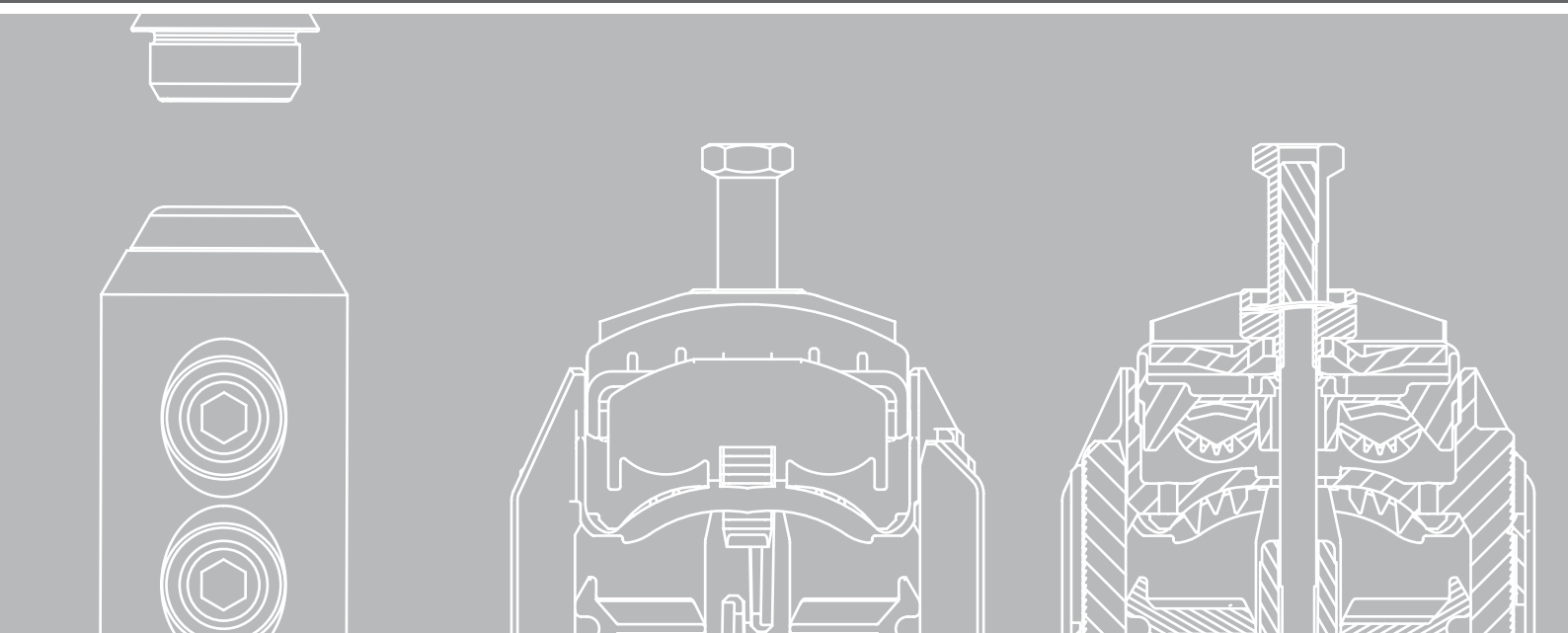


PFISTERER



EDITION 2008

COMPONENTS

**Components and Systems for Low-Voltage
and Medium-Voltage Networks.**

THE POWER CONNECTION

CABLE SYSTEMS | COMPONENTS | OVERHEAD LINES | RAILWAY CATENARY SYSTEMS

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Components and systems for low and medium voltage networks.

Safe, reliable power transmission in low-voltage and medium-voltage power networks needs sophisticated solutions that can not only withstand the harshest conditions but also remain cost-effective. Development and manufacture accordingly demand a great deal of experience and highly specialised know-how. We have packed all the knowledge we have accumulated in this specific field of application into the competence centre COMPONENTS.

More than 85 Years Experience have Shaped our Product Programme.

You will find a range of selected products here that combine innovation and tradition. COMPONENTS offers you products and systems for applications in LV and MV equipment:

- **Contact and jointing elements for cable networks**
- **Components and systems for low-voltage distribution**
- **Connection and jointing elements for overhead line networks**
- **High-current connectors for industry**
- **Safety equipment**



Connection, link and branch elements for cable networks.

The product range includes wedges, links and cable lugs many of which have been proven to work satisfactorily over several years in practical applications. However, good isn't always good enough.

We constantly strive to offer new solutions using sophisticated product development techniques to achieve better efficiency and safety during installation. For example: ISICOMPACT and SICON

ISICOMPACT. Four Tab Connections with only One Bolt!

1968: PFISTERER registered the patent for a "copact tap connector", "SCK" for short, or "clamping ring". Today: The patent has become a best-seller. Now it's hard to imagine Central European LV networks without SCK.

But nothing is so good that it can't be made even-better. ISICOMPACT features a new generation of clamping rings.

- One for all. ISICOMPACT accepts main conductors in the range from 70 – 185 mm² and tap conductors from 6 – 70 mm² cross-section and can be used for all cable types (DIN and TGL).
- Easy insertion. Tap conductors are inserted from the side; the time-consuming insertion from the front is eliminated.
- Safer all round. ISICOMPACT is made from fully-insulating polyamide. That means: even more safety with live working.
- Less is more. Only one bolt to connect all contact elements.
- All under control. The captive stiffening ribs stop the contact plate penetrating into the insulation before the nut is tightened.
- Permanent contact. A shear nut acts as a "built-in" torque-spanner to ensure the optimal tightening torque. The pressure plate is spring-loaded and so ensures continuous contact force.
- No half measures. The assembly process is complete when the projecting bolt shears off. So you can forget about incomplete connections with ISICOMPACT! Mistakes are eliminated.

