	Weight (kg)
3 P + ⏚	0·90
3 P + N + ⏚	0·95

■ Straight plugs (p. 475)

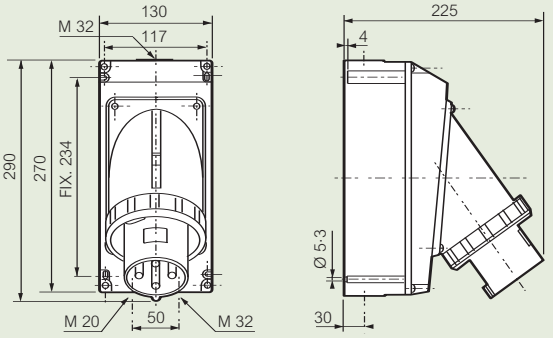


■ Mobile sockets (p. 475)



	Weight (kg)	
	Ø clamping and grip (mm)	Straight plugs	Mobile sockets
3 P + ⏚	19·3 to 28·5	0·57	0·78
3 P + N + ⏚	21·3 to 31·3	0·64	0·85

■ Appliance inlets (p. 475)

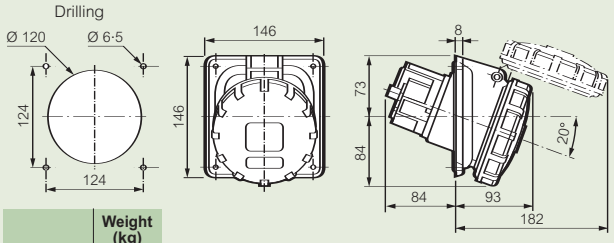


	Weight (kg)
3 P + ⏚	1·54
3 P + N + ⏚	1·61

P 17 Tempra® IP 66/67 - LV 125 A
plastic

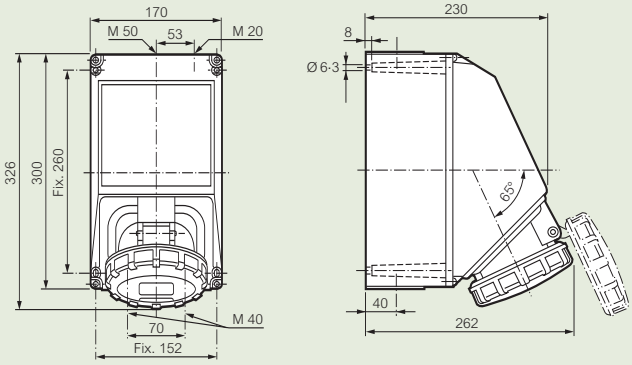
IP 66/67 conforms to BS EN 60529 and IEC 60529
Sockets IK 09 conform to BS EN 62262

■ Panel mounting sockets - inclined outlet (p. 475)



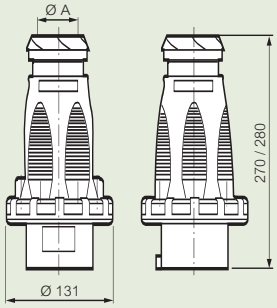
	Weight (kg)
3 P + ⏚	1
3 P + N + ⏚	1·2

■ Surface mounting sockets (p. 475)



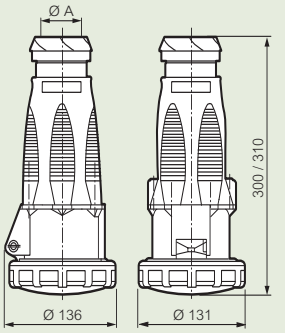
	Weight (kg)
3 P + ⏚	2·6
3 P + N + ⏚	2·73

■ Straight plugs (p. 475)



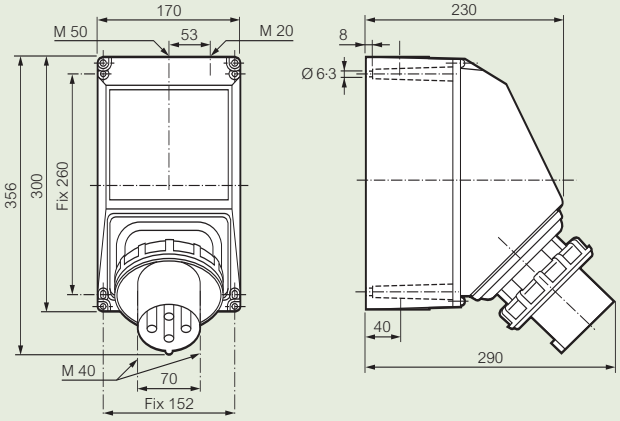
	Weight (kg)	Ø A clamping and grip (mm)
3 P + ⏚	1·1	26 to 43
3 P + N + ⏚	1·22	28·5

■ Mobile sockets (p. 475)



	Weight (kg)	Ø A clamping and grip (mm)
3 P + ⏚	1·4	26 to 43
3 P + N + ⏚	1·53	28·5

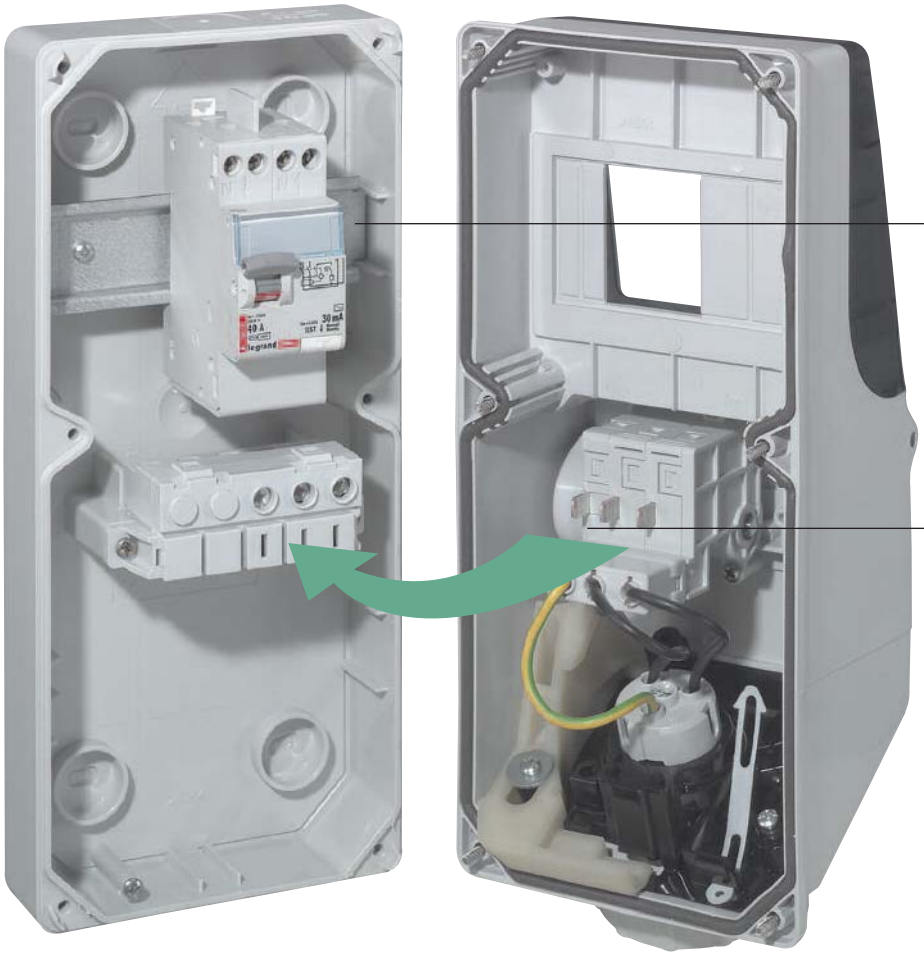
■ Appliance inlets (p. 475)



ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

The innovative modular solution

In addition to an outstanding range of plugs and sockets, P17 Tempra also incorporates a selection of modular combined units that blend safety with style. Installation is both quick and easy thanks to the units' unique plug-in design for automatic connection and the flexibility of mix and match components.



■ DIN rail for fixing Legrand Lexic modular protection devices

■ Plug in system

1. Fix the base on the wall
2. Wire the protection device and the base socket connection independently from the cover
3. Close the combined unit and plug in

SAFETY, FLEXIBILITY AND RELIABILITY



> Transparent window for instant visibility of protection devices



> Double mechanical interlocking switch cannot be turned on unless a plug is inserted. Plug cannot be removed when the switch is on

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44, IP 55 and IP 66 combined units

plastic surface mounting LV 16/32/63 A

16/32 A INTERLOCKED SWITCHED SOCKETS

IK 08 according to BS EN 62262
Self-extinguishing : 650 °C
according to IEC 60695-2-1
Temp. rating : –20 °C to +100 °C
without protection device
(switch only)

Technical information and dimensions (p. 484)

			Without protection 125 x 220 mm				With DIN rail 125 x 280 mm			
			IP 44		IP 55		IP 44		IP 66	
										
			Pack	Cat. Nos	Pack	Cat. Nos	Pack	Cat. Nos	Pack	Cat. Nos
LV										
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	1	0566 00	1	0566 20	1	0566 40	1	0566 60
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	1	0566 01	1	0566 21	1	0566 41	1	0566 61
	32 A	2 P + ⏚	1	0566 09	1	0566 29	1	0566 49	1	0566 69
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	1	0566 05	1	0566 25	1	0566 45	1	0566 65
		3 P + N + ⏚	1	0566 06	1	0566 26	1	0566 46	1	0566 66
	32 A	3 P + ⏚	1	0566 13	1	0566 33	1	0566 53	1	0566 73
		3 P + N + ⏚	1	0566 14	1	0566 34	1	0566 54	1	0566 74

63 A INTERLOCKED SWITCHED SOCKETS

IK 08 according to BS EN 62262
Self-extinguishing : 650 °C
according to IEC 60695-2-1
Temp. rating : –20 °C to +100 °C
without protection device
(switch only)

Technical information and dimensions (p. 484)

			Without protection 125 x 421 mm		With DIN rail 125 x 501 mm	
			IP 66		IP 66	
						
			Pack	Cat. Nos	Pack	Cat. Nos
LV						
380 to 415 V 50/60 Hz	63 A	3 P + N + ⏚	1	0589 10	1	0572 99



Larger self assembly and factory configured units available on request

Contact us on 0845 605 4333

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44, IP 55 and IP 66/67 self assembly combined units

IK 08 according to BS EN 62262
Self-extinguishing : 650 °C according to IEC 60695-2-1
Temp. rating : –20 °C to +100 °C without protection device (switch only)

Technical information and dimensions (p. 485)

Example of composition


Base

+


Faceplate

+


Socket(s)

=


Combined unit (RCD extra, p. 357)

Note : Up to 9 socket units available on request

BASES FOR 125 x 220 MM FACEPLATES

16/32-63 A Surface mounting box		16/32-63 A 12 module rail		16/32-63 A 18 module rail	
Pack	Cat. Nos.	Pack	Cat. Nos.	Pack	Cat. Nos.
2	0577 10	1	0577 05	1	0577 06

125 x 220 MM FACEPLATES

		16-32 A		63 A(1)		16 A	
Pack	Cat. Nos.	Pack	Cat. Nos.	Pack	Cat. Nos.	Pack	Cat. Nos.
5	0577 15	5	0577 12	1	0577 17	5	0577 13(2)

SOCKETS AND MODULE ADAPTOR FOR SELF ASSEMBLY COMBINED UNITS

			Panel mounting sockets with modular fixing centres				Mosaic module adaptor	
			IP 44		IP 66/67		IP 55	
			Pack	Cat. Nos.	Pack	Cat. Nos.	Pack	Cat. Nos.
Mosaic module adaptor							8	0539 48
ELV								
20 to 25 V 50/60 Hz	16 A	2 P + ⏚	5	0552 45				
LV								
100 to 130 V 50/60 Hz	16 A	2 P + ⏚	5	0576 10	5	0576 50		
	32 A	2 P + ⏚	5	0576 08				
200 to 250 V 50/60 Hz	16 A	2 P + ⏚	10	0576 11	5	0576 51		
	32 A	2 P + ⏚	10	0576 12	5	0576 52		
380 to 415 V 50/60 Hz	16 A	3 P + ⏚	10	0576 17	5	0576 57		
		3 P + N + ⏚	10	0576 23	5	0576 63		
	32 A	3 P + ⏚	10	0576 18	5	0576 58		
		3 P + N + ⏚	10	0576 24	5	0576 64		
	63 A	3 P + ⏚			2	0587 24(1)		
		3 P + N + ⏚			2	0587 25(1)		

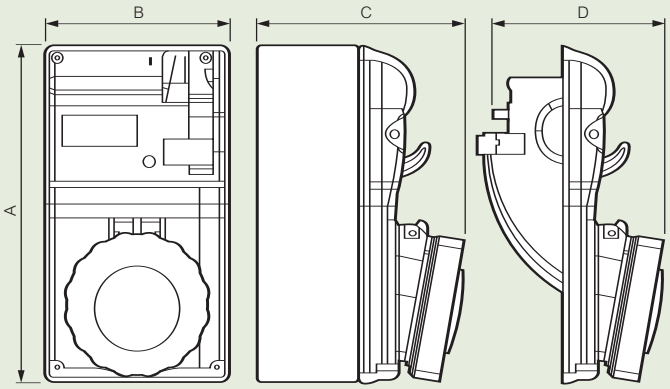
(1) Not modular 70 x 70 mm fixing centres, see p. 480 (2) Supplied with one blank plate

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

P 17 Tempra® IP 44, IP 55 and IP 66 combined units
plastic surface mounting 16/32/63 A

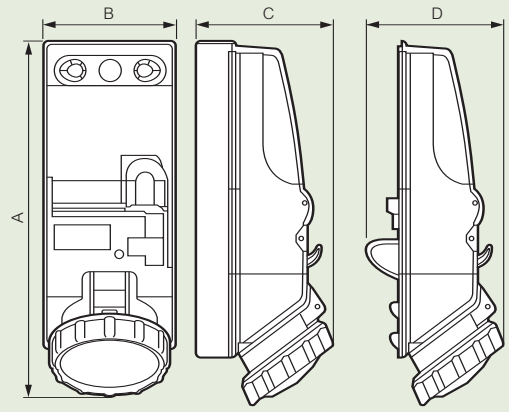
IP 44, IP 55, IP 66 according to IEC 60529
IK 08 according to BS EN 62262
Switch ratings, see p. 485

■ Interlocked switched sockets without protection - IP 44/IP 55
LV 16/32 A (p. 482)



		IP 44 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	IP 55 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
LV 16 A	2 P+ ⏚	0566 00/01	220	125	127	122	0566 20/21	220	125	133	128
	3 P+ ⏚	0566 05	220	125	129	124	0566 25	220	125	134	129
	3 P+N+⏚	0566 06	220	125	130	125	0566 26	220	125	135	130
LV 32 A	2 P+ ⏚	0566 09	220	125	138	133	0566 29	220	125	143	138
	3 P+ ⏚	0566 13	220	125	138	133	0566 33	220	125	143	138
	3 P+N+⏚	0566 14	220	125	139	134	0566 34	220	125	144	139

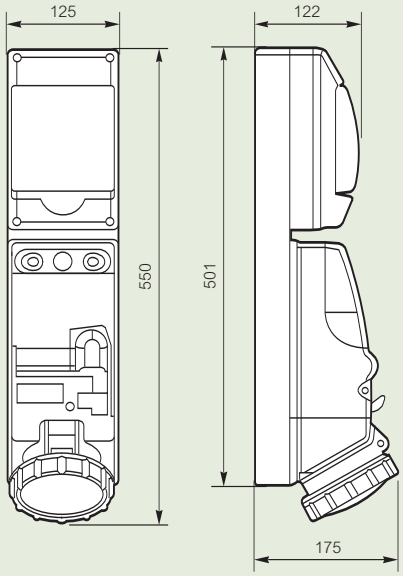
■ Interlocked switched sockets with DIN rail - IP 44/IP 66
LV 16/32 A (p. 482)