A strong team. ISICOMPACT is available as a set with suitable joints, system-approved to EN 50393.



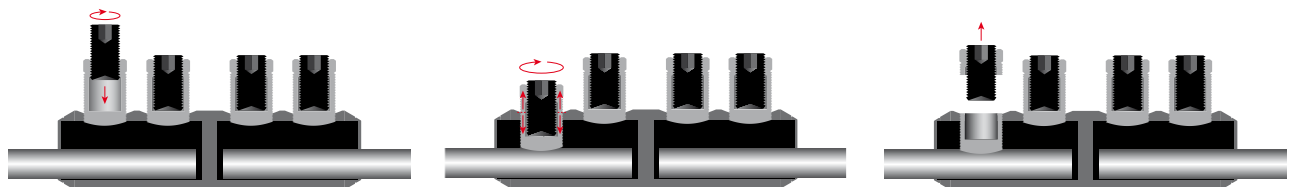
SICON. The First Cable Connector with Stepless Shear Bolts.

Screw technology with a difference!

The problem: The design strength of the multi-stage shear bolt – the integral predetermined breaking-points – is at the same time its decisive weakness. Each breaking point interrupts the load-carrying-thread, and the maximum clamping force cannot be achieved. A further disadvantage is that the stages must be very accurately matched to the cable

conductor used – otherwise the bolt will break either too high or too low.

The solution: The special design feature of these bolts is that there are no predetermined break points in the thread. This ensures optimum thread loading for any range of cross-sections. The bolt always breaks at the surface of the clamp body.



The technical features:

- Large clamping ranges: 10 – 95 mm²; 25 – 150 mm²; 50 – 240 mm²; 95 – 300 mm²; 300 – 630 mm²
- Compact design: Rounded edges and flat transitions suitable for slide-on and shrink sleeves
- Special variants for high voltage, e. g. in conjunction with PFISTERER IXOSIL cable terminations with clamping ranges up to 2500 mm²

The advantages:

- No special tool required
- Clean and soft shearing of the shear bolt makes it easier to tighten
- Everything flush! Nothing left projecting, nothing has to be filed down
- High contact force



Mixed Doubles! 2DIREKT Transformer Terminal Clamp.

2DIREKT brings safety and reliability together, where they belong: two types of terminal in a single body! The clamping channel and threaded hole for the clamping screw are identical.

So the copper and aluminium conductor can be connected horizontally or vertically to the secondary side of distribution transformers, as required. The

conductors are connected directly with no additional preparation, such as cable lugs, sleeves etc. That means: less time and effort on assembly, less susceptibility to errors, lower contact resistances as the number of contact is minimised.

The patented screw even clamps fine stranded conductors without shearing individual strands.

The technical features:

- Available as single, two, four and six conductor terminal clamp
- Horizontal or vertical conductor termination
- Suitable for fine-stranded conductors without wire-end ferrules
- Clamping range 35 mm² – 400 mm²

Transformer clamps: The product range

- 2DIREKT Transformer clamps
- Standard transformer clamps, also with earthing possibility
- Covers for indoor and for outdoor applications
- Terminal clamps with flat joint



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Terminations

Bolted cable lug

V type terminal clamps

Flat terminal clamps

Terminal clamp with flat plate



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Terminations

Transformer terminal clamps

Accessories

Connectors

Low voltage bolted connector

Medium voltage screw connector



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Connectors

Accessories

Tap-off connectors

Low voltage branch connector and joints

Medium voltage branch connector

Accessories



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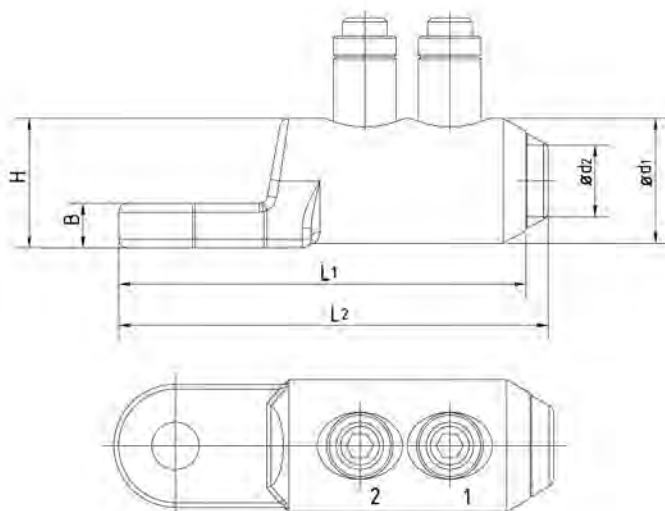
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SICON bolted cable lug

The special design of SICON bolts means that there are no fixed predetermined break points in the thread. Instead the bolt always breaks reliably at the surface of the clamp body.

- Nothing protrudes from the clamp body
- Full use of the thread load rating for any conductor cross section
- No special tools needed
- Smooth breakage of the shear bolt simplifies tightening



No.	Tap plate mounting hole Ø (mm)	Number of bolts	Width across flats	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L ₁ L ₁ (mm)	Dimension L ₂ L ₂ (mm)	Packing unit
332 604 010	13	1	SW 5	24	13	70	75	12
332 599 010	13	2	SW 5	28	16.3	91	96	12
332 595 010	13	2	SW 6	33	20	115	117	12
332 595 011	16.5	2	SW 6	35	20	120	122	12
332 605 010	13	2	SW 8	38	24	120	123	12
332 605 011	16.5	2	SW 8	35	24	120	123	12
332 625 010	13	3	SW 8	42	26	138	141	12
332 625 011	16.5	3	SW 8	42	26	138	141	12
332 606 010	16.5	3	SW 8	50	33	180	184	6

No.	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)
332 604 010	10 - 95	10 - 95	10 - 95	50 - 95	35 - 70	10 - 95	10 - 95	10 - 95	35 - 70
332 599 010	25 - 150	25 - 150	25 - 150	35 - 120	35 - 120	25 - 150	25 - 150	25 - 150	35 - 120
332 595 010	50 - 240	50 - 185	50 - 240	50 - 185	50 - 150	50 - 240	50 - 185	50 - 240	50 - 150
332 595 011	50 - 240	50 - 185	50 - 240	50 - 185	50 - 150	50 - 240	50 - 185	50 - 240	50 - 150
332 605 010	95 - 400	95 - 300	95 - 300	95 - 240	95 - 240	95 - 400	95 - 300	95 - 300	95 - 240
332 605 011	95 - 400	95 - 300	95 - 300	95 - 240	95 - 240	95 - 400	95 - 300	95 - 300	95 - 240
332 625 010	185 - 500	185 - 400	185 - 400	185 - 240	185 - 240	185 - 500	185 - 400	185 - 400	185 - 240
332 625 011	185 - 500	185 - 400	185 - 400	185 - 240	185 - 240	185 - 500	185 - 400	185 - 400	185 - 240
332 606 010	300 - 800	300 - 630	300 - 630	-	300 - 400	300 - 800	300 - 630	300 - 630	300 - 400

Serrated cable lug

The diversity of terminations and conductor materials as well as the variety of conductor constructions (solid, stranded, flexible, highly flexible) call for different types of cable lugs. Moreover, the dimensions of tap-plate and tap-plate mounting holes must match the different diameters of the terminal bolts.

Serrated cable lugs Al

with two terminal covers.



No.	Conductor cross section (mm ²)	Diameter of conductor Ø (mm)	Tap plate mounting hole Ø (mm)	Tap plate Ø (mm)	Screw	Dimension L L (mm)	Dimension S s (mm)	Packing unit
330 368 368	35 - 70	7,5 - 11,7	10.5	36	M8	83	7	20
330 369 369	70 - 120	10,5 - 14,0	13	40	M8	92	7	20

Serrated cable lugs Al/Cu with two caps

The size of the mounting hole should not be enlarged.



No.	Conductor cross section (mm ²)	Diameter of conductor Ø (mm)	Tap plate mounting hole Ø (mm)	Tap plate Ø (mm)	Screw	Dimension L L (mm)	Dimension S s (mm)	Packing unit
330 379 379	35 - 70	7,5 - 11,7	10.5	36	M8	83	12	20
330 379 875	35 - 70	7,5 - 11,7	13	36	M8	83	12	20
330 380 380	70 - 120	10,5 - 14,0	13	40	M8	92	13	20
330 381 951	150 - 240	15,8 - 20,3	13	40	M8	102	15	20



Serrated cable lugs Cu with one cap

No.	Conductor cross section (mm ²)	Diameter of conductor Ø (mm)	Tap plate mounting hole Ø (mm)	Tap plate Ø (mm)	Screw	Dimension L	Dimension S	Packing unit
						L (mm)	s (mm)	
330 311 311	10 - 35	3,5 - 7,5	10.5	30	M6	46	6	20
330 311 980	10 - 35	3,5 - 7,5	13	30	M6	46	6	20
330 312 971	35 - 70	7,5 - 10,5	13	30	M8	49	7	20
330 313 313	70 - 120	10,5 - 14,0	13	40	M8	58	7	20

V-type terminal clamps

Direct terminal clamps for connecting copper and aluminium conductors to V-shaped plates.

The cable is taken to the V-shaped busbar with transverse grooves without any intermediate links. The clamp, with bolt and thrust piece, is intended for use as a multi-range clamp for stranded copper or aluminium conductors or for solid aluminium conductors.

V type Direkta terminal clamps Al for one conductor

for copper and aluminium conductors for connecting to V-shaped plates.



No.	Number of conductors	Width across flats	Torque (Nm)	Width (mm)	Height (mm)	Length (mm)
331 847 847	1	SW 5	12	25.5	33	18
330 969 969	1	SW 6	25	34	45	22

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
331 847 847	16 - 50	16 - 50	35 - 95	35 - 70	16 - 50	16 - 50	35 - 70
330 969 969	35	35	50 - 240	35 - 185	35	35	35 - 185

Insulating Cap

No.	Suitable for
601 375 375	330 969 969



V plate

No.	Type	Thickness d (mm)	Hole Ø (mm)	Suitable for
550 740 008	straight	3	12.5	330 969 969
550 740 740	30° angled	3	12.5	330 969 969
552 999 001	straight	3	12.5	331 847 847
552 999 002	straight	3	8.4	331 847 847





V type Direkta terminal clamps Al for two conductors
for copper and aluminium conductors for connecting to V-shaped plates.

No.	Type	Number of conductors	Width across flats	Torque (Nm)	Width (mm)	Height (mm)	Length (mm)
331 659 659	-	2	SW 5	12	27.5	52	25
331 660 660	for 2 conductors	2	SW 6	25	33	74	29

No.	Al  (mm ²)	Al  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)	Cu  (mm ²)	Cu  (mm ²)
331 659 659	25 - 50	25 - 50	35 - 70	35 - 70	25 - 50	25 - 50	35 - 70
331 660 660	-	-	70 - 240	50 - 185	-	-	50 - 185



V plate

No.	Type	Thickness d (mm)	Hole Ø (mm)	Suitable for
550 740 001	10° angled	5	12.5	331 660 660

V type Direkta terminal clamp VN

for copper and aluminium conductors for connecting to V-shaped plates.