		IP 44 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)	IP 66 Cat. Nos.	A (mm)	B (mm)	C (mm)	D (mm)
LV 16 A	2 P+ ⏚	0566 40/41	290	125	155	135	0566 60/61	300	125	155	135
	3 P+ ⏚	0566 45	290	125	155	135	0566 65	300	125	155	135
	3 P+N+⏚	0566 46	290	125	155	135	0566 66	300	125	155	135
LV 32 A	2 P+ ⏚	0566 49	295	125	155	145	0566 69	310	125	155	145
	3 P+ ⏚	0566 53	295	125	155	145	0566 73	310	125	155	145
	3 P+N+⏚	0566 54	295	125	155	145	0566 74	310	125	155	145

■ Interlocked switched sockets with DIN rail - IP 66
LV 63 A (p. 482)

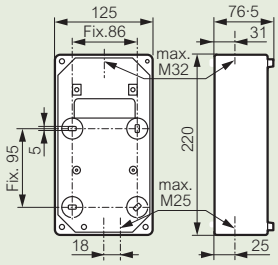
Cat. Nos. 0589 18/0572 99



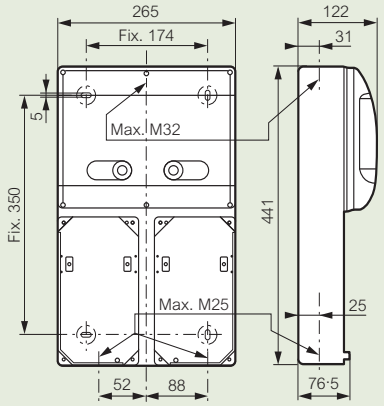
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

■ Box and bases without DIN rail (p. 483)

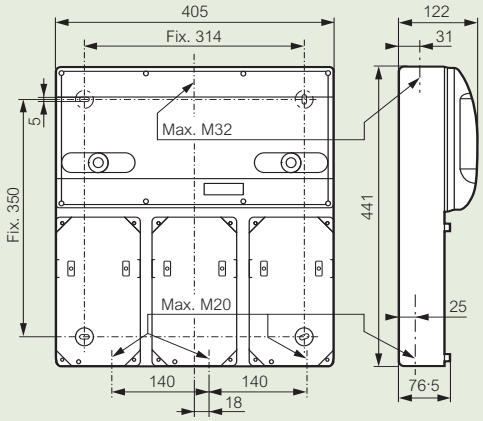
Box Cat. No. 0577 10



Base Cat. No. 0577 05

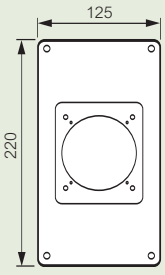


Base Cat. No. 0577 06

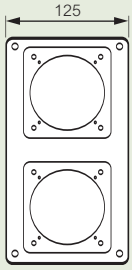


■ Faceplates modular fixing centre sockets (p. 483)

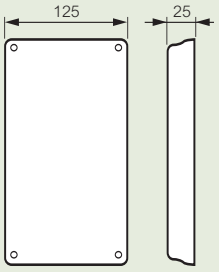
Cat. No. 0577 12



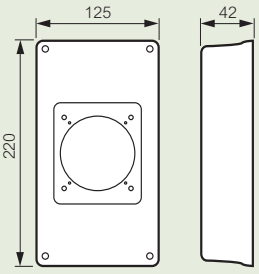
Cat. No. 0577 13



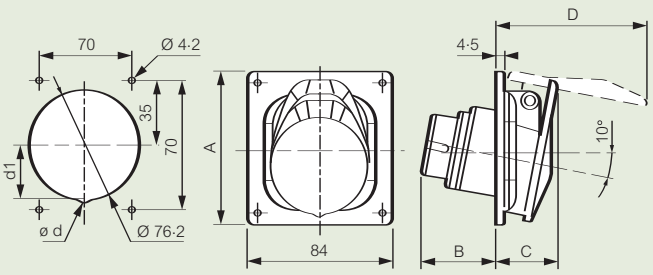
Cat. No. 0577 15



Cat. No. 0577 17

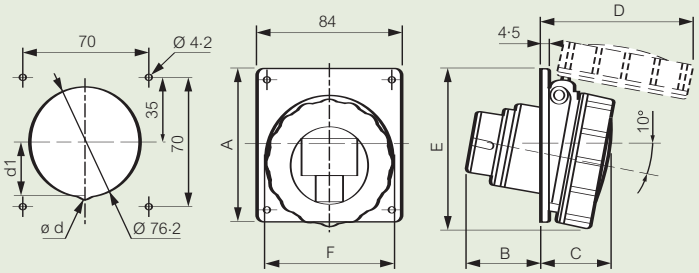


■ LV 16/32 A - IP 44 with modular fixing centres (p. 483)



		Cat. Nos.	Material	Weight (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	ød (mm)	d1 (mm)
16 A	2 P + ⏚	0576 10/11	Plastic	0·110	84	42	33	83.5	–	–
	3 P + ⏚	0576 17	Plastic	0·140	84	43	34.5	91.3	–	–
	3 P + N + ⏚	0576 23	Plastic	0·165	84	43	36.5	100	–	–
32 A	2 P + ⏚	0576 12	Plastic	0·220	94	54	44	112	–	–
	3 P + ⏚	0576 18								
	3 P + N + ⏚	0576 24	Plastic	0·255	94	54	45	120	8	36

■ LV 16/32 A - IP 66/7 with modular fixing centres (p. 483)



		Cat. Nos.	Material	Weight (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	ød (mm)	d1 (mm)
16 A	2 P + ⏚	0576 50/51	Plastic	0·140	84	42	39	83	90	72·5	–	–
	3 P + ⏚	0576 57	Plastic	0·165	84	43	41	98	93	81	–	–
	3 P + N + ⏚	0576 63	Plastic	0·195	84	43	41	99	91	86·5	–	–
32 A	2 P + ⏚	0576 52	Plastic	0·240	94	54	50	113	101	94·5	–	–
	3 P + ⏚	0576 58										
	3 P + N + ⏚	0576 64	Plastic	0·270	94	54	51	120	103	101	8	36

■ P 17 switch ratings (p. 482)

Usage category	400 V∿ 3 phase		
	16 A	32 A	63 A
AC23	8·4 kW	16·8 kW	
AC22			33 kW
AC23B			33 kW

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Conform to BS EN 60309-1, BS EN 60309-2, IEC 60309-1 and IEC 60309-2

■ Voltage identification

Colours specified by standards and the clock indexing of the contact tubes in socket outlets

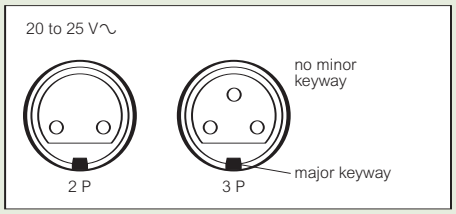
■ With Legrand Hypra and P 17 Tempra industrial plugs and sockets, your installations will comply fully with international standards :

- Standard IEC 60309-1 : this defines the safety regulations (protection of workers) which should be observed in the manufacture of industrial power sockets and plugs
- Standard IEC 60309-2 : this defines the interchangeability regulations for the dimensions of equipment with pins and sockets

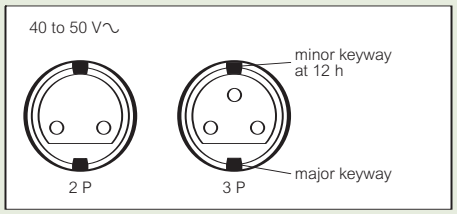
These safety regulations, together with the requirements of standard BS EN 60309-1, define the safety conditions necessary for normal operation. It is prudent to go one step further and insist on equipment which ensures the safety of the persons as a priority as well as ease of operation. Many manufacturers therefore use sockets which incorporate a switch, to avoid on-load disconnection (eg : Hypra Prisinter).

ELV by position of the minor keyway

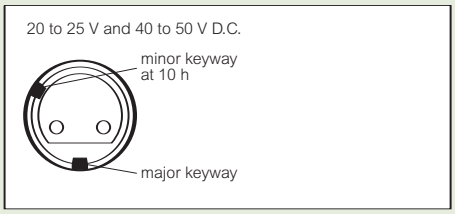
24 V∿ 50 – 60 Hz Violet



42 V∿ 50 – 60 Hz White

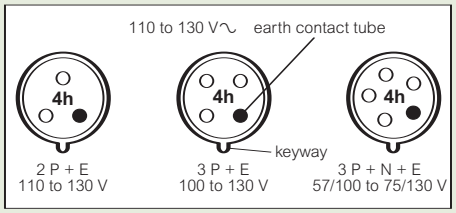


42 V⎓ White

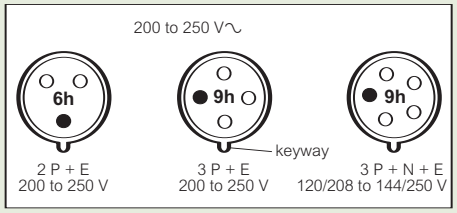


LV by the position of the earth contact tube in relation to the major keyway in the socket outlets

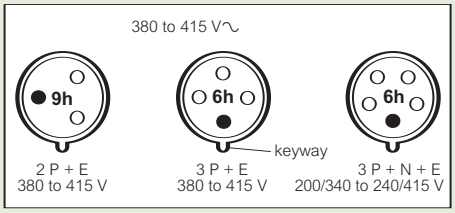
110 V∿ 50 – 60 Hz Yellow



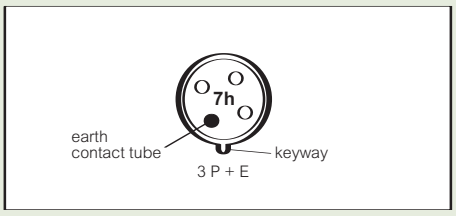
230 V∿ 50 – 60 Hz Blue



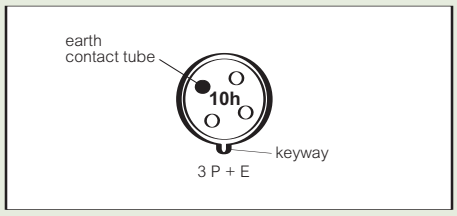
400 V∿ 50 – 60 Hz Red



500 V∿ 50 – 60 Hz Black



> 50 to 500 V∿
100 to 300 Hz inclusive Green



■ Terminal connection capacity, Prisinter rating and contact sizes

• Terminal connection capacity

	Hypra/P 17 Tempra
ELV 16/32 A	1 x 10 mm (A + B)
LV 16 A	1 x 4 mm (A) 1 x 2·5 mm (B)
LV 32 A	1 x 10 mm (A) 1 x 6 mm (B)
LV 63 A	1 x 25 mm (A) 1 x 16 mm (B)
LV 125 A	1 x 70 mm (A) 1 x 50 mm (B)

(A) Panel mounting sockets
(B) Mobile sockets and plugs

• Hypra Prisinter breaking capacity for 3 x 400 V∿ according to IEC 60947-1-3

Category	16 A	32 A	63 A
AC 1	16 A	32 A	63 A
AC 23	8·4 kW	16.8 kW	33 kW
AC 3	8·4 kW	16.8 kW	33 kW

• Diameters of pins or contact tubes (mm)

		16 A	32 A	63 A	125 A
24 V∿ 42 V∿ 42 V⎓	Phase	6	6	–	–
110 V∿ 230 V∿ 400 V∿ 440 V∿ 500 V∿	Phase + Neutral	5	6	8	10
	Earth	7	8	10	12
	Pilot	–	–	6	6

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
0010 00	
0013 01	350
02	–
04	–
06	–
08	–
98	–
0016 61	350
64	129
90	382
91	–
0017 02	350
04	–
06	–
08	–
11	–
12	–
13	–
66	–
68	–
69	–
71	–
0031 43	363
0032 66	130
68	–
70	–
71	–
73	–
74	–
75	–
76	–
0033 82	130
84	–
86	–
87	–
89	–
90	–
91	–
92	–
0037 00	368
21	374
30	370
40	–
52	–
0040 33	375
38	–
41	–
49	–
50	–
53	–
54	–
55	–
68	–
69	–
70	–
75	–
77	–
78	–
85	–
0041 11	363
13	–
0042 20	363
25	–

Cat. Nos.	Page No.
0042 37	363
51	–
52	–
53	–
54	–
0043 02	356
05	–
10	–
14	–
22	–
23	–
25	–
26	–
31	–
36	–
38	–
42	–
45	–
50	–
55	–
58	–
62	–
65	–
70	–
75	–
78	–
82	–
83	–
85	–
0044 09	369
16	402
17	–
32	363
33	–
36	–
37	–
40	375
41	382
42	356
43	–
53	363
54	–
55	–
58	–
63	–
64	–
68	–
83	–
84	–
85	–
86	–
87	–
88	–
0046 00	377
02	–
10	–
13	–
15	–
17	–
18	–
20	–
21	–
22	–
24	–

Cat. Nos.	Page No.
0046 25	377
31	–
34	–
36	–
38	–
45	–
46	–
50	–
52	–
53	–
60	–
63	–
64	–
65	378
72	–
73	–
74	–
81	–
91	–
94	–
0047 02	374
61	365
63	–
64	372
67	–
70	365
71	–
72	–
73	–
75	377
76	–
77	–
78	–
81	365
95	416
97	–
98	–
0048 01	440
03	–
05	–
06	–
07	–
10	–
11	–
12	–
14	–
18	–
19	–
20	–
22	–
24	–
25	–
30	–
32	349
32	–
34	440
35	–
36	–
38	–
40	–
42	349
44	–
45	–
46	–

Cat. Nos.	Page No.
0048 48	440
50	–
52	–
54	–
55	–
56	–
58	–
79	441
80	–
81	–
82	–
84	–
85	–
86	–
88	–
0049 05	382
06	–
26	–
37	–
38	–
39	–
42	–
43	–
44	–
45	–
83	349
88	382
96	–
0050 00	
0057 90	382
91	365
96	382
99	–
0058 04	381
06	–
08	–
16	–
18	–
26	–
28	–
36	–
38	–
40	130
41	–
42	–
43	–
46	381
48	–
0061 56	130
58	–
60	–
61	–
63	–
64	–
65	–
66	–
0063 72	130
74	–
76	–
77	–
79	–
80	–
81	–

Cat. Nos.	Page No.
0063 82	130
83	358
0064 75	–
76	–
77	–
95	–
96	–
97	–
0065 70	358
71	–
72	–
75	–
76	–
77	–
78	–
79	–
81	–
83	–
84	–
85	–
86	–
87	–
88	–
89	–
0066 25	358
26	–
27	–
28	–
29	–
31	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
40	–
41	–
42	–
45	–
46	–
47	–
48	–
49	–
51	–
53	–
54	–
55	–
56	–
57	–
58	–
59	–
60	–
61	–
62	–
65	–
66	–
67	–
68	–
69	–
71	–
73	–
74	–