V type terminal clamps

No.	Width across flats		Torque (Nm)	Width (mm)	Height (mm)	Length (mm)	
330 971 001	SW 6		25	36.6	50.5	23	

No.	Al	Al	Al	Al	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
330 971 001	25 - 300	25 - 300	35 - 300	35 - 240	25 - 300	25 - 300	35 - 240

Insulating Cap

No.	Suitable for
546 012 024	330 971 001



VN plate

No.	Type	Thickness d (mm)	Hole Ø (mm)	Suitable for
550 741 003	10° angled	3	12.5	330 971 001



Flat terminal clamps

Direct terminal clamps for connecting stranded copper and aluminium cables as well as solid aluminium cables to flat busbars.



Flat Direkta terminal clamps Al with screw

for copper and aluminium conductors.

No.	Screw	Internal diameter of spring washer Ø (mm)	Number of conductors	Width (mm)	Height (mm)	Length (mm)
331 472 472	M12	12.2	1	32	44	44
331 867 867	M12	12.2	1	26	32	35

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
331 472 472	-	-	150 - 300	120 - 240	-	-	120 - 240
331 867 867	35 - 70	35 - 70	50 - 150	35 - 120	35 - 70	35 - 70	35 - 120



Flat Direkta terminal clamps Al without screws

for copper and aluminium conductors.

No.	Internal diameter of spring washer Ø (mm)	Number of conductors	for Screw	Width (mm)	Height (mm)	Length (mm)
331 962 962	10.2	1	M10	26	32	35
331 962 963	12.2	1	M12	26	32	35

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
331 962 962	35 - 70	35 - 70	50 - 150	35 - 120	35 - 70	35 - 70	35 - 120
331 962 963	35 - 70	35 - 70	50 - 150	35 - 120	35 - 70	35 - 70	35 - 120

Flat Direkta terminal clamps brass for one conductor

for copper and aluminium conductors.



No.	Screw	Internal diameter of spring washer Ø (mm)	Number of conductors	Width (mm)	Height (mm)	Length (mm)
331 575 580	M10	10.2	1	26	32.5	35.5
331 575 581	M12	12.2	1	26	32.5	35.5

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
331 575 580	-	-	95 - 185	70 - 150	-	-	70 - 150
331 575 581	-	-	95 - 185	70 - 150	-	-	70 - 150

Flat Direkta terminal clamps brass for two conductors

for copper and aluminium conductors.



No.	Screw	Internal diameter of spring washer Ø (mm)	Number of conductors	Width (mm)	Height (mm)	Length (mm)
331 584 584	M8	8.2	2	18	26	34
331 655 655	M12	12.2	2	26	35	47

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
331 584 584	16 - 35	16 - 35	50	16 - 35	16 - 35	16 - 35	16 - 35
331 655 655	-	-	70 - 150 2 x 185	50 - 120 2 x 150	-	-	50 - 120 2 x 150

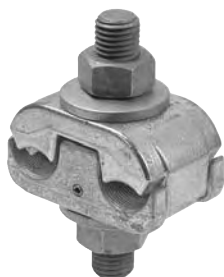


Flat Direkta terminal clamps brass for one conductor

for circular copper and aluminium conductors.

No.	Screw	Number of conductors	Width (mm)	Height (mm)	Length (mm)
332 028 028	M12	1	35	36	50

No.	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)
332 028 028	95 - 300	95 - 300	-	-	95 - 300	95 - 300	-



Flat Direkta terminal clamps MS for two conductors

with threaded pin for circular copper and aluminium conductors.

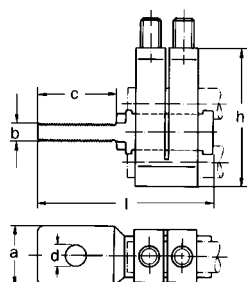
No.	Screw	Number of conductors	Width (mm)	Height (mm)	Length (mm)
332 109 109	M16	2	41	52	69

No.	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)
332 109 109	95 - 300	95 - 300	-	-	95 - 300	95 - 300	-

Terminal clamp with flat plate

Two core terminal clamp with flat plate

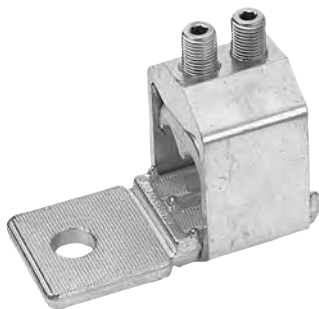
for Cu and Al conductors (circular and sector shaped),
with 2 thrust bolts.



Terminal clamp with flat plate

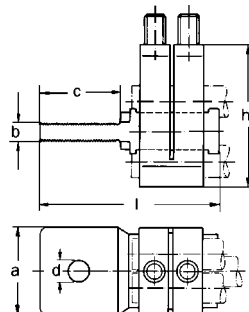
No.	Number of conductors	Dimension A	Dimension B	Dimension C	Dimension D	Dimension H	Dimension L	Packing unit
		a (mm)	b (mm)	c (mm)	d (mm)	h (mm)	L (mm)	
331 751 751	2	45	10	48	-	101	113	4
331 820 182	2	45	10	48	13	101	113	4
331 820 820	2	45	10	48	17	101	113	4

No.	Cu	Al	Al	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)
331 751 751	120 - 300	120 - 300	120 - 185	120 - 185
331 820 182	120 - 300	120 - 300	120 - 185	120 - 185
331 820 820	120 - 300	120 - 300	120 - 185	120 - 185



Triple conductor clamps with flat plate

for Cu and Al circular conductors,
with 2 thrust bolts.



No.	Number of conductors	Dimension A	Dimension B	Dimension C	Dimension D	Dimension H	Dimension L	Packing unit
		a (mm)	b (mm)	c (mm)	d (mm)	h (mm)	L (mm)	
332 142 081	3	52	9.5	56	-	92	121	4
332 142 001	3	52	9.5	56	14	92	121	4
332 142 142	3	52	9.5	56	17	92	121	4

No.	Cu	Al
	(mm ²)	(mm ²)
332 142 081	95 - 185	95 - 185
332 142 001	95 - 185	95 - 185
332 142 142	95 - 185	95 - 185

Transformer terminal clamps

for terminal bolts compliant with DIN EN 50386.

current strength	bolts	transformer sizes
250 A	M12	100 kVA / 160 kVA
630 A	M20	250 kVA / 400 kVA
1250 A	M30 x 2	630 kVA
2000 A	M42 x 3	800 kVA / 1000 kVA
3150 A	M48 x 3	1250 kVA / 1600 kVA

When fitting clamps with 2 thrust bolts, ensure that the thrust bolts are tightened at least 6 times alternately up to a torque of 25 Nm (not applicable for 2DIREKT transformer connection clamps). The terminal screws on the transformer terminal bolts must be tightened to 20 Nm.

- The clamp channels have been designed so that both round and sector-shaped conductors can be clamped
- Multi-range use thanks to electrolytic tinning, suitable for both Al and Cu conductors
- Suitable for outdoor use if used with the corresponding cover
- Easy assembly with an SW6 pin wrench, no special tools required



2DIREKT single wire transformer terminal clamp

for terminal bolts compliant with DIN EN 50386.

For **horizontal** or **vertical** connection of Cu or Al cables to the secondary side of distribution transformers with DIN EN 50386 compliant bolted connections (1 kV).

2DIREKT terminal clamps are type tested in compliance with IEC 61238 with Cu cables, 240 mm².

Width across flats 8 for thrust bolts, 55 Nm.

Lock with 50 Nm.

Other types on request.

No.	Conductor cross sections (mm ²)	Number of conductors	Terminal bolt (mm)	Width (mm)	Height (mm)	Packing unit
331 745 001	35 - 240	1	M12	30	34	4
331 745 003	35 - 240	1	M16	30	34	4
331 745 002	35 - 240	1	M20	30	34	4



Cover for 2DIREKT single wire terminal

No.	Type	For terminal clamp	Packing unit
331 345 001	Internal use	331 745 001 331 745 002 331 745 003	4
331 345 002	Outdoor use	331 745 001 331 745 002 331 745 003	4

2DIREKT two wire transformer terminal clamp

for terminal bolts compliant with DIN EN 50386.

For **horizontal** or **vertical** connection of Cu or Al cables to the secondary side of distribution transformers with DIN EN 50386 compliant bolted connections (1 kV).

2DIREKT terminal clamps are type tested in compliance with IEC 61238 with Cu cables, 240 mm².

Width across flats 8 for thrust bolts, 55 Nm.

Width across flats 6 for cheese-head bolts, 25 Nm.

Other types on request.



No.	Conductor cross sections (mm ²)	Number of conductors	Terminal bolt (mm)	Width (mm)	Height (mm)	Packing unit
331 746 004	35 - 240	2	M12	64	34	4
331 746 006	35 - 240	2	M16	64	34	4
331 746 003	35 - 240	2	M20	64	34	4
331 746 002	35 - 240	2	M30x2	64	34	4

Cover for 2DIREKT two wire terminal

No.	Type	For terminal clamp	Packing unit
331 346 001	Internal use	331 746 002 331 746 003 331 746 006	4
331 346 003	Internal use	331 746 004	4
331 346 002	Outdoor use	331 746 002 331 746 003 331 746 006	4
331 346 004	Outdoor use	331 746 004	4





2DIREKT four wire transformer terminal clamp

for terminal bolts compliant with DIN EN 50386.

For **horizontal** or **vertical** connection of Cu or Al cables to the secondary side of distribution transformers with DIN EN 50386 compliant bolted connections (1 kV).

2DIREKT terminal clamps are type tested in compliance with IEC 61238 with Cu cables, 240 mm².

Width across flats 8 for thrust bolts, 55 Nm.

Width across flats 6 for cheese-head bolts, 25 Nm.

Other types on request.

No.	Conductor cross sections (mm ²)	Number of conductors	Terminal bolt (mm)	Width (mm)	Height (mm)	Packing unit
331 747 004	35 - 240	4	M20	64	74	4
331 747 001	35 - 240	4	M30 x 2	64	74	4
331 747 002	35 - 240	4	M42 x 3	64	74	4
331 747 003	35 - 240	4	M48 x 3	64	74	4

1 Cover for 2DIREKT four wire terminal



No.	Type	For terminal clamp	Packing unit	
331 347 001	Internal use	331 747 001 331 747 002 331 747 004	4	1
331 347 002	Outdoor use	331 747 001 331 747 002 331 747 004	4	1
331 348 002	Internal and outdoor use	331 747 003	4	2

2

DIREKT six wire transformer terminal clamp

for terminal bolts compliant with DIN EN 50386.

For **horizontal** connection of Cu or Al cables to the secondary side of distribution transformers with DIN EN 50386 compliant bolted connections (1 kV).

DIREKT terminal clamps are type tested in compliance with IEC 61238 with Cu cables, 240 mm².