Cat. Nos.	Page No.
0066 75	358
76	–
77	–
78	–
79	–
80	–
81	–
82	–
91	–
92	–
93	–
95	–
97	–
0067 00	358
01	–
02	–
03	–
04	–
05	–
06	–
52	–
53	–
54	–
56	–
58	–
60	–
61	–
62	–
63	–
64	–
65	–
66	–
72	–
73	–
74	–
76	–
78	–
80	–
82	–
83	–
84	–
85	–
86	–
0068 32	358
33	–
34	–
36	–
38	–
40	–
41	–
42	–
43	–
44	–
45	–
46	–
52	–
53	–
54	–
56	–
58	–
60	–
61	–
62	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
0068 63	358
64	–
65	–
66	–
0069 12	358
13	–
14	–
16	–
18	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
32	–
33	–
34	–
36	–
38	–
40	–
41	–
42	–
43	–
44	–
45	–
46	–
92	–
93	–
94	–
96	–
98	–
0070 00	358
01	–
02	–
03	–
04	–
05	–
06	–
0073 50	359
51	–
53	–
54	–
0077 31	130
32	–
33	–
34	–
36	–
37	–
38	–
39	–
40	–
41	–
43	–
44	–
45	359
46	–
47	–
77	–
78	–
80	–
81	–
83	–

Cat. Nos.	Page No.
0077 84	359
0078 79	359
81	–
83	–
84	–
86	–
87	–
88	–
89	–
90	–
94	–
95	–
97	–
98	–
99	–
0079 00	359
01	–
11	–
19	–
20	–
21	–
22	–
29	–
30	–
31	–
62	–
64	–
65	–
66	–
67	–
75	–
76	–
77	–
78	–
79	–
80	–
0080 13	359
14	–
15	–
31	–
32	–
33	–
0086 96	357
0087 14	357
0089 06	357
09	–
10	–
11	–
12	–
15	–
16	–
17	–
18	–
27	–
28	–
29	–
30	–
35	–
93	–
94	–
95	–
96	–
99	–
0090 00	357
01	–

Cat. Nos.	Page No.
0090 02	357
11	–
12	–
13	–
14	–
18	–
19	–
23	–
24	–
25	–
26	–
53	–
56	–
57	–
58	–
59	–
74	–
75	–
76	–
77	–
82	–
0091 40	357
41	–
42	–
43	–
46	–
47	–
48	–
49	–
58	–
59	–
60	–
61	–
65	–
66	–
71	–
72	–
73	–
0100 00	
0102 02	383
05	–
06	–
10	–
12	–
16	–
20	–
25	–
30	–
40	–
45	–
50	–
55	–
63	–
80	130
81	–
82	–
83	–
96	383
0105 82	147
83	151
0107 80	147
81	–
82	–
83	–
0113 10	384
0120 01	384

Cat. Nos.	Page No.
0120 02	384
04	–
06	–
08	–
10	–
0123 00	383
01	–
02	–
04	–
06	–
08	–
10	–
12	–
16	–
20	384
0130 01	384
02	–
04	–
06	–
08	–
10	–
12	–
16	–
20	–
25	–
92	–
95	–
0133 00	383
01	–
02	–
04	–
06	–
08	–
10	–
12	–
16	–
20	–
25	–
32	384
94	383
0140 04	384
06	–
10	–
12	–
16	–
20	–
25	–
32	–
40	–
45	–
50	–
0143 00	383
02	–
04	–
06	–
10	–
16	–
20	–
25	–
32	–
40	–
50	–
0150 32	384
40	–

Cat. Nos.	Page No.
0150 50	384
63	–
80	–
96	–
97	–
0151 32	384
40	–
50	–
63	–
80	–
95	–
97	–
0153 00	383
04	–
06	–
10	–
16	–
20	–
25	–
32	–
40	–
50	–
63	–
80	–
96	–
97	–
0160 00	386
01	–
04	–
05	–
18	385
20	–
25	–
40	–
45	–
50	–
0162 00	386
04	–
0163 04	385
18	–
20	–
25	–
30	–
35	–
40	–
45	–
50	–
55	–
0165 00	386
02	–
03	–
35	385
40	–
45	–
50	–
55	–
0168 04	385
45	–
50	–
55	–
60	–
0170 00	386

Cat. Nos.	Page No.
0170 02	386
03	–
50	385
55	–
60	–
65	–
0173 04	385
50	–
55	–
60	–
65	–
0174 60	385
65	–
0175 00	386
02	–
03	–
60	385
65	–
70	–
75	–
0178 04	385
60	–
65	–
70	–
75	–
0181 04	385
25	–
30	–
0185 30	385
35	–
40	–
45	–
0199 02	386
09	–
15	–
16	–
17	–
20	–
21	–
22	–
23	–
0200 00	
0215 01	381
03	–
04	–
05	–
0216 00	381
01	–
04	–
05	–
0249 01	432
0250 00	328
01	–
02	–
03	–
04	–
05	–
06	–
16	–
17	–

Cat. Nos.	Page No.
0250 18	328
19	–
20	–
21	–
24	–
25	–
26	–
27	–
28	–
29	–
36	–
37	–
38	–
39	–
40	–
41	–
44	–
45	–
46	–
47	–
48	–
49	–
50	–
51	–
52	–
53	–
54	–
55	–
58	–
59	–
60	–
61	–
62	–
63	–
98	–
99	–
0252 01	329
02	–
03	–
04	–
05	–
06	–
11	–
12	–
13	–
14	–
15	–
16	–
21	–
22	–
23	–
24	–
25	–
26	–
30	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
96	–
97	–

Cat. Nos.	Page No.
0252 98	329
99	–
0253 30	330
31	–
32	–
47	–
48	–
49	–
54	–
55	–
56	–
71	–
72	–
73	–
98	–
99	–
0255 21	331
22	–
23	–
24	–
36	–
37	–
38	–
40	–
41	–
42	–
43	–
44	–
56	–
57	–
58	–
60	–
88	–
89	–
96	–
97	–
0257 92	332
93	–
94	–
95	–
0258 00	332
01	–
02	–
07	–
08	–
09	–
14	–
15	–
16	–
21	–
22	–
23	–
99	328
0260 14	328
38	329
54	330
55	–
60	331
61	–
64	–
65	–
0261 60	332
64	–

Cat. Nos.	Page No.
0261 65	332
66	–
67	–
68	–
70	–
71	–
72	–
73	–
74	–
76	–
80	–
81	–
82	–
83	–
84	–
86	–
0262 00	328
01	–
05	–
06	–
07	–
11	329
21	330
22	–
25	–
26	–
27	–
30	–
35	–
40	331
41	–
44	–
45	–
50	–
51	–
60	332
61	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
75	328
77	329
79	330
81	331
83	332
85	329
86	–
88	–
90	329
91	329
0300 00	
0319 13	452
16	452
19	452
20	452
21	452
22	452
25	452
50	452

Cat. Nos.	Page No.
0319 55	452
96	–
0320 12	452
15	–
22	–
24	–
30	–
31	–
32	–
37	–
38	–
39	–
40	–
42	–
43	–
65	–
70	–
72	–
88	–
0329 94	19
0342 11	110
13	–
15	–
17	–
19	–
21	–
23	–
25	–
27	–
0343 22	110
23	–
25	–
28	–
98	–
0344 18	400
82	–
87	–
90	–
91	–
92	–
0346 09	400
23	–
33	–
0347 45	402
50	–
95	393
96	–
0348 00	405
01	–
02	–
04	–
05	–
17	–
34	–
35	–
36	–
47	–
50	–
51	–
52	–
88	–
89	–
0349 50	400
59	–

Cat. Nos.	Page No.
0350 00	
0350 07	411
13	–
17	–
22	–
28	–
33	–
43	413
44	411
47	–
54	413
58	–
90	–
92	–
93	–
94	–
0352 00	396
01	–
02	–
03	–
05	–
06	–
11	–
13	–
14	–
15	–
16	–
21	–
22	–
23	–
25	–
26	–
31	–
33	–
0354 92	393
93	–
94	–
95	–
96	–
97	–
0355 00	392
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
10	–
12	–
14	–
15	–
16	–
17	–
18	–
20	–
21	–
22	–
23	–
24	–
26	–
27	–
28	–

Cat. Nos.	Page No.
0355 29	392
30	–
31	–
32	–
33	–
34	–
36	–
37	–
90	–
91	–
92	–
93	–
94	–
95	–
96	–
97	–
98	–
0358 00	411
01	–
02	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
0359 00	411
01	–
30	–
31	–
40	–
41	–
50	–
51	–
60	–
70	–
71	–
72	–
73	–
80	–
81	–
90	–
91	–
92	–
0360 01	401
02	–
04	–
05	–
06	–
09	–
12	–
14	–
15	–
16	–
17	–
18	–
19	–
21	–
22	–
24	–
25	–
31	–
33	–
34	–
40	–
42	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
0360 43	401
47	–
49	–
52	–
54	–
55	–
56	–
57	–
58	–
59	–
60	–
61	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
71	–
0361 00	401
01	–
02	–
03	–
05	–
06	–
09	–
50	402
51	–
52	–
53	–
54	–
55	–
56	–
58	–
59	–
0362 40	398
42	–
44	–
46	400
48	–
50	398
51	–
52	–
55	–
56	–
61	–
63	–
64	–
71	–
72	–
75	–
76	–
81	–
83	–
84	–
85	400
86	–
87	–
91	398
92	–
93	–
94	–

Cat. Nos.	Page No.
0362 95	398
96	400
97	–
0363 00	393
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
29	–
30	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
40	–
41	–
42	–
43	–
44	–
45	–
46	–
47	–
48	–
49	–
50	–
51	–
52	–
53	–
54	–
55	–
56	–
58	–
59	–
60	–
61	–
62	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
71	–
72	–
73	–
74	–
75	–
76	–
77	–
78	–

Cat. Nos.	Page No.
0368 17	404
18	–
19	–
20	–
22	–
23	–
24	–
25	–
26	–
27	–
43	–
44	–
0370 10	444
11	–
12	–
13	–
14	–
61	–
62	–
63	–
64	–
66	–
67	–
68	–
69	–
70	–
71	–
0373 08	442
60	443
61	–
62	–
65	–
88	–
89	–
95	442
96	443
98	–
0374 00	442
02	402
03	442
04	432
07	402
19	443
30	442
31	–
33	443
34	–
35	442
37	443
38	–
0376 41	447
42	–
43	–
44	–
45	–
49	–
50	–
51	–
53	–
54	–
55	–
59	–
60	–
61	–
62	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
71	–

Cat. Nos.	Page No.
0376 80	447
81	–
82	–
83	–
84	–
87	–
88	–
89	–
90	–
91	–
92	–
96	–
97	–
98	–
99	–
0381 00	450
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
29	–
30	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
40	–
41	–
42	–
43	–
44	–
45	–
46	–
47	–
48	–
49	–
50	–
51	–
52	–
53	–
54	–
55	–
56	–
58	–
59	–
60	–
61	–
62	–
63	–
64	–
65	–

Cat. Nos.	Page No.
0382 00	447
01	451
02	–
03	–
04	–
08	–
10	450
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
28	–
30	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
70	–
71	–
72	–
73	–
74	–
75	–
76	–
77	–
78	–
80	–
81	–
85	–
86	–
90	–
91	–
92	–
93	–
94	–
95	–
96	–
0383 00	450
01	–
02	–
03	–
04	–
05	–
06	–

Cat. Nos.	Page No.
0383 07	450
08	–
09	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
30	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
40	–
41	–
42	–
43	–
44	–
45	–
46	–
47	–
48	–
49	–
50	–
51	–
52	–
53	–
54	–
55	–
60	–
61	–
62	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
71	–
72	–
73	–
74	–
75	–
76	–
77	–
78	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
0383 79	450
80	–
81	–
82	–
83	–
84	–
85	–
92	451
94	–
95	–
96	–
97	–
0384 90	451
91	–
92	–
0390 00	430
01	–
02	–
10	438
11	–
13	–
14	–
15	–
17	–
18	–
20	–
21	–
31	–
32	–
33	–
34	–
51	430
52	431
60	430
61	–
62	–
64	–
66	–
68	–
70	–
76	–
77	–
78	–
80	–
82	–
84	–
85	–
86	–
88	–
0393 00	430
01	–
02	–
04	–
07	–
09	432
11	–
13	–
15	–
38	430
39	–
45	432
46	–
48	–
49	–

Cat. Nos.	Page No.
0393 62	431
64	–
70	–
71	–
72	–
73	–
74	–
76	–
78	–
81	–
82	–
84	432
87	–
88	–
0394 00	432
02	–
03	–
05	433
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
20	–
21	–
22	–
23	–
26	–
31	–
34	–
35	–
37	–
38	–
40	–
41	–
43	–
44	–
46	438
47	–
49	402
50	432
51	–
52	–
53	–
55	–
66	–
67	–
69	–
73	–
74	–
75	–
77	438
78	–
80	433
81	–
82	432
86	438
88	–
89	–
92	433
93	–

Cat. Nos.	Page No.
0393 94	433
95	–
0395 00	437
01	–
02	–
05	–
06	–
09	–
10	–
15	–
16	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
27	–
30	–
31	–
32	–
33	–
36	–
43	–
48	–
49	–
50	–
58	–
59	–
60	–
61	–
62	–
63	–
85	–
0400 00	
0408 01	123
0412 19	123
43	–
0416 04	123
05	–
25	–
46	–
0420 25	123
0427 85	421
86	–
87	–
88	–
89	–
90	–
92	–
0428 40	421
41	–
42	–
43	–

Cat. Nos.	Page No.
0428 44	421
45	–
70	–
71	–
74	–
75	–
77	–
0442 31	419
32	–
33	–
34	–
35	–
36	–
37	–
38	–
39	–
40	–
61	–
62	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	–
71	–
0450 00	
0470 01	416
02	–
03	–
04	–
20	–
21	–
22	–
23	–
24	–
25	–
52	–
53	–
54	–
55	–
0496 80	369
82	–
0497 50	371
52	–
54	–
56	–
58	–
0498 32	369
0499 81	371
0500 00	
0502 04	108
82	–
0503 03	108
0511 25	460
26	–
30	–
31	–

Cat. Nos.	Page No.
0511 46	460
50	–
51	–
55	–
56	–
60	–
61	–
75	–
76	–
80	–
81	–
86	–
91	–
0515 32	108
0519 10	457
19	456
20	–
30	–
40	–
70	457
80	–
0520 02	457
03	–
04	–
12	–
18	456
19	–
20	–
22	–
23	–
24	–
28	460
29	456
32	–
33	–
34	–
39	–
42	–
43	–
44	–
49	457
59	–
62	456
64	–
69	457
72	456
73	457
79	–
82	–
83	–
89	456
92	457
93	–
94	–
0521 01	457
25	–
26	–
27	–
52	456
53	–
54	–
62	457
63	–
64	–

Cat. Nos.	Page No.
0521 72	457
73	–
74	–
96	–
0522 03	457
04	–
13	–
14	–
19	456
20	–
23	–
24	–
29	–
29	460
33	456
34	–
39	–
43	–
44	–
49	457
53	456
54	–
59	457
63	456
64	–
69	457
73	456
74	–
79	457
83	–
84	–
89	456
93	457
94	–
0524 01	456
02	–
03	–
05	–
19	–
21	–
22	–
25	–
41	–
42	–
61	457
62	–
73	–
81	–
85	–
0527 02	457
03	–
05	–
06	–
13	–
18	456
19	–
32	–
32	–
33	–
42	–
43	–
62	–
63	–
72	–
82	457

Cat. Nos.	Page No.
0527 83	457
92	–
93	–
99	–
0528 53	456
54	–
62	457
63	–
64	–
72	–
73	–
74	–
0529 03	457
04	–
06	–
07	–
13	–
14	–
19	456
20	–
33	–
34	–
39	–
40	–
43	–
44	–
49	457
53	456
54	–
59	457
63	456
64	–
69	457
74	456
79	457
83	–
84	–
90	456
93	457
94	–
0530 46	460
50	–
51	–
56	–
60	–
61	–
76	–
80	–
81	–
0536 03	457
04	–
99	–
0537 06	457
07	–
23	456
24	–
33	–
34	–
49	457
63	–
64	–
73	–
74	–
77	460