Width across flats 8 for thrust bolts, 55 Nm.

Width across flats 6 for cheese-head bolts, 25 Nm.

Other types on request.



No.	Conductor cross sections (mm ²)	Number of conductors	Terminal bolt (mm)	Width (mm)	Height (mm)	Packing unit
331 749 002	185 - 400	6	M42 x 3	110	87	4
331 749 001	185 - 400	6	M48 x 3	110	87	4

Cover for DIREKT six wire terminal

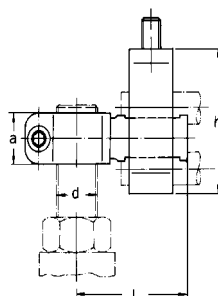
No.	Type	For terminal clamp	Packing unit
331 348 001	Internal and outdoor use	331 749 001 331 749 002	4 1
331 348 002	Internal and outdoor use	331 749 001 331 749 002	4 2





Transformer terminal clamps

with bolt terminal (90° angled) for Cu and Al conductors (circular and sector shaped). The terminal part is offset so that two clamps for **triple and quadruple conductor connection** can be mounted one above the other.



No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
331 914 914	2	M12	28	72	55	332 369 001	4
331 914 916	2	M20	28	72	55	332 369 001	4

No.	Cu (mm²)	Al (mm²)	Al (mm²)	Cu (mm²)
331 914 914	50 - 150	50 - 150	50 - 150	50 - 150
331 914 916	50 - 150	50 - 150	50 - 150	50 - 150

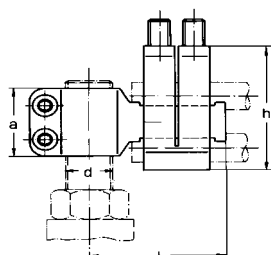
Covers for Transformer terminal clamps



No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 369 001	72	183	331 914 914 331 914 916	4

Transformer terminal clamps

with bolt terminal (90° angled) for Cu and Al conductors (circular and sector shaped).
The terminal part is offset so that two clamps for **triple and quadruple conductor connection** can be mounted one above the other.



No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
331 993 003	2	M20	36	101	84	332 371 001	4
331 993 993	2	M30 x 2	36	101	84	332 371 001	4
331 993 994	2	M42 x 3	36	101	84	332 371 001	4

No.	Cu (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)
331 993 003	120 - 300	120 - 300	120 - 185	120 - 185
331 993 993	120 - 300	120 - 300	120 - 185	120 - 185
331 993 994	120 - 300	120 - 300	120 - 185	120 - 185

Covers for Transformer terminal clamps

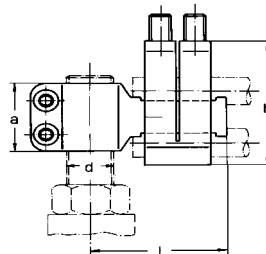
No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 371 001	110	270	331 993 003 331 993 993 331 993 994	4





Transformer terminal clamps

with bolt terminal (90° angled) for Cu and Al conductors.



No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
332 082 001	3	M20	38	90	80	332 340 001	4
332 082 082	3	M30 x 2	38	90	80	332 340 001	4

No.	Cu  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)
332 082 001	95 - 185	-	95 - 185	-
332 082 082	95 - 185	-	95 - 185	-

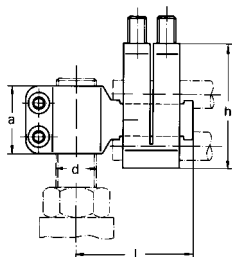
Covers for Transformer terminal clamps



No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 340 001	110	250	332 082 001 332 082 082	4

Transformer terminal clamps

with bolt terminal (90° angled) for Cu and Al conductors (circular and sector shaped).



No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
331 744 002	2	M12	34	101	84	332 346 001	4
331 744 744	2	M20	34	101	84	332 340 001	4
331 744 748	2	M30 x 2	38	101	87	332 340 001	4

No.	Cu  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)
331 744 002	120 - 300	120 - 300	120 - 185	120 - 185
331 744 744	120 - 300	120 - 300	120 - 185	120 - 185
331 744 748	120 - 300	120 - 300	120 - 185	120 - 185

Covers for Transformer terminal clamps

No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 346 001	60	190	331 744 002	4
332 340 001	110	250	331 744 744 331 744 748	4





Ball pin for terminal clamps
with earthing facility.

No.	Ball diameter Ø (mm)	Maximum permissible short-circuit current I _k (kA/1s)	Thread G	For terminal clamp	Matching cover
625 097 002	20	18.50	M20	331 744 744 332 082 001	332 340 002
625 097 003	20	18.50	M30 x 2	331 744 748 332 082 082	332 340 002

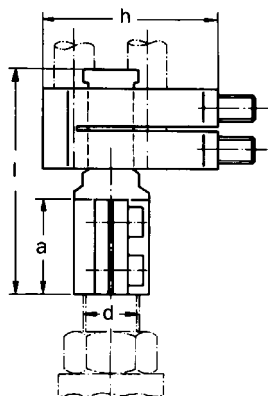
Covers for Transformer terminal clamps with ball pin device



No.	Dimension D d (mm)	Dimension L L (mm)	For ball pin	For terminal clamp	Packing unit
332 340 002	110	305	625 097 002 625 097 003	331 744 744 332 082 001 331 744 748 332 082 082	4

Transformer terminal clamps

with bolt terminal (straight) for Cu and Al conductors (circular and sector shaped).