Cat. Nos.	Page No.
0537 78	460
0538 00	457
01	–
09	–
23	456
24	–
27	460
28	–
33	456
34	–
37	460
38	–
43	456
44	–
47	460
48	–
63	456
64	–
69	457
73	456
74	–
79	457
83	–
84	–
87	460
88	–
89	456
93	457
94	–
0550 00	
0552 06	475
07	–
11	–
21	–
0552 22	475
31	–
45	–
0553 00	475
03	–
07	–
08	–
23	–
27	–
28	–
50	–
51	–
53	–
57	–
58	–
77	–
0555 50	475
53	–
57	–
58	–
73	–
77	–
78	–
0562 00	475
03	–
07	–
08	–

Cat. Nos.	Page No.
0562 23	475
27	–
28	–
0563 00	475
03	–
07	–
08	–
23	–
27	–
28	–
0566 00	482
01	–
05	–
06	–
09	–
13	–
14	–
20	–
25	–
26	–
29	–
33	–
34	–
40	–
41	–
45	–
46	–
49	–
53	–
54	–
60	–
61	–
65	–
66	–
69	–
73	–
74	–
0572 99	482
0573 51	475
54	–
58	–
59	–
0574 22	475
31	–
34	–
38	–
39	–
0575 02	475
11	–
14	–
18	–
19	–
81	–
84	–
88	–
89	–
0576 08	475
10	–
11	–
12	–
17	–
18	–
23	–

Cat. Nos.	Page No.
0576 24	475
50	–
51	–
52	–
57	–
58	–
63	–
64	–
0577 05	483
06	–
10	–
12	–
13	–
15	–
17	–
0580 58	475
59	–
0581 21	475
34	–
38	–
39	–
0582 01	475
14	–
18	–
19	–
84	–
88	–
89	–
0587 00	475
04	–
05	–
10	–
14	–
15	–
20	–
24	–
25	–
30	–
34	–
0587 35	475
40	–
44	–
45	–
0589 10	482
0591 02	460
03	–
04	470
05	–
06	475
07	–
12	460
13	–
16	475
17	–
22	460
23	–
26	475
27	–
32	460
33	–
36	475
37	–
42	460
43	–

Cat. Nos.	Page No.
0591 44	460
45	–
47	475
0592 00	469
03	–
07	–
09	–
14	–
16	–
19	–
24	–
25	–
26	–
28	–
29	–
34	–
35	–
36	470
37	–
43	469
47	–
49	–
56	–
59	–
60	470
61	–
62	–
63	–
64	–
65	–
81	–
83	469
84	–
85	–
86	–
0596 01	469
02	–
03	–
05	–
07	–
08	–
10	–
15	–
51	470
52	–
53	–
55	–
57	–
58	–
60	–
61	–
62	–
63	–
65	–
67	–
68	–
0598 43	–
44	–
0600 00	
0600 55	121
56	–
58	–
61	–
62	–

Cat. Nos.	Page No.
0600 64	121
65	–
75	–
77	–
78	–
81	122
84	–
85	–
86	–
87	–
89	–
90	–
94	–
96	–
0601 94	121
0611 10	108
11	–
25	–
26	–
30	–
31	–
49	–
0620 66	119
68	–
83	–
85	–
86	–
88	–
89	–
93	–
95	–
0621 53	119
56	–
57	–
58	–
75	120
76	–
0700 00	
0733 01	87
05	–
12	–
0740 01	86
02	–
04	–
09	–
11	–
12	–
18	–
19	–
20	–
21	–
26	91
30	86
31	–
35	–
36	–
37	–
40	–
41	–
50	–
51	–
61	–
62	–

Cat. Nos.	Page No.
0740 68	97
69	–
0741 00	86
02	–
06	–
08	–
11	–
20	–
22	98
23	–
24	86
25	98
26	–
27	–
30	86
38	–
39	–
40	–
45	98
46	–
47	–
48	–
52	86
67	–
69	–
80	–
0742 80	88
81	–
85	–
86	–
88	–
89	–
90	–
91	–
92	–
93	–
0743 57	87
58	–
60	97
61	–
63	–
70	87
75	–
76	–
77	–
82	–
91	94
92	–
94	–
99	–
0744 05	90
06	–
20	91
25	–
26	–
31	92
35	91
37	–
45	92
47	–
48	–
50	89
55	–
57	–

Cat. Nos.	Page No.
0744 59	89
72	91
0745 50	97
51	–
52	–
56	–
57	–
58	–
70	–
71	–
72	–
73	–
74	–
80	–
0747 00	89
01	–
02	–
03	–
05	–
22	–
25	–
30	–
31	–
32	–
33	–
34	–
50	–
52	–
56	–
0748 46	94
49	–
50	–
51	–
52	–
53	–
62	–
0750 00	
0750 26	95
27	–
28	–
29	–
55	99
56	–
57	–
58	–
59	99
60	–
0754 50	99
51	–
72	–
76	95
77	–
78	–
79	–
91	99
93	–
98	–
0755 50	99
51	–
72	–
76	95
77	–
78	–
79	–

Cat. Nos.	Page No.
0755 91	99
93	–
98	–
0787 53	87
54	88
57	–
58	–
63	–
0800 00	
0808 72	108
73	–
75	–
0811 77	36
0816 59	106
0818 52	81
53	81
54	–
55	81
56	95
57	81
58	–
59	–
0850 00	
0891 09	113
10	–
11	–
13	–
14	–
17	–
18	–
40	–
0893 07	204
12	113
13	–
23	97
0898 06	92
36	89
37	–
38	–
40	–
0899 01	89
02	–
06	–
07	–
11	–
12	–
16	–
17	–
0900 00	
0916 01	116
03	–
05	–
07	–
10	–
12	–
16	117
17	–
18	–
21	–

Cat. Nos.	Page No.
0916 22	117
27	116
43	–
60	–
61	–
71	–
74	117
75	–
76	–
77	–
78	–
79	–
86	–
87	–
90	–
91	–
93	–
94	–
95	–
96	–
0917 30	116
38	–
43	–
51	–
97	–
0919 45	119
0920 32	411
42	–
0921 00	410
01	–
04	–
22	413
26	410
28	411
36	410
38	411
0922 84	413
0980 03	115
1500 00	
1748 26	94
27	–
28	–
2000 00	
2002 49	396
50	–
51	–
52	–
53	–
54	–
55	–
3500 00	
3740 20	20
3742 00	20
3744 20	20
30	–
42	–
3749 00	20
3750 05	20
3757 10	20
20	–
30	–

Cat. Nos.	Page No.
3757 40	20
60	–
70	–
3759 10	20
17	–
20	–
27	–
70	–
80	–
6000 00	
6022 51	350
52	–
53	–
54	–
6025 01	323
02	–
03	–
11	–
12	–
13	–
21	–
22	–
23	–
31	–
32	–
33	–
41	–
42	–
43	–
6026 02	324
06	–
25	–
28	–
50	–
51	–
52	–
53	–
54	–
55	–
56	–
57	–
80	–
81	–
95	–
6027 10	357
11	–
6047 72	365
74	368
77	–
6059 12	133
13	–
18	133
19	–
6064 10	359
11	–
12	–
13	–
14	–
15	–
6065 01	129
02	–
04	–
06	–

Cat. Nos.	Page No.
6065 11	–
12	–
14	–
16	–
21	–
22	–
32	–
34	–
36	–
42	–
44	–
6071 00	348
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
30	349
31	–
50	348
51	–
52	–
53	–
54	–
55	–
56	–
57	–
58	–
59	–
60	–
61	–
62	–
63	–
64	–
65	–
66	–
67	–
68	–
69	–
70	349
72	–
75	–
76	–
80	324
81	–
82	–
83	349
6072 00	349
01	–
02	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
6072 03	349
04	–
05	–
06	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
6075 00	128
01	–
02	–
04	–
06	–
10	–
11	–
12	–
14	–
16	–
19	129
21	128
22	–
32	–
33	–
34	–
35	–
36	–
39	129
46	128
49	129
69	–
89	–
99	–
6204 27	146
28	147
44	148
45	149
46	150
47	151
48	152
49	153
54	144
55	142
57	145
58	143
6205 09	142
20	144
22	142
6206 01	146
02	147
10	142
17	148
18	143
20	151
21	146
22	147
25	151
28	148
29	143
30	142

Cat. Nos.	Page No.
6206 43	143
44	–
45	148
46	–
47	149
48	150
51	146
52	147
65	144
66	–
67	142
68	145
69	–
70	152
75	153
76	–
77	152
82	142
94	151
98	143
99	142
6207 01	146
02	147
10	144
11	145
13	142
14	143
16	148
17	149
18	151
19	153
21	152
31	146
32	147
45	148
46	–
47	149
48	150
49	151
54	143
55	144
56	143
57	144
58	145
59	142
60	–
6208 16	142
17	–
18	–
26	–
27	–
28	–
29	142
37	146
38	147
39	148
43	149
44	150
45	151
46	143
47	144
48	142
55	145
56	152

Cat. Nos.	Page No.
6208 57	153
6338 01	18
02	19
21	18
22	–
23	–
24	19
26	18
27	19
28	18
29	19
30	–
31	–
32	–
33	–
38	18
39	–
40	–
41	–
42	18
43	–
44	–
45	–
46	–
47	–
48	–
49	–
50	–
51	19
53	18
63	–
64	–
65	–
72	19
73	–
74	–
75	–
81	–
87	–
88	–
89	–
6339 80	88
81	–
91	19
92	–
93	–
6360 00	445
01	–
02	–
07	–
08	–
12	–
13	–
17	–
95	444
96	–
6361 00	444
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
11	–

Cat. Nos.	Page No.
6361 12	444
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
90	445
95	–
6362 02	444
07	–
12	–
13	–
17	–
25	–
93	–
94	–
6377 01	256
02	–
03	–
04	–
05	–
06	–
07	–
08	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
28	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
41	–
42	–
43	–
44	–
45	–
46	–

Cat. Nos.	Page No.
6377 51	256
52	–
53	–
54	–
55	–
56	–
57	–
58	–
60	–
61	–
62	–
63	–
64	–
65	–
66	259
67	–
68	–
69	–
70	–
71	–
72	–
73	–
74	–
75	–
81	–
82	–
83	–
84	–
85	–
88	256
90	–
91	–
93	259
6378 01	257
02	–
03	–
04	–
05	–
06	–
07	–
08	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
19	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
28	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
41	–
42	–
43	–
44	–
45	–
46	–

Cat. Nos.	Page No.
6378 41	257
42	–
43	–
44	–
45	–
46	–
47	–
48	–
51	–
52	–
53	–
54	–
55	–
56	–
57	–
58	–
60	256
70	–
71	–
72	–
73	–
74	–
75	–
88	257
90	–
91	–
6379 01	258
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
10	–
11	–
12	–
13	–
14	–
15	–
16	–
17	–
18	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
28	–
31	–
32	–
33	–
34	–
35	–
36	–
37	–
38	–
41	–
42	–
43	–
44	–
45	–
46	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

legrand

Cat. Nos.	Page No.
6379 47	258
48	–
50	259
51	–
52	–
53	–
54	–
55	–
56	–
57	–
60	258
63	–
64	–
68	259
70	258
71	–
72	–
73	–
74	–
76	259
77	–
78	–
79	–
80	–
81	–
83	–
84	–
85	–
86	–
87	–
88	258
90	–
93	259
94	260
95	–
96	–
97	–
98	–
6423 62	421
63	–
64	–
65	–
66	–
68	–
6425 00	421
02	–
03	–
04	–
05	–
06	–
40	–
42	–
43	–
44	–
45	–
46	–
48	–
60	–
62	–
63	–
64	–
65	–
66	–
68	–

Cat. Nos.	Page No.
6425 80	421
82	–
83	–
84	–
85	–
86	–
88	–
6426 00	421
02	–
03	–
05	–
06	–
07	–
08	–
10	158
11	–
12	–
13	–
14	–
15	–
16	–
17	–
20	–
21	–
22	–
23	–
24	–
25	–
26	–
27	–
50	159
51	–
52	–
53	–
54	–
55	–
56	–
57	–
58	–
59	–
60	–
70	–
71	–
72	–
73	–
74	–
75	–
76	–
77	–
78	–
79	–
80	–
6496 10	161
11	–
12	–
17	–
18	–
20	–
21	–
22	–
27	–
28	–
40	160

Cat. Nos.	Page No.
6496 41	160
42	–
43	–
44	–
45	–
46	–
47	–
48	–
50	–
51	–
52	–
53	–
54	–
55	–
56	–
57	–
58	–
70	161
71	–
80	–
81	–
90	–
91	–
92	–
93	–
94	–
6500 00	
6502 87	200
88	–
6603 07	122
6604 17	120
18	–
20	–
21	–
6745 18	88
19	–
32	108
56	95
58	–
59	–
60	–
87	97
6746 05	87
6749 80	97
81	–
82	–
83	–
84	–
85	–
86	–
87	–
88	–
89	–
90	–
91	–
92	–
93	–
94	–
95	–
96	–
97	–
98	–
99	–

Cat. Nos.	Page No.
6757 26	95
27	–
28	–
29	–
30	99
45	–
46	–
47	–
48	–
76	95
77	–
78	–
79	–
80	99
95	–
96	–
97	–
98	–
6846 03	115
04	–
05	–
06	–
12	–
19	–
26	–
29	–
35	–
36	–
38	–
45	–
6890 27	95
28	–
6915 06	118
08	–
09	–
7000 00	
7300 00	36
01	–
02	–
03	–
04	–
05	–
06	–
07	–
08	–
09	–
10	40
7300 10AC	44
7300 10AP	–
7300 10BL	–
7300 10BY	–
7300 10CG	–
7300 10CH	–
7300 10DW	–
7300 10EH	–
7300 10EX	–
7300 10FF	–
7300 10FN	–
7300 10FR	–
7300 10FY	–
7300 10FZ	–
7300 10HB	–
7300 10HR	–

Cat. Nos.	Page No.
7300 10MW	44
7300 10OO	–
7300 10OV	–
7300 10TD	–
7300 10TR	–
7300 10WD	–
7300 10WH	–
7300 10WM	–
7300 11	36
7300 12	40
7300 12AC	44
7300 12AP	–
7300 12BL	–
7300 12BY	–
7300 12CG	–
7300 12CH	–
7300 12DW	–
7300 12EH	–
7300 12EX	–
7300 12FF	–
7300 12FN	–
7300 12FR	–
7300 12FY	–
7300 12FZ	–
7300 12HB	–
7300 12HR	–
7300 12MW	–
7300 12OO	–
7300 12OV	–
7300 12TD	–
7300 12TR	–
7300 12WD	–
7300 12WH	–
7300 12WM	–
7300 14	40
7300 14AC	44
7300 14AP	–
7300 14BL	–
7300 14BY	–
7300 14CG	–
7300 14CH	–
7300 14DW	–
7300 14EH	–
7300 14EX	–
7300 14FF	–
7300 14FN	–
7300 14FR	–
7300 14FY	–
7300 14FZ	–
7300 14HB	–
7300 14HR	–
7300 14MW	–
7300 14OO	–
7300 14OV	–
7300 14TD	–
7300 14TR	–
7300 14WD	–
7300 14WH	–
7300 14WM	–
7300 15	40
7300 15AC	44
7300 15AP	–
7300 15BL	–
7300 15BY	–