Transformer terminal clamps

No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
331 852 001	2	M12	42	101	106	332 384 001	4
331 852 855	2	M20	42	101	106	332 383 002	4
331 852 857	2	M30 x 2	42	101	106	332 383 002	4

No.	Cu  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)
331 852 001	120 - 300	120 - 300	120 - 185	120 - 185
331 852 855	120 - 300	120 - 300	120 - 185	120 - 185
331 852 857	120 - 300	120 - 300	120 - 185	120 - 185

Covers for Transformer terminal clamps

No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 384 001	60	254	331 852 001	4
332 383 002	100	290	331 852 855 331 852 857	4





Four core transformer terminal clamp

with bolt terminal (straight) for Cu and Al conductors (circular and sector shaped).

No.	Number of conductors	Terminal bolt (mm)	Dimension A a (mm)	Dimension H h (mm)	Dimension L L (mm)	Matching cover	Packing unit
332 436 003	4	M30 x 2	52	101	113	332 445 001	4
332 436 001	4	M42 x 3	52	101	113	332 435 001	4

No.	Cu (mm²)	Al (mm²)	Al (mm²)	Cu (mm²)
332 436 003	120 - 300	120 - 300	120 - 185	120 - 185
332 436 001	120 - 300	120 - 300	120 - 185	120 - 185

Covers for Transformer terminal clamps



No.	Dimension D d (mm)	Dimension L L (mm)	For terminal clamp	Packing unit
332 435 001	122	339	332 436 001	4
332 445 001	105	285	332 436 003	4

Spool piece

for transformer terminal clamps, insulated on one side.



No.

623 409 001

Al elast contact discs

Al elast contact discs are used for screw connections designed to carry the full current for planar aluminium and aluminium and copper or aluminium with bronze connection surfaces.

The Al elast contact disc surfaces are tin-plated to keep them free of non-conducting aluminium oxide layers.

Al elast contact discs were subjected to comprehensive ageing tests in the PFISTERER testing laboratories. Amongst other things up to 2500 heating cycles were carried out with test currents up to 1250A and at temperatures up to 115 °C at the connection points. Comparison tests showed that the resistance of the Al elast contact disc connections was only about 20 - 30% of that of comparable traditional rail connections after the end of the durability tests.

The given load values apply when using Al elast contact discs on DIN 46206 flat connections and DIN 43673 busbar screw connections and with similar configurations.

In order to achieve the best possible force input into the Al elast contact disc 36 mm external diameter, 4 mm thick large surface steel discs are used

Diameter 37 mm

Thread	8.8 steel Nm	A2 F80 / A4 Nm	Cu-Ni alloy Nm	Rated current A
M10	-	-	39	600
M10	46	43	-	750
M12	-	-	68	1000
M12	80	75	-	1250
M16	120	120	120	1250

Al elast contact discs

with integrated adapter for screw,
without steel washers.



No.	Contact disc diameter Ø (mm)	Adapter for screw	Packing unit
332 127 127	37	M10 - M16	50



Steel washers

No.	Contact disc diameter	Thickness	Washers suitable for screws	Packing unit
	Ø (mm)	(mm)		
619 099 007	36	4	M12	100



Assembly set

with integrated adapter for M12 - M16 screws and 2 steel washers for flat terminals and connections in outdoor substations and indoor installations.

The Al elast contact discs are supplied with two washers Ø 36 mm, packed in bags.

No.	Washers suitable for screws	Pitch min.	Packing unit
		(mm)	
332 110 001	M12	40	25
332 110 004	M16	40	25



Cu Contact Ring

for an optimal contact between insulated and bare copper busbars.

Thus the insulation is penetrated when it is fitted onto the insulated busbar.

No.	Nominal current	Max. short circuiting current	Washers suitable for screws	Torque	Max. insulation thickness
	I _N (A)	I _k 1s/kA		(Nm)	(mm)
624 120 002	1250	40	M12 - St 8.8 tZn	80	1.50

Bi-metal discs Al/Cu

Due to electrochemical influence on Al and Cu contact surfaces, transition resistances occur. Bi-metal discs effectively prevent contacts from these effects.

No.	Diameter D1	Diameter D2	Thickness	Washers suitable for screws
	Ø d1 (mm)	Ø d2 (mm)	(mm)	
302 028 026	18	8.5	1	M8
302 028 027	22	10.5	1	M10
302 028 029	26	11	1	M10
302 028 030	26	13	2	M12
302 028 031	30	13	2	M12
302 028 032	38	13	2	M12
302 028 034	38	17	2	M16



Contact grease compound P1

PFISTERER Contact Grease Compound P1 permanently protects Al/Al and Al/Cu bolted connections on outdoor and indoor installations against corrosion.

Together with its high temperature resistance, i.e. 90 °C during continuous operation and 200 °C during short-circuits, a reliable transmission of continuous current is guaranteed.

Contact Grease Compound P1 has good adhesive properties, **is non-conductive**, water-resistant as well as to an atmosphere containing steam, SO₂/SO₃, sodium chloride, nitrous gases, chlorine and ozone.



No.	Filling weight (kg)
002 996 001	0.1
001 531 531	0.56
001 937 937	25



Battery impact wrench

This battery-operated impact wrench is ideal for using to tighten shear bolts. The ergonomic design with a soft grip support is compact, a good weight and has an optimum centre of gravity that guarantees careful work. As the battery can be switched in two directions, working with the battery-operated impact wrench is flexible. The strong gear box ensures that the wrench has a long service life. The battery-operated impact wrench has an electronic system with revolution control as well as clockwise or anti-clockwise rotation.

Technical data:

- Battery pack voltage/capacity: 14,4 V/2 Ah - 2 pieces
- Battery charger
- No. of strokes: 0-2500 1/min
- Idle speed: 0-2200 U/min
- Tool housing: 1/2" SD
- Weight inc. battery: 2.1 kg
- Special tool set:
Allen nut SW 5, SW 6, SW 8
Load -carrying nut SW 10, SW 13, SW 16, SW 19

No.