Cat. Nos.	Page No.
7300 15CG	44
7300 15CH	–
7300 15DW	–
7300 15EH	–
7300 15EX	–
7300 15FF	–
7300 15FN	–
7300 15FR	–
7300 15FY	–
7300 15FZ	–
7300 15HB	–
7300 15HR	–
7300 15MW	–
7300 15OO	–
7300 15OV	–
7300 15TD	–
7300 15TR	–
7300 15WD	–
7300 15WH	–
7300 15WM	–
7300 16	40
7300 16AC	44
7300 16AP	–
7300 16BL	–
7300 16BY	–
7300 16CG	–
7300 16CH	–
7300 16DW	–
7300 16EH	–
7300 16EX	–
7300 16FF	–
7300 16FN	–
7300 16FR	–
7300 16FY	–
7300 16FZ	–
7300 16HB	–
7300 16HR	–
7300 16MW	–
7300 16OO	–
7300 16OV	–
7300 16TD	–
7300 16TR	–
7300 16WD	–
7300 16WH	–
7300 16WM	–
7300 18	40
19	–
20	–
21	–
22	–
23	–
26	–
27	–
28	–
29	–
30	39
7300 30AC	45
7300 30AP	–
7300 30BL	–
7300 30BY	–
7300 30CG	–
7300 30CH	–
7300 30DW	–
7300 30EH	–

Cat. Nos.	Page No.
7300 30EX	45
7300 30FF	–
7300 30FN	–
7300 30FR	–
7300 30FY	–
7300 30FZ	–
7300 30HB	–
7300 30HR	–
7300 30MW	–
7300 30OO	–
7300 30OV	–
7300 30TD	–
7300 30TR	–
7300 30WD	–
7300 30WH	–
7300 30WM	–
7300 31	39
7300 31AC	45
7300 31AP	–
7300 31BL	–
7300 31BY	–
7300 31CG	–
7300 31CH	–
7300 31DW	–
7300 31EH	–
7300 31EX	–
7300 31FF	–
7300 31FN	–
7300 31FR	–
7300 31FY	–
7300 31FZ	–
7300 31HB	–
7300 31HR	–
7300 31MW	–
7300 31OO	–
7300 31OV	–
7300 31TD	–
7300 31TR	–
7300 31WD	–
7300 31WH	–
7300 31WM	–
7300 32	39
7300 32AC	45
7300 32AP	–
7300 32BL	–
7300 32BY	–
7300 32CG	–
7300 32CH	–
7300 32DW	–
7300 32EH	–
7300 32EX	–
7300 32FF	–
7300 32FN	–
7300 32FR	–
7300 32FY	–
7300 32FZ	–
7300 32HB	–
7300 32HR	–
7300 32MW	–
7300 32OO	–
7300 32OV	–
7300 32TD	–
7300 32TR	–
7300 32WD	–

Cat. Nos.	Page No.
7300 32WH	45
7300 32WM	–
7300 33	39
7300 33AC	45
7300 33AP	–
7300 33BL	–
7300 33BY	–
7300 33CG	–
7300 33CH	–
7300 33DW	–
7300 33EH	–
7300 33EX	–
7300 33FF	–
7300 33FN	–
7300 33FR	–
7300 33FY	–
7300 33FZ	–
7300 33HB	–
7300 33HR	–
7300 33MW	–
7300 33OO	–
7300 33OV	–
7300 33TD	–
7300 33TR	–
7300 33WD	–
7300 33WH	–
7300 33WM	–
7300 34	39
7300 34AC	45
7300 34AP	–
7300 34BL	–
7300 34BY	–
7300 34CG	–
7300 34CH	–
7300 34DW	–
7300 34EH	–
7300 34EX	–
7300 34FF	–
7300 34FN	–
7300 34FR	–
7300 34FY	–
7300 34FZ	–
7300 34HB	–
7300 34HR	–
7300 34MW	–
7300 34OO	–
7300 34OV	–
7300 34TD	–
7300 34TR	–
7300 34WD	–
7300 34WH	–
7300 34WM	–
7300 35	39
7300 35AC	45
7300 35AP	–
7300 35BL	–
7300 35BY	–
7300 35CG	–
7300 35CH	–
7300 35DW	–
7300 35EH	–
7300 35EX	–
7300 35FF	–
7300 35FN	–

Cat. Nos.	Page No.
7300 35FR	45
7300 35FY	–
7300 35FZ	–
7300 35HB	–
7300 35HR	–
7300 35MW	–
7300 35OO	–
7300 35OV	–
7300 35TD	–
7300 35TR	–
7300 35WD	–
7300 35WH	–
7300 35WM	–
7300 36	39
7300 36AC	45
7300 36AP	–
7300 36BL	–
7300 36BY	–
7300 36CG	–
7300 36CH	–
7300 36DW	–
7300 36EH	–
7300 36EX	–
7300 36FF	–
7300 36FN	–
7300 36FR	–
7300 36FY	–
7300 36FZ	–
7300 36HB	–
7300 36HR	–
7300 36MW	–
7300 36OO	–
7300 36OV	–
7300 36TD	–
7300 36TR	–
7300 36WD	–
7300 36WH	–
7300 36WM	–
7300 37	39
7300 37AC	45
7300 37AP	45
7300 37BL	45
7300 37BY	45
7300 37CG	45
7300 37CH	45
7300 37DW	45
7300 37EH	45
7300 37EX	45
7300 37FF	45
7300 37FN	45
7300 37FR	45
7300 37FY	45
7300 37FZ	45
7300 37HB	45
7300 37HR	45
7300 37MW	45
7300 37OO	45
7300 37OV	45
7300 37TD	45
7300 37TR	45
7300 37WD	45
7300 37WH	45
7300 37WM	45
7300 38	39

Cat. Nos.	Page No.
7300 40	41
41	–
42	–
43	–
45	–
46	37
47	–
48	–
49	–
50	41
51	–
52	42
53	–
54	41
56	–
57	–
58	42
59	38
60	37
61	–
64	–
65	38
66	–
67	37
68	38
69	–
70	37
71	–
74	–
75	38
76	–
77	37
87	38
88	–
89	–
90	39
91	42
92	42
93	42
94	42
95	42
96	42
97	38
98	–
7301 07	36
10	40
12	–
14	–
15	–
16	–
20	–
22	–
30	36
31	–
32	–
33	–
36	39
7301 36AC	45
7301 36AP	–
7301 36BL	–
7301 36BY	–
7301 36CG	–
7301 36CH	–

Cat. Nos.	Page No.
7301 36DW	45
7301 36EH	–
7301 36EX	–
7301 36FF	–
7301 36FN	–
7301 36FR	–
7301 36FY	–
7301 36FZ	–
7301 36HB	–
7301 36HR	–
7301 36MW	–
7301 36OO	–
7301 36OV	–
7301 36TD	–
7301 36TR	–
7301 36WD	–
7301 36WH	–
7301 36WM	–
7301 39	39
40	41
52	42
53	–
56	37
57	–
58	42
60	37
61	–
62	–
66	38
70	37
76	38
80	80
81	–
82	81
83	–
84	–
85	–
86	–
87	–
88	–
89	–
90	50
91	54
92	–
93	–
94	–
95	54
96	–
97	49
98	–
7311 31	46
32	–
33	–
56	47
57	–
82	81
83	–
84	–
85	–
86	–
87	–
88	–
89	–
90	–
91	55
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7312 00	46
01	–
02	–
03	–
04	–
05	–
07	–
09	47
10	52
12	–
14	–
16	–
19	–
21	–
22	–
23	–
26	–
30	51
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	53
41	–
42	–
43	–
47	47
50	53
51	–
52	54
54	53
56	–
57	–
59	49
60	48
61	–
65	49
68	50
69	–
70	48
71	–
75	49
88	–
89	–
90	50
91	54
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7313 31	46
32	–
33	–
56	47
57	–
82	81
83	–
88	82
90	–
91	55
92	–
93	–
94	–
7314 00	46
01	–
02	–
03	–

Cat. Nos.	Page No.
7314 04	46
05	–
07	–
09	47
10	52
12	–
14	–
16	–
19	–
21	–
22	–
23	–
26	–
30	51
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	53
41	–
42	–
43	–
46	47
47	–
50	53
51	–
52	54
53	–
54	53
56	–
57	–
59	49
60	48
61	–
65	49
68	50
69	–
70	48
71	–
75	49
88	–
89	–
90	50
91	54
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7315 31	46
32	–
33	–
56	47
57	–
82	81
83	–
88	82
90	–
91	55
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7317 31	46
32	–
33	–
56	47

Cat. Nos.	Page No.
7315 92	55
93	–
94	–
7316 00	46
01	–
02	–
03	–
04	–
05	–
07	–
09	47
10	52
12	–
14	–
16	–
19	–
21	–
22	–
23	–
26	–
30	51
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	53
41	–
42	–
43	–
46	47
47	–
50	53
51	–
52	54
53	–
54	53
56	–
57	–
59	49
60	48
61	–
65	49
68	50
69	–
70	48
71	–
75	49
88	–
89	–
90	50
91	54
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7317 57	47
82	81
83	–
88	82
90	–
91	55
92	–
93	–
94	–
95	–
96	–
97	49
98	–
7320 00	56
01	–
02	–
03	–
04	–
05	–
06	–
07	–
09	63
10	67
12	–
14	–
16	–
19	68
20	–
21	–
22	–
23	–
26	–
28	–
29	–
30	67
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	69
41	–
42	–
43	–
46	63
47	–
50	69
51	–
52	70
54	69
56	–
57	–
59	65
60	64
61	–
65	–
68	66
69	–
70	64
71	–
74	–
75	–
88	65

Cat. Nos.	Page No.
7320 97	57
98	–
7321 30	56
31	–
32	–
33	–
56	–
57	–
91	61
92	–
93	–
7330 00	62
01	–
02	–
03	–
06	–
07	–
09	63
10	67
12	–
14	–
16	–
19	68
20	–
21	–
22	–
23	–
26	–
28	–
29	–
30	67
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	69
41	–
42	–
43	–
46	63
47	–
50	69
51	–
52	70
54	69
56	–
57	–
59	65
60	64
61	–
65	–
68	66
69	–
70	64
71	–
74	–
75	–
88	65

Cat. Nos.	Page No.
7330 89	65
90	66
91	70
92	–
93	–
94	–
95	70
96	–
97	65
98	–
7331 31	62
32	–
33	–
56	63
57	–
80	80
81	–
82	81
83	–
84	–
85	–
86	–
87	–
88	82
90	–
91	71
92	–
93	–
94	–
97	94
7332 00	62
01	–
02	–
03	–
04	–
05	–
06	–
07	–
09	63
10	67
12	–
14	–
16	–
19	68
20	–
21	–
22	–
23	–
26	–
28	–
29	–
30	67
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	69
41	–
42	–
43	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
7332 46	63
47	–
50	69
51	–
52	70
54	69
56	–
57	–
59	65
60	64
61	–
65	–
68	66
69	–
70	64
71	–
74	–
75	–
88	65
89	–
90	66
91	70
92	–
93	–
94	–
95	70
96	–
97	65
98	–
7333 31	62
32	–
33	–
56	63
57	–
80	80
81	–
82	81
83	–
84	–
85	–
86	–
87	–
88	82
90	–
91	80
92	–
93	–
94	–
95	74
96	–
97	72
98	–
7339 82	81
83	–
84	–
85	–
86	–
87	–

Cat. Nos.	Page No.
7334 21	68
22	–
23	–
26	–
28	–
29	–
30	67
31	–
32	–
33	–
34	–
35	–
36	–
37	–
40	69
41	–
42	–
43	–
46	63
47	–
50	69
51	–
52	70
54	69
56	–
57	–
59	65
60	64
61	–
62	–
63	–
64	–
65	–
66	–
69	–
70	64
71	–
74	–
75	–
88	65
89	–
90	66
91	70
92	–
93	–
94	–
95	70
96	–
97	65
98	–
7335 31	62
32	–
33	–
56	63
57	–
80	80
81	–
82	81
83	–
84	–
85	–
86	–
87	–

Cat. Nos.	Page No.
7335 93	71
94	–
97	94
7337 80	80
81	–
82	81
83	–
84	–
85	–
86	–
87	–
88	82
90	–
91	80
92	–
93	–
94	–
95	74
96	–
97	72
98	–
7339 82	81
83	–
84	–
85	–
86	–
87	–

Cat. Nos.	Page No.
7339 88	82
90	–
91	75
92	–
93	–
94	–
7350 00	
7350 30	77
60	–
62	–
7351 30	77
60	–
62	–
7352 56	77
65	–
7353 56	77
65	77
7354 00	76
01	–
02	–
03	–
05	–
05PE	–
06	–
07	–
10	–
11	–
12	–
13	–
14	–
14AR	–
15	–
16	–
17	–
18	–
19	–
20	77
7354 20BL	78
7354 20CH	–
7354 20DW	–
7354 20EF	–
7354 20EH	–
7354 20EX	–
7354 20FF	–
7354 20FN	–
7354 20FR	–
7354 20FZ	–
7354 20HB	–
7354 20HD	–
7354 20HR	–
7354 20LG	–
7354 20MW	–
7354 20OV	–
7354 20PH	–
7354 20TD	–
7354 20TR	–
7354 20WD	–
7354 20WH	–
7354 20WM	–
7354 21	77
7354 21BL	78
7354 21CH	–
7354 21DW	–
7354 21EF	–
7354 21EH	78

Cat. Nos.	Page No.
7354 21EX	78
7354 21FF	–
7354 21FN	–
7354 21FR	–
7354 21FZ	–
7354 21HB	–
7354 21HD	–
7354 21HR	–
7354 21LG	–
7354 21MW	–
7354 21OV	–
7354 21PH	–
7354 21TD	–
7354 21TR	–
7354 21WD	–
7354 21WH	–
7354 21WM	–
7354 22	77
7354 23	–
7354 23ET	–
24	–
25	–
35	–
36	–
40	–
41	–
46	–
47	–
48	–
50	–
51	–
74	82
76	–
81	55
82	–
84	82
86	–
90	42
91	–
92	–
93	81
95	80
96	–
7355 00	76
7355 00MN	78
7355 00MS	–
7355 00RB	–
7355 01	76
7355 03	–
7355 03MN	78
7355 03MS	–
7355 03RB	–
7355 05	76
7355 05MN	78
7355 05MS	–
7355 05PE	76
7355 05RB	78
7355 06	76
7355 07	–
7355 07MN	78
7355 07MS	–
7355 07RB	–
7355 10	76
7355 10MN	78
7355 10MS	–

Cat. Nos.	Page No.
7355 10RB	78
7355 11	76
7355 12	–
7355 12MN	78
7355 12MS	–
7355 12RB	–
7355 13	76
7355 13MN	78
7355 13MS	–
7355 13RB	–
7355 14	76
7355 14AR	–
7355 14MN	78
7355 14MS	–
7355 14RB	–
7355 15	76
7355 15MN	78
7355 15MS	–
7355 15RB	–
7355 16	76
7355 17	–
7355 18	–
7355 18MN	78
7355 18MS	–
7355 18RB	–
7355 19	76
7355 20	77
7355 20BL	78
7355 20CH	–
7355 20DW	–
7355 20EF	–
7355 20EH	–
7355 20EX	–
7355 20FF	–
7355 20FN	–
7355 20FR	–
7355 20FZ	–
7355 20HB	–
7355 20HD	–
7355 20HR	–
7355 20LG	–
7355 20MN	–
7355 20MS	–
7355 20MW	–
7355 20OV	–
7355 20PH	–
7355 20RB	–
7355 20TD	–
7355 20TR	–
7355 20WD	–
7355 20WH	–
7355 20WM	–
7355 21	77
7355 21BL	78
7355 21CH	–
7355 21DW	–
7355 21EF	–
7355 21EH	–
7355 21EX	–
7355 21FF	–
7355 21FN	–
7355 21FR	–
7355 21FZ	–
7355 21HB	–
7355 21HD	–