305 917 001

IN K 19 power screwdriver bit 1/2"



No.	Width across flats (SW)	Length of peak (mm)
305 917 106	6	9
305 917 107	6	19

Brace for mechanical connector

For bracing mechanical connectors.

Properties:

- Infinitely adjustable for mechanical connections with a cross section range of 25 mm² - 240 mm² and a diameter of 14 - 35 mm
- Length 280 mm
- Weight: 400 g
- Insulation to comply with EN/IEC 60900



No.

331 901 900

Plastic cover for SICON

Saves using fillers on the shear spot.



No.	Diameter Ø (mm)	Suitable for	Packing unit
625 229 100	19	332 447 010	6
625 229 110	19	332 592 010 332 595 010 332 595 011 332 614 010	4
625 229 210	15	332 607 010 332 593 010 332 599 010 332 601 010 332 604 010	4
625 229 310	22	332 602 010 332 605 010 332 605 011 332 617 010 332 625 010	4



Storage battery cable cutting tool

Efficient, handy, one-hand operation, no physical stress, for all Cu and Al cables up to 50 mm diameter, for max. Cu 4 x 95 mm² and Al 4 x 185 mm².

Included in delivery:

- Cordless cable cutting tool
- Battery
- Battery charger
- Carrying case

No.	Cuts per battery charge	Charging voltage	Cutting force	Cable diameter max.	Charging time	Weight
		(V AC)	(kN)	max. Ø (mm)	(min.)	(kg)
305 911 001	approx. 50	220 - 240	25	50	approx. 120	2.0



Spare Battery

Properties:

- 50% more process cycles compared with the charging procedure for conventional batteries
- Low power loss due to low internal resistance
- Sparing operation due to prevention of heat build up
- High breaking strength thanks to fibre glass reinforced polyamide housing

No.	Type	Capacity	Output voltage	Weight	Dimensions
		(Ah)	(V DC)	(kg)	(mm)
619 435 008	BAT-20	2	14.4	0.8	125 x 70 x 120



Spare battery charger CAR-01

Properties:

- Increased battery life due to sparing charging procedure
- Battery check by charging process control (LPC)
- No memory effect possible with battery
- Continuous monitoring of the battery charging status by LED
- Battery check and self-test before starting the charging process
- Battery defect indication
- Battery pressure increase protection

No.	Type	Input voltage	Weight	Dimensions
		(V AC)	(kg)	(mm)
305 844 002	CAR-01	220 - 240	0.5	150 x 85 x 75

Cable sheath cutting tool

with depth stop.

- With cutting angle settings 0° - 45° and 90°
- For aluminium and lead-sheathed cables
- For cable diameters to 40 mm
- Weight approx. 1.4 kg

No.	Penetration depth
	(mm)
300 863 344	1.50
300 863 345	4.00

Spare cutter wheel

with depth stop.

No.	Penetration depth
	(mm)
610 071 071	1.50
302 161 161	4.00



Connection clamps

Properties:

- Either Al or Cu conductor connection
- Simple, time-saving assembly without special tools
- Oil-proof closing of terminal channels for connectors with blind hole

Required torque:

at SW 6: 25 Nm,
at SW 5: 12 Nm,
at SW 4: 7 Nm.

Connection clamps Al with blind hole

for copper and aluminium conductors.

Specially-developed for creating connections for heat shrinking processes



No.	Width across flats	Torque (Nm)	Shear head	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 441 001	SW 4	7	-	14	8	40	25
332 213 002	SW 5	-	■	25	12	55	25
332 213 213	SW 5	12	-	25	12	55	25
332 373 002	SW 5	12	-	25	14	55	25
332 312 003	SW 6	25	-	28	18.5	70	20
332 312 004	SW 6	-	■	28	18.5	70	20
332 212 001	SW 6	-	■	35	21	80	20
332 212 212	SW 6	25	-	35	21	80	20

No.	Al  (mm²)	Al  (mm²)	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cu  (mm²)
332 441 001	4 - 35	4 - 35	4 - 35	-	4 - 35	4 - 35	-
332 213 002	6 - 70	25 - 70	6 - 70	25 - 50	6 - 70	25 - 70	25 - 50
332 213 213	6 - 70	25 - 70	6 - 70	25 - 50	6 - 70	25 - 70	25 - 50
332 373 002	6 - 95	25 - 95	6 - 95	25 - 70	6 - 95	25 - 95	25 - 70
332 312 003	35 - 150	35 - 150	35 - 150	35 - 120	35 - 150	35 - 150	35 - 120
332 312 004	35 - 150	35 - 150	35 - 150	35 - 120	35 - 150	35 - 150	35 - 120
332 212 001	50 - 185	50 - 185	50 - 185	50 - 150	50 - 185	50 - 185	50 - 150
332 212 212	50 - 185	50 - 185	50 - 185	50 - 150	50 - 185	50 - 185	50 - 150

Connection clamps Al with through-hole and viewing hole

for copper and aluminium conductors.

Specially-developed for creating connections for heat shrinking processes.



No.	Width across flats	Torque (Nm)	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 213 001	SW 5	12	25	12	55	25
332 373 001	SW 5	12	25	14	50	25
332 375 001	SW 6	25	32	19	70	20
332 375 003	SW 6	25	32	19	70	20

No.	Al (mm²)	Al (mm²)	Al (mm²)	Al (mm²)	Cu (mm²)	Cu (mm²)	Cu (mm²)
332 213 001	6 - 