Cat. Nos.	Page No.
7355 21HR	78
7355 21LG	–
7355 21MW	–
7355 21OV	–
7355 21PH	–
7355 21TD	–
7355 21TR	–
7355 21WD	–
7355 21WH	–
7355 21WM	–
7355 22	77
7355 22MN	78
7355 22MS	–
7355 22RB	–
7355 23	77
7355 23ET	–
7355 24	–
7355 25	–
7355 25MN	78
7355 25MS	–
7355 25RB	–
7355 35	77
36	–
40	–
41	–
46	–
47	–
48	–
50	–
51	–
7357 25	78
7358 25	78
7360 00	105
01	–
03	102
04	–
05	–
07	105
08	–
11	102
12	–
13	–
14	–
15	103
17	–
18	–
19	–
22	102
27	103
28	–
29	103
30	104
32	102
37	104
7360 37AC	106
7360 37AP	–
7360 37BL	–
7360 37BY	–
7360 37CG	–
7360 37CH	–
7360 37DW	–
7360 37EH	–
7360 37EX	–

Cat. Nos.	Page No.
7360 37FF	–
7360 37FN	–
7360 37FR	–
7360 37FY	–
7360 37FZ	–
7360 37HB	–
7360 37HR	–
7360 37MW	–
7360 37OO	–
7360 37OV	–
7360 37TD	–
7360 37TR	–
7360 37WD	–
7360 37WH	–
7360 37WM	–
7360 38	104
7360 38AC	106
7360 38AP	–
7360 38BL	–
7360 38BY	–
7360 38CG	–
7360 38CH	–
7360 38DW	–
7360 38EH	–
7360 38EX	–
7360 38FF	–
7360 38FN	–
7360 38FR	–
7360 38FY	–
7360 38FZ	–
7360 38HB	–
7360 38HR	–
7360 38MW	–
7360 38OO	–
7360 38OV	–
7360 38TD	–
7360 38TR	–
7360 38WD	–
7360 38WH	–
7360 38WM	–
7360 39	104
7360 39AC	106
7360 39AP	–
7360 39BL	–
7360 39BY	–
7360 39CG	–
7360 39CH	–
7360 39DW	–
7360 39EH	–
7360 39EX	–
7360 39FF	–
7360 39FN	–
7360 39FR	–
7360 39FY	–
7360 39FZ	–
7360 39HB	–
7360 39HR	–
7360 39MW	–
7360 39OO	–
7360 39OV	–
7360 39TD	–
7360 39TR	–
7360 39WD	–
7360 39WH	–

Cat. Nos.	Page No.
7360 39WM	106
7360 41	104
42	102
45	104
46	–
47	–
48	–
7360 48AC	106
7360 48AP	–
7360 48BL	–
7360 48BY	–
7360 48CG	–
7360 48CH	–
7360 48DW	–
7360 48EH	–
7360 48EX	–
7360 48FF	–
7360 48FN	–
7360 48FR	–
7360 48FY	–
7360 48FZ	–
7360 48HB	–
7360 48HR	–
7360 48MW	–
7360 48OO	–
7360 48OV	–
7360 48TD	–
7360 48TR	–
7360 48WD	–
7360 48WH	–
7360 48WM	–
7360 49	104
7360 49AC	106
7360 49AP	–
7360 49BL	–
7360 49BY	–
7360 49CG	–
7360 49CH	–
7360 49DW	–
7360 49EH	–
7360 49EX	–
7360 49FF	–
7360 49FN	–
7360 49FR	–
7360 49FY	–
7360 49FZ	–
7360 49HB	–
7360 49HR	–
7360 49MW	–
7360 49OO	–
7360 49OV	–
7360 49TD	–
7360 49TR	–
7360 49WD	–
7360 49WH	–
7360 49WM	–
7360 51	104
52	–
53	105
54	103
55	–
62	102
66	105

Cat. Nos.	Page No.
7360 67	105
70	–
71	–
72	–
74	–
75	–
76	–
77	–
80	–
95	–
96	–
7361 03	102
04	–
05	–
81	103
82	–
91	–
92	–
7364 00	112
01	–
03	–
04	80
05	–
06	112
07	–
08	–
10	–
11	–
13	–
18	–
20	–
21	–
22	–
28	–
32	–
40	80
41	–
7397 04	78
05	–
06	–
07	–
08	–
09	–
10	–
7399 04	78
05	–
06	–
07	–
08	–
09	–
10	–
8000 00	
8204 60	108
69	–
90	122
9000 00	
90102 XX	164
90103 XX	166
90108 XX	165
90110 XX	164
90118 XX	166

Cat. Nos.	Page No.
90119 XX	166
90144 XX	–
90145 XX	–
91501 01	164
91501 09	–
91502 01	–
91502 09	–
91507 XX	166
91510 XX	164
91511 XX	–
91513 01	–
91513 09	–
91514 01	–
91514 09	–
91517 01	–
91517 09	–
91518 01	–
91518 09	–
91525 01	–
91525 09	–
91526 01	–
91526 09	–
91531 01	–
91531 09	–
91532 01	–
91532 09	–
91533 01	–
91533 09	–
91534 01	–
91534 09	–
91651 01	166
91651 09	–
91652 01	–
91652 09	–
91657 01	–
91657 09	–
91658 01	–
91658 09	–
91659 01	–
91659 09	–
91661 01	–
91661 09	–
91662 01	–
91662 09	–
91663 01	–
91663 09	–
91664 01	–
91664 09	–
91690 01	–
91690 09	–
91801 01	165
91801 09	–
91805 01	–
91805 09	–
91806 01	–
91806 09	–
91808 XX	–
91809 XX	–
91813 01	–
91813 09	–
91814 01	–
91814 09	–

Cat. Nos.	Page No.
91831 01	165
91831 09	–
91832 01	–
91832 09	–
91833 01	–
91833 09	–
91834 01	–
91834 09	–
Tenby and others	
703	111
704	–
712	–
713	–
714	–
715	–
810	108
812	111
813	–
814	–
815	–
912	–
913	–
914	–
915	–
923	–
1000	121
1001	–
1041TZ	112
1042N	–
1042TZ	–
1043N	–
1044N	–
1045T	–
1200	106
2076	112
2076NP	–
2077	–
7057	107
7058	–
7058NL	–
7063	–
7064	–
7065	–
7082RED	–
7313	112
7314	–
7545	108
7601	121
7617	122
7619	–
7662	–
7768	108
7811	106
7812	–
7813	–
7814	–
7815	–
7822	–
7832	–
8617	121
8662	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
A	
AEPOXYPAINT	246
AFL3	186
AFL330	–
AFL3311	–
AFL3312	–
AFL3313	–
AFL332	–
AFL340	–
AFL3411	–
AFL3413	–
AFL342	–
AFL3MT	–
AFL4	–
AFL4MT	–
AFLSFS	–
AFLTFT	–
AFS261	187
AFS2613	–
AFS2614	–
AFS2615	–
AFS265	–
AFS2653	–
AFS2654	–
AFS2655	–
AFS361	–
AFS3611	–
AFS3613	–
AFS3614	–
AFS365	–
AFS3653	–
AFS3654	–
AFS3911	–
AFS395	–
AFS3953	–
AFS3954	–
AFS3955	–
AFS3F	–
AFS3MTF	–
AFS4F	–
AFS4MTF	–
AFSSFS	–
AFSTFT	–
AFU261	188
AFU2612	–
AFU2613	–
AFU2614	–
AFU2615	–
AFU2616	–
AFU265	–
AFU2652	–
AFU2653	–
AFU2654	–
AFU2655	–
AFU2656	–
AFU311	–
AFU3112	–
AFU3113	–
AFU3114	–
AFU3115	–
AFU3116	–
AFU315	–
AFU3152	–
AFU3153	188
AFU3154	–
AFU3155	–
AFU3156	–
AFU391	–
AFU3912	–
AFU3913	–
AFU3914	–
AFU3915	–
AFU3916	–
AFU395	–
AFU3952	–
AFU3953	–
AFU3954	–
AFU3955	–
AFU3956	–
AFU3F	–
AFU3MTF	–
AFU4F	–
AFU4MTF	–
AFUSFS	–
AFUTFT	–
AGALVPAINT	246
AM1C	204
AMBWF	223
B	
BT2BB	176
BT2EP	–
BT2EX	–
BT2IN	–
BT2LFP	–
BT2PAP	–
BT2SSP	–
BT2TKBY	–
BT2TKLP	–
BT2TSP	–
C	
CB1	200
CFB1	195
CFB1CMT	201
CFB1GMT	–
CFB2CMT	–
CFB3	200
CFB3CMT	201
CFB3DATA	–
CFB3MOD	200
CFB3RCBO	–
CFB3RCD	–
CFB4	–
CFB4CMT	201
CFB4MOD	200
CFB4RCBO	–
CFB4RCD	–
CFBDBOX	201
CFU	195
CFW	–
CKP25	245
CM000014	270
CM000024	–
CM000034	–
CM000044	–
CM000054	–
CM000064	270
CM000074	–
CM000084	–
CM000094	–
CM000104	–
CM000204	–
CM000254	–
CM000304	–
CM000404	–
CM000894	271
CM000914	–
CM000924	–
CM000934	–
CM000944	–
CM013010	274
CM013013	–
CM013014	–
CM013030	–
CM013033	–
CM013034	–
CM013150	–
CM013153	–
CM013154	–
CM013200	–
CM013203	–
CM013204	–
CM013300	–
CM013303	–
CM013304	–
CM013400	–
CM013403	–
CM013404	–
CM013500	–
CM013503	–
CM013504	–
CM013600	–
CM013603	–
CM013604	–
CM540050	270
CM540100	–
CM540150	–
CM540200	–
CM540300	–
CM541050	–
CM541100	–
CM541150	–
CM541200	–
CM541300	–
CM541400	–
CM541450	–
CM541500	–
CM541600	–
CM542050	–
CM542100	–
CM542150	–
CM542200	–
CM542300	–
CM543050	–
CM543100	–
CM543150	–
CM543200	–
CM543300	–
CM543400	–
CM543450	–
CM543500	270
CM543600	–
CM556100	274
CM556103	–
CM556104	–
CM556110	–
CM556113	–
CM556114	–
CM556120	–
CM556123	–
CM556124	–
CM556130	–
CM556133	–
CM556134	–
CM556140	–
CM556143	–
CM556150	–
CM556153	–
CM556300	–
CM556303	–
CM556304	–
CM556310	–
CM556313	–
CM556314	–
CM556320	–
CM556323	–
CM556324	–
CM556330	–
CM556333	–
CM556340	–
CM556343	–
CM556350	–
CM556353	–
CM556600	–
CM556603	–
CM556610	–
CM556613	–
CM556630	–
CM556633	–
CM557400	275
CM557403	–
CM557404	–
CM557410	–
CM557413	–
CM557414	–
CM557420	–
CM557423	–
CM557424	–
CM557430	–
CM557433	–
CM557434	–
CM557440	–
CM557443	–
CM557444	–
CM557450	–
CM557453	–
CM557454	–
CM557460	–
CM557463	–
CM557464	–
CM557470	–
CM557473	–
CM557474	–
CM557610	–
CM557613	275
CM557800	274
CM557803	–
CM557804	–
CM557920	275
CM557930	–
CM557940	–
CM557950	–
CM558051	272
CM558053	–
CM558054	–
CM558061	–
CM558067	–
CM558071	–
CM558077	–
CM558081	–
CM558084	–
CM558087	–
CM558091	–
CM558094	–
CM558097	–
CM558100	–
CM558103	–
CM558104	–
CM558110	–
CM558120	–
CM558123	–
CM558124	–
CM558201	–
CM558203	–
CM558204	–
CM558221	–
CM558223	–
CM558224	–
CM558320	–
CM558324	–
CM558327	–
CM558340	–
CM558344	–
CM558347	–
CM558410	–
CM558414	–
CM558417	–
CM559137	276
CM559147	–
CM559157	–
CM559167	–
CM559177	–
CM559197	–
CM559507	–
CM561010	275
CM561013	–
CM561020	–
CM561023	–
CM561080	–
CM561090	–
CM561093	–
CM561310	–
CM561313	–
CM585080	276
CM585090	–
CM585093	–
CM585094	–
CM585110	–
CM585114	276
CM585120	–
CM585130	–
CM585134	–
CM585140	–
CM585143	–
CM585144	–
CM585145	–
CM585150	–
CM585153	–
CM585154	–
CM585160	–
CM585164	–
CM585167	–
CM585180	–
CM585190	–
CM585327	–
CM585387	–
CM585397	–
CM585407	–
CM585410	–
CM585417	–
CM586020	273
CM586023	–
CM586024	–
CM586031	–
CM586037	–
CM586040	–
CM586043	–
CM586044	–
CM586060	–
CM586063	–
CM586064	–
CM586070	–
CM586073	–
CM586074	–
CM586080	–
CM586083	–
CM586084	–
CM586100	–
CM586103	–
CM586104	–
CM586130	–
CM586133	–
CM586134	–
CM586140	–
CM586143	–
CM586144	–
CM586170	–
CM586173	–
CM586174	–
CM586180	–
CM586183	–
CM586184	–
CM586190	–
CM586194	–
CM586197	–
CM586200	–
CM586300	–
CM586400	–
CM586450	–
CM586500	–
CM586600	–
CM599007	272
CM629050	271
CM629053	–
CM629054	–
CM629100	–
CM629103	–
CM629104	–
CM629150	–
CM629153	–
CM629154	–
CM629200	–
CM629203	–
CM629204	–
CM629300	–
CM629303	–
CM629304	–
CM629400	–
CM629403	–
CM629404	–
CM629450	–
CM629453	–
CM629454	–
CM629500	–
CM629503	–
CM629504	–
CM629600	–
CM629603	–
CM629604	–
CM646200	–
CM646204	–
CM646220	–
CM746221	–
CM746623	–
CM746641	–
CM746643	–
CM746661	–
CM746663	–
CM746681	–
CM746683	–
CM746701	–
CM746703	–
CM746721	271
CM801011	272
CM801014	272
CM801017	272
CM801051	275
CM801054	275
CM801057	275
CM840101	273
CM840111	273
CM840131	273
CM923010	271
CM923013	271
CM923014	271
CM923020	271
CM923023	271
CM923024	271
CM923040	271
CM923043	271
CM923044	271
CM923050	271
CM923054	271
CM923057	271
CO104	316
CO105	316
CP1035	297
CP1035S	–
CTL12	195
CTL18	–
CTL24	–
CTL30	–
CTL36	–
CTO3F	–
CTO3U	–
CTO5F	–
CTUA	–
CTUB	–
CTUC	–
D	
DBOXNSP221	201
DBOXNSP221CE	–
DBOXNXAS34	–
DBOXNXMT34	–
DBOXNXMT36	–
DBOXNXPB3	–
DFB1	196
DFU	–
DFW	–
DOWF	222
DTB1	307
DTB2	–
DTL12	196
DTL18	–
DTL24	–
DTL30	–
DTL36	–
DTO3F	–
DTO3U	–
DTO5F	–
DTUA	–
DTUB	–
DTUC	–
E	
EARWF	222
EB06	298
EB08	–
EB10	–
EB12	–
EBF	220
EC14	109
EC14/2	–
EC14/3	–
EC15	–
EC15/2	–
EC15/3	–
EC16	–
EC16/2	–
EC16/3	–
ECF	219
ECURF	222
EDVF	–
EEF	221
EFBWArF	219
EFF	221
EHF	–
EIRCWArF	223
EIRVWArF	223
EIRWArF	219
EJF	221
EL	170
EL150F	219
EL300F	–
EL450F	–
EL600F	–
EL750F	–
EL900F	–
ELRWKF	–
ENF	221
EORCWArF	223
EORVWArF	–
EORWArF	219
EPF	221
ERBF	220
ERRWKF	219
ERYF	223
ESRWKF	219
ETCLIP	307
ETWrRF	219
EUTWBrRF	–
EVF	222
EWSBF	220
EXWrRF	219
F	
F7082	107
FF	246
FF124	189
FF42	–
FF63	–
FFEB124	–
FFEB42	–
FFEB63	–
FFI124	–
FFI42	–
FFI63	–
FFRB124	–
FFRB42	–
FFRB63	–
FL2	295
FRFI124	189
FRFI42	–
FRFI63	–
FRL124	–
FRL42	–
FRL63	–
FRLEB124	–
FRLEB42	–
FRLEB63	–
FRLRB124	–
FRLRB42	–
FRLRB63	–
FTP124	190
FTP42	–
FTP63	–
FTPEB124	–
FTPEB42	–
FTPEB63	–
FTPI124	–
FTPI42	–
FTPI63	–
FTPRB124	190
FTPRB42	–
FTPRB63	–
FW06	224
FW06S	–
FW08	–
FW08S	–
FW10	–
FW10S	–
FW12	–
FW12S	–
G	
GP1	111
GP2	–
GP3	–
GP4	–
GP5	–
GP6	–
GP10	–
GP11	–
GP12	–
GP13	–
GP14	–
GP15	–
H	
HCAWF	220
HN06	224
HN06S	–
HN08	–
HN08S	–
HN10	–
HN10S	–
HN12	–
HN12S	–
HNG06	–
HNG08	–
HNG10	–
HNG12	–
HTHWF	220
I	
INT7082	107
L	
LCA100F	245
LCA150F	–
LCA225F	–
LCA300F	–
LCA450F	–
LCA600F	–
LCA750F	–
LCA900F	–
LCB100F	–
LCB150F	–
LCB50F	–
LCB75F	–
LP1	111
LP2	–
LP3	–
LP4	–
LP62	–
LSG2	204
LT2C	316
LT2310	–
LT2410	–
LT2510	–
LT2610	–
LT2AL	–
LT2ASL	–
LT2AST	–
LT2ASX	–
LT2BL	–
LT2BSL	–
LT2BST	–
LT2CL	–
LT2CR	317
LT2CSL	316
LT2CST	–
LT2E	317
LT2F	–
LT2FS	–
LT2GCL	–
LT2H10	–
LT2H20	–
LT2KL	–
LT2MH	–
LT2NS	–
LT2PSA	–
LT2SB	–
LTGC	316
LTH100F	245
LTH150F	–
LTH225F	–
LTH300F	–
LTH450F	–
LTH50F	–
LTH600F	–
LTH750F	–
LTH75F	–
LTH900F	–
LTPC	316
LTPO	–
M	
MF	222
MG1212	307
MG124	–
MG126	–
MG12CR	310
MG12LID	307
MG12PART	310
MG12ZH	–
MG22	307
MG22H	310
MG2CR	–
MG2LID	307
MG2PART	310
MG32	307
MG33	–
MG33H	310
MG3CR	–
MG3LID	307
MG3PART	310
MG42	307
MG43	–
MG44	–
MG44H	310
MG4CR	310
MG4LID	307
MG4PART	310
MG62	307
MG63	–
MG64	–
MG66	–
MG66H	310
MG6CR	–
MG6LID	307
MG6PART	310
MG93	307
MG94	–
MG96	–
MG99	–
MG9CR	310
MG9LID	307
MG9PART	310
MG9ZH	–
MGZAGL	308
MGZAGL2C	–
MGZAGL3C	–
MGZAGT	309
MGZAGT2C	–
MGZAGT3C	–
MGZAGX	–
MGZAGX2C	–
MGZAGX3C	–
MGZAL	308
MGZAL2C	–
MGZAL3C	–
MGZASL	–
MGZASL2C	–
MGZASL3C	–
MGZAST	309
MGZAST2C	–
MGZAST3C	–
MGZB	310
MGZB2C	–
MGZB3C	–
MGZBGL	308
MGZBGL2C	–
MGZBGL3C	–
MGZBGT	309
MGZBGT2C	–
MGZBGT3C	–
MGZBL	308
MGZBL2C	–
MGZBL3C	–
MGZBSL	–
MGZBSL2C	–
MGZBSL3C	–
MGZC	307
MGZCGL	308
MGZCGL2C	–
MGZCGL3C	–
MGZCGT	309
MGZCGT2C	–
MGZCGT3C	–
MGZCL	308
MGZCL2C	–
MGZCL3C	–
MGZCSL	–

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Cat. Nos.	Page No.
MGZCSL2C	308
MGZCSL3C	–
MGZE	310
MGZF	–
MGZFA	307
MGZOST2C	309
MGZOST3C	–
MGZOSX2C	–
MGZOSX3C	–
MGZPR	310
MGZZR	–
MPF	223
MRFABWF	243
MRFARWF	–
MRFBWAF	–
MRFBWF	–
MRFC50F	–
MRFCCWF	246
MRFCF	243
MRFCVWF	246
MRFDVF	–
MRFIRWF	243
MRFL100F	–
MRFL150F	–
MRFL225F	–
MRFL300F	–
MRFL450F	–
MRFL50F	–
MRFL600F	–
MRFL75F	–
MRFORWF	–
MRFRWKF	–
MRFTWF	–
MRFUTWBF	–
MRFXWF	–
MRQBCF	243
MS12SG	310
MS12TS	–
MS4SG	–
MS4TS	–
MS6SG	–
MS6TS	–
MS9SG	–
MS9TS	–
MSZCLH	–
MSZCRH	–
N	
NFP315	202
NOP2013	–
NOP2014	–
NOP2023	–
NOP2024	–
NOP2213	–
NOP2213CE	–
NOP2214	–
NOP2214CE	–
NOP2223	–
NOP2223CE	–
NOP2224	–
NOP2224CE	–
NSP2013	–
NSP2014	–
NSP2023	–

Cat. Nos.	Page No.
NSP2024	202
NSP2213	–
NSP2213CE	–
NSP2214	–
NSP2214CE	–
NSP2223	–
NSP2223CE	–
NSP2224	–
NSP2224CE	–
NXAS34	203
NXAS44	–
NXEM5531	–
NXEM5532	–
NXEM5541	–
NXEM5542	–
NXKS34	–
NXKS44	–
NXMT32	–
NXMT33	–
NXMT34	–
NXMT36	–
NXMT42	–
NXMT43	–
NXMT44	–
NXMW34	–
NXMW44	–
NXP60323	–
NXP6033	–
NXPB3	–
NXPB4	–
O	
OAMBWF	223
OBF	220
OCF	216
OEF	221
OFASTG	216
OFBWArF	–
OFF	221
OH100F	245
OH150F	–
OH50F	–
OH75F	–
OHF	221
OIRWArF	216
OJF	221
OL150F	216
OL300F	–
OL450F	–
OLRWKF	–
OORWArF	–
ORBF	220
ORRWKF	216
OSRWKF	–
OTWrRF	–
OXWrRF	–
P	
PARWF	222
PBF	220
PCF	218
PCURF	222
PD720BB	172

Cat. Nos.	Page No.
PD720BO	172
PD720CR	–
PD720EP	–
PD720LFP	–
PD720PAP	–
PD720SPP	–
PD720SSP	–
PD720TDP	–
PD720TKLP	–
PD720TPP	–
PD720TSP	–
PD723EX	–
PD723FDT	–
PD723FRT	–
PD723IN	–
PD723LBT	–
PD723LDB	–
PD723LIT	–
PD723LRB	–
PD723RBT	–
PD723RDB	–
PD723RIT	–
PD723RRB	–
PD723TKBY	–
PD820BB	174
PD820BO	–
PD820CR	–
PD820EP	–
PD820LFP	–
PD820PAP	–
PD820SPP	–
PD820SSP	–
PD820TDP	–
PD820TKLP	–
PD820TPP	–
PD820TSP	–
PD823EX	–
PD823FDT	–
PD823FRT	–
PD823IN	–
PD823LBT	–
PD823LDB	–
PD823LIT	–
PD823LRB	–
PD823RBT	–
PD823RDB	–
PD823RIT	–
PD823RRB	–
PD823TKBY	–
PDVF	222
PED1WHI	176
PED2WHI	–
PED3WHI	–
PED4WHI	–
PED8WHI	–
PEF	221
PFB1	197
PFBWArF	218
PFF	221
PFU	197
PFW	–
PG1	204
PG1RCBO	200
PG1RCD	–

Cat. Nos.	Page No.
PHF	221
PIRCWArF	223
PIRVWArF	–
PIRWArF	218
PJF	221
PL150F	218
PL300F	–
PL450F	–
PL600F	–
PL750F	–
PL900F	–
PLFEB	221
PLRWKF	218
PN060	289
PN061	–
PN062	–
PN080	–
PN081	–
PN082	–
PN100	–
PN101	–
PN102	–
PN120	–
PN121	–
PN122	–
PNF	221
PORCWArF	223
PORVWArF	–
PORWArF	218
PPF	221
PRBF	220
PRRWKF	218
PRYF	223
PSRWKF	218
PTFEB	221
PTL12	197
PTL18	–
PTL24	–
PTL30	–
PTL36	–
PTO3FR	–
PTO3U	–
PTO3UR	–
PTO5FR	–
PTUA	–
PTUB	–
PTUC	197
PTWrRF	218
PUTWBrRF	–
PVF	222
PW06	297
PW08	–
PW10	–
PW12	–
PWSBF	220
PXWrRF	218
Q	
QBF	243
R	
RB0612	224
RB0612S	–
RB0616	–

Cat. Nos.	Page No.
RB0616S	224
RB0620	–
RB0620S	–
RB0625	–
RB0630	–
RB0640	–
RB0650	–
RBG0612	–
RBG0616	–
RC06	–
RC08	–
RC10	–
RC12	–
RWG06	254
S	
SA750	296
SA751	–
SA752	–
SA753	–
SA754	–
SA755	–
SA756	–
SA757	–
SA760	–
SA761	–
SA762	–
SA763	–
SA764	–
SA765	–
SA766	–
SA770	–
SA771	–
SA772	–
SA773	–
SA774	–
SA775	–
SA776	–
SA790	–
SA791	–
SA792	–
SA793	–
SA794	–
SA795	–
SA796	–
SB500	292
SB501	–
SB502	–
SB503	–
SB504	–
SB505	–
SB50606	293
SB50608	–
SB50610	–
SB50612	–
SB50630	–
SB507	–
SB508	–
SB509	–
SB510	–
SB511	–
SB512	–
SB513	–
SB514	–

Cat. Nos.	Page No.
SB515	293
SB516	–
SB517	–
SB518	294
SB520	293
SB521	–
SB522	–
SB523	–
SB524	–
SB525	–
SB526	–
SB527	–
SB528	–
SB529	–
SB530	–
SB531	–
SB532	–
SB533	–
SB534	–
SB535	–
SB536	–
SB537	–
SB538	–
SB539	–
SB541	–
SB550	292
SB551	–
SB552	–
SB554	294
SB555	–
SB556	292
SB557	293
SB558	292
SB600	294
SB601	–
SB602	–
SB603	–
SB603+	–
SB604	–
SB605	–
SB606	–
SB607	–
SB650	–
SB651	–
SB652	292
SB700	294
SB701	–
SB702	295
SB703	294
SB704	–
SB705	–
SB706	295
SB707	294
SC2003M	289
SC2006M	–
SC2013M	–
SC2033M	–
SC2036M	–
SC2103M	–
SC2133M	–
SC4003M	–
SC4006M	–
SC4013M	–
SC4016M	–

Cat. Nos.	Page No.
SC403300	289
SC403350	–
SC4033M	–
SC403500	–
SC4036M	–
SC4103M	–
SC4133M	–
SC4136M	–
SC850	295
SC851	–
SC85221	–
SC85241	–
SC85282	–
SC853	–
SC854	–
SC855	–
SC856	–
SC950B	–
SC950W	–
SC951B	–
SC951W	–
SC952	–
SC953	–
SD620BO	173
SD620CR	–
SD620EP	–
SD620LFP	–
SD620PAP	–
SD620TKLP	–
SD622BB	–
SD622EX	–
SD622FDT	–
SD622FRT	–
SD622IN	–
SD622LBT	–
SD622LDB	–
SD622LIT	–
SD622LRB	–
SD622RBT	–
SD622RDB	–
SD622RIT	–
SD622RRB	–
SD622SPP	–
SD622SSP	–
SD622TDP	–
SD622TKBY	–
SD622TPP	–
SD622TSP	–
SD623BB	–
SD623EX	–
SD623FDT	–
SD623FRT	–
SD623IN	–
SD623LBT	–
SD623LDB	–
SD623LIT	–
SD623LRB	–
SD623RBT	–
SD623RDB	–
SD623RIT	–
SD623RRB	–
SD623SPP	–
SD623SSP	–
SD623TDP	–

Cat. Nos.	Page No.
SD623TKBY	173
SD623TPP	–
SD623TSP	–
SD820BO	175
SD820CR	–
SD820EP	–
SD820LFP	–
SD820PAP	–
SD820SPP	–
SD820SSP	–
SD820TDP	–
SD820TKLP	–
SD820TPP	–
SD820PAP	–
SD823BB	–
SD823EX	–
SD823FDT	–
SD823FRT	–
SD823IN	–
SD823LBT	–
SD823LDB	–
SD823LIT	–
SD823LRB	–
SD823RBT	–
SD823RDB	–
SD823RIT	–
SD823RRB	–
SD823TKBY	–
SEC	194
SFB1	–
SFU	–
SFW	–
SG1	204
SHB	194
SHC	–
SK620BO	170
SK620CR	–
SK620EP	–
SK620LFP	–
SK620PAP	–
SK620TKLP	–
SK622BB	–
SK622EX	–
SK622FRT	–
SK622IN	–
SK622LBT	–
SK622LIT	–
SK622LRB	–
SK622RBT	–
SK622RIT	–
SK622RRB	–
SK622SPP	–
SK622SSP	–
SK622TDP	–
SK622TKBY	–
SK622TPP	–
SK622TSP	–
SK623BB	–
SK623EX	–
SK623FDT	–
SK623FRT	–
SK623IN	–
SK623LBT	–
SK623LIT	–
SK623LRB	–

Cat. Nos.	Page No.
SK623RBT	170
SK623RIT	–
SK623RRB	–
SK623SPP	–
SK623SSP	–
SK623TDP	–
SK623TKBY	–
SK623TPP	–
SK623TSP	–
SK820BO	171
SK820CR	–
SK820EP	–
SK820LFP	–
SK820PAP	–
SK820SPP	–
SK820SSP	–
SK820TDP	–
SK820TKLP	–
SK820TPP	–
SK820TSP	–
SK822BB	–
SK822EX	–
SK822FRT	–
SK822IN	–
SK822LBT	–
SK822LIT	–
SK822LRB	–
SK822RBT	–
SK822RIT	–
SK822RRB	–
SK822TKBY	–
SK823BB	–
SK823EX	–
SK823FRT	–
SK823IN	–
SK823LBT	–
SK823LIT	–
SK823LRB	–
SK823RBT	–
SK823RIT	–
SK823RRB	–
SK823TKBY	–
SKBC	170
SP1	111
SP2	–
SP3	–
SP4	–
SP960	295
SP961	–
SP964	–
SP965	–
SP968	–
SP969	–
SP972	–
SP973	–
SP975	–
SP976	–
SP977	–
SP978	–
SP979	–
SP980	–
SP981	–
SP982	–
SP983	–

Cat. Nos.	Page No.
SP984	295
SP985	–
SRFABWF	244
SRFARWF	–
SRFAXRWF	–
SRFBWAF	–
SRFBWF	–
SRFCCWF	246
SRFCF	244
SRFCVWF	246
SRFDVF	–
SRFIRWF	244
SRFL100F	–
SRFL150F	–
SRFL225F	–
SRFL300F	–
SRFL450F	–
SRFL600F	–
SRFL750F	–
SRFL75F	–
SRFL900F	–
SRFORWF	–
SRFRWKF	–
SRFTWF	–
SRFUTWBF	–
SRFXWF	–
SRQBCWF	–
SS0616	224
SS0620	–
SS0620S	–
SS0625	–
SS0625S	–
SS0630	–
SS0820	297
SS0825	–
SS0825S	–
SS0830	–
SS0835	–
SS0835S	–
SS0840	–
SS0840S	–
SS0850	–
SS1016	224
SS1016S	–
SS1020	–
SS1025	–
SS1025S	297
SS1030	224
SS1035	–
SS1035S	–
SS1040	–
SS1040S	–
SS1045	–
SS1050	–
SS1060	–
SS1220	–
SS1225	–
SS1225S	–
SS1230	–
SS1235	–
SS1240	–
SS1250	–
SSARWF	242
SSBWAF	–

Cat. Nos.	Page No.
SSBWF	242
SSCCWF	246
SSCVWF	–
SSG0612	297
SSG0616	224
SSG0620	–
SSG0625	–
SSG0630	–
SSG0635	297
SSIRWAF	242
SSIRWF	–
SSL100F	–
SSL150F	–
SSL225F	–
SSL300F	–
SSL50F	–
SSL75F	–
SSORWAF	–
SSORWF	–
SSRWKF	–
SSTWF	–
SSXWF	–
STB100F	245
STB150F	–
STB225F	–
STB300F	–
STB450F	–
STB50F	–
STB600F	–
STB750F	–
STB75F	–
STB900F	–
STL12	194
STL18	–
STL24	–
STL30	–
STL36	–
STO3F	–
STO3U	–
STO5F	–
STUA	–
STUB	–
STUC	–
SVB	–
SW06	224
SW08	–
SW10	–
SW12	–
T	
T201	307
T204	–
T206	310
TR06	224
TR06S	–
TR08	–
TR08S	–
TR10	–
TR10S	–
TR12	–
TR12S	–
TW06	297
TWG06	–
TX25	307

Cat. Nos.	Page No.
W	
WFF	246
WLT2510	316
WLT2AL	–
WLT2ASL	–
WLT2AST	–
WLT2ASX	–
WLT2BL	–
WLT2BSL	–
WLT2BST	–
WLT2CL	–
WLT2CSL	–
WLT2CST	–
WLT2E	317
WLT2F	–
WLT2GCL	–
WLT2H10	–
WLT2H20	–
WLTGC	316
WM3-5	170
Z	
ZARWF	222
ZBF	220
ZC1	295
ZCF	217
ZCURF	222
ZDVF	–
ZEF	221
ZFBWArF	217
ZFF	221
ZHF	–
ZIRCWArF	223
ZIRVWArF	–
ZIRWArF	217
ZJF	221
ZL150F	217
ZL300F	–
ZL600F	–
ZLRWKF	–
ZNF	221
ZORCWArF	223
ZORVWArF	–
ZORWArF	217
ZPF	221
ZRBF	220
ZRFY	223
ZRRWKF	217
ZRYF	223
ZSRWKF	217
ZTWrRF	–
ZUTWBrRF	–
ZVF	222
ZWSBF	220
ZXWrRF	217

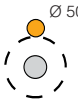
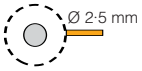
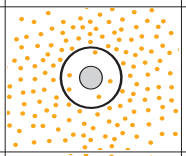
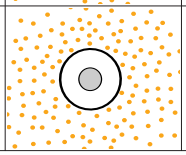
ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Protection classifications

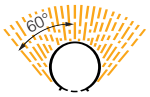
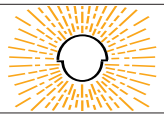
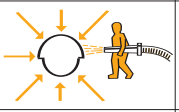
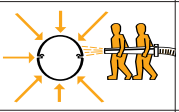
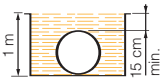
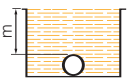
Protection against solid bodies and liquids : Index of protection - IP xx

Degree of protection of enclosures of electrical equipment in accordance with standards IEC 60529, BS EN 60529
Up to 1 000 V~ and 1 500 V⎓

1st figure : protection against solid bodies

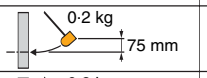
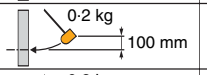
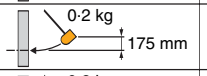
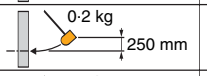
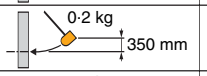
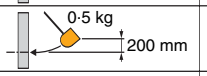
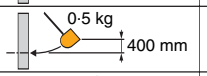
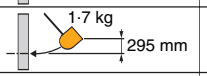
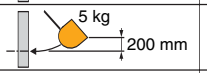
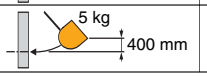
IP	tests	
0		No protection
1		Protected against solid bodies of 50 mm and greater (e.g. accidental contact with the hand)
2		Protected against solid bodies of 12·5 mm and greater (e.g. finger)
3		Protected against solid bodies of 2·5 mm and greater (e.g. tools, wires)
4		Protected against solid bodies larger than 1 mm (e.g. thin tools and fine wires)
5		Protected against dust (no harmful deposit)
6		Completely protected against dust

2nd figure : protection against liquids

IP	tests	
0		No protection
1		Protected against vertically falling drops of water (condensation)
2		Protected against drops of water falling up to 15° from the vertical
3		Protected against water sprayed up to 60° from the vertical
4		Protected against splashing water from all directions
5		Protected against jets of water from all directions
6		Protected against powerful jets of water from all directions
7		Protected against the effects of temporary immersion in water
8		Protected against the continuous effects of immersion in water having regard to specific conditions

Protection against mechanical impact : Index of protection - IK

According to standards IEC 62262 and BS EN 62262

IK	Tests	Impact energy (in Joules)
IK 00		0
IK 01		0·15
IK 02		0·2
IK 03		0·35
IK 04		0·5
IK 05		0·7
IK 06		1
IK 07		2
IK 08		5
IK 09		10
IK 10		20

(1) A product previously classed as IP xx-7 can be assumed to fulfill the conditions of an IP xx - IK 08

This table can be used to ascertain the resistance of a product to an impact given in Joules from the IK code (graduated from 00 to 10).
It can also be used to ascertain the correspondence with the old IP code 3rd digit and the corresponding external "Ag" conditions.

The contents of the Protection Classifications charts are for guidance only. If you have any doubt as to the interpretation of the information contained therein, please refer either to the standard itself or contact Legrand.

Health and Safety at Work, etc. Act. 1974

Statement to Purchasers and Prospective Purchasers

1. Section 6 of this Act provides that manufacturers, designers, importers or suppliers of articles for use at work have a duty to ensure so far as is reasonably practical, that the article will be safe and without risk to health when properly used. An article is not regarded as being 'properly used' if it is used without regard to any relevant information or advice relating to its use made available by the manufacturer, designer, importer or supplier.

2. With regard to these provisions the following is given as a guide to the information which is readily available to you. This information relates to those products detailed in our catalogue(s) or associated literature or may be obtained by specific request to the Company.

3. All products should be installed and maintained in accordance with good engineering practice and relevant British or other applicable standards, regulations for the installation of equipment by the Institute of Electrical Engineers or any other applicable Codes of Practice.

Health and Safety at Work Act

The Electricity at Work Regulations, 1989

1. All installations and maintenance should be carried out within the provision of the above Act and by persons so qualified as defined in the Act.

2. Information and advice on the suitability of our products can be obtained from Legrand Electric Limited on specific request.

For information concerning wiring device standards outside the UK contact :

BSI
Customer Services
09:00 to 17:00 – Monday to Friday
Tel : +44 (0) 20 8996 9001
Fax : +44 (0) 20 8996 7001
Email : cservices@bsi-global.com

CE marking appears on electrical or electronic products from Legrand and enables the circulation of goods outside the UK.

Conditions of sale
Please consult our current price list

In accordance with its policy of continuous improvement the Company reserves the right to change specifications and designs without notice.
All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company.

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

LEGRAND WORLDWIDE



Algeria
Legrand
Tel. : (213) 21 55 24 67
Fax : (213) 21 55 34 84

Australia
Legrand
Tel. : (61) 2 87 48 03 33
Fax : (61) 2 87 48 03 98

Austria
Legrand Osterreich
Tel. : (43) 1 277 62
Fax : (43) 1 277 62 310

Belgium
Legrand Belgique S.A.
Tel. : (32) 2 719 17 11
Fax : (32) 2 719 17 00

Belorussia
Legrand
Tel. : (375) 17 205 04 78/79
Fax : (375) 17 205 04 78/79

Brazil
GL Electro-Eletronicos Ltda
Tel. : (55) 11 56 44 24 00
Fax : (55) 11 56 44 24 68

Bulgaria
Legrand
Tel. : (359) 2 976 92 97
Fax : (359) 2 976 94 70

Canada
Legrand Canada
Tel. : (1) 905 738 91 95
Fax : (1) 905 738 97 21

Chile
Legrand Electro Andina Ltda (EAL)
Tel. : (56) 2 550 52 00
Fax : (56) 2 556 74 42

China
Legrand China
Tel. : (86) 21 52 11 01 11
Fax : (86) 21 52 11 00 86

Colombia
Luminex
Tel. : (57) 1 437 6720
Fax : (57) 1 224 4636

Croatia
Legrand
Tel. : (385) 1 606 43 50
Fax : (385) 1 606 43 59

Czech Republic
Legrand s.r.o.
Tel. : (420) 2 22 863 668
Fax : (420) 2 22 863 669

Egypt
Legrand
Tel. : (202) 378 61 50
Fax : (202) 380 70 32

Estonia
Legrand
Tel. : (372) 6799 110
Fax : (372) 6799 113

France
Legrand S.A.
Tel. : (33) 5 55 06 87 87
Fax : (33) 5 55 06 88 88

Germany
Legrand GmbH
Tel. : (49) 2921 1040
Fax : (49) 2921 104202

Greece
Helliniki Legrand S.A.
Tel. : (30) 2 10 67 97 500
Fax : (30) 2 10 67 97 510

Guyana
Legrand
Tel. : (590) 28 46 19
Fax : (590) 28 66 24

Hong Kong
Legrand (HK) Ltd
Tel. : (852) 2687 4200
Fax : (852) 2687 4300

Hungary
Legrand
Tel. : (36) 63 510 204
Fax : (36) 63 510 210

India
Legrand
Tel. : (91) 22 30416200
Fax : (91) 22 24933158

Indonesia
Legrand
Tel. : (62) 21 525 06 08
Fax : (62) 21 525 59 35

Iran
Alborz Electrical Industries Ltd
Tel. : (98) 218 873 94 57/86 70
Fax : (98) 218 873 79 03

Ireland
Legrand Ireland Ltd
Tel. : (353) 12 95 44 65/67
Fax : (353) 12 95 46 71

Italy
Legrand S.p.a.
Tel. : (39) 02 900 281
Fax : (39) 02 900 289 88

Kazakhstan
Legrand
Tel. : (7) 3272 703 699
Fax : (7) 3272 703 753

Korea
Anam Legrand Co. Ltd
Tel. : (82) 31 299 1107
Fax : (82) 31 293 3381

Latvia
Legrand
Tel. : (371) 78 16 234
Fax : (371) 78 16 235

Lebanon
Legrand
Tel. : (961) 1 422 166
Fax : (961) 1 422 167

Lithuania
Legrand
Tel. : (370) 523 56 500
Fax : (370) 523 56 700

Malaysia
Legrand
Tel. : (603) 2380 11 07
Fax : (603) 2380 10 91

Mexico
Legrand
Tel. : (52) 55 50 83 01 80
Fax : (52) 55 52 60 44 98

Morocco
Simapel
Tel. : (212) 2 235 93 73
Fax : (212) 2 235 58 30

Netherlands
Van Geel Legrand
Tel. : (31) 411 653200
Fax : (31) 411 674240

New Zealand
Legrand (NZ) Ltd
Tel. : (64) 9 303 3350
Fax : (64) 9 303 3503

Poland
Legrand
Tel. : (48) 748 162 300
Fax : (48) 748 152 149

Portugal
Legrand Electrica S.A.
Tel. : (351) 21 454 88 00
Fax : (351) 21 454 88 86

Reunion
Legrand Indian Ocean
Tel. : 02 62 90 01 80
Fax : 02 62 90 01 89

Romania
Legrand
Tel. : (40) 21 243 0937
Fax : (40) 21 243 0775

Russia
Legrand P.T.
Tel. : (7) 095 755 58 00
Fax : (7) 095 755 58 08

Saudi Arabia
Legrand
Tel. : (966) 2 651 28 48
Fax : (966) 2 651 74 34

Serbia and Montenegro
Legrand
Tel. : (381) 11 245 39 36
Fax : (381) 11 344 28 87

Singapore
Legrand (S) Pte Ltd
Tel. : (65) 6416 1550
Fax : (65) 6416 1580

Slovakia
Legrand
Tel. : (421) 2 54 79 38 40
Fax : (421) 2 54 79 38 41

Slovenia
Legrand
Tel. : 386 (0) 1 54 64 100
Fax : 386 (0) 1 54 64 110

South Africa
Legrand electrical accessories
Tel. : (27) 11 444 79 71
Fax : (27) 11 444 79 80

Spain
Legrand Española S.L.
Tel. : (34) 91 656 18 12
Fax : (34) 91 656 67 88

Switzerland
Legrand (Suisse) S.A.
Tel. : (41) 56 464 67 67
Fax : (41) 56 464 67 60

Syria
Legrand
Tel. : (963) 11 231 4008

Turkey
Legrand
Tel. : (90) 262 751 1258
Fax : (90) 262 751 1267

U.A.E.
Legrand
Tel. : (971) 48 816 178
Fax : (971) 48 818 145

Ukraine
Legrand
Tel. : (38) 044 494 00 10
Fax : (38) 044 490 67 56

United States
Legrand North America
Tel. : (1) 860 523 3644
Fax : (1) 860 570 2813

Vietnam
Legrand
Tel. : (848) 9 307 448
Fax : (848) 9 307 449

West Indies
Legrand
Tel. : 05 96 42 85 87
Fax : 05 96 42 96 87

Other countries :
www.legrandelectric.com

International department direct :
Tel. : 33 5 55 06 87 87
Fax : 33 5 55 06 74 55

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com

Arena-Walsall, CAB 3, Colring, Colson, DPX, Hypra, Lina 25, Linafix, Linasleeve, P17 Tempra, Rolfe King, Salamandre, Salsa, Starfix, Swifts, Synergy, Tenby, Transcab and the Legrand logo are registered trademarks of the Legrand group of companies in the United Kingdom.

DX, EconoRex, MaxiRex, Mosaic, Microlux, MicroRex, Nylbloc and Rex are trademarks of the Legrand group of companies.

Distributor :

2007/2009 CATALOGUE.07.2007.17K

LEGRAND ELECTRIC LIMITED
Great King Street North, Birmingham, B19 2LF
Tel : 0870 608 9000 Fax : 0870 608 9004

Customer Services :
Tel : 0845 605 4333 Fax : 0845 605 4334
E-mail : legrand.sales@legrand.co.uk

Technical Support :
Tel : 0870 608 9020 Fax : 0870 608 9021
E-mail : technical.uk@legrand.co.uk

Website : www.legrand.co.uk

ibemo Kazakhstan - 090301 Republic of Kazakhstan, West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex
Phone: +7 71133 93077 ; Fax: +7 71133 93074 ; E-Mail: info@ibemo-kz.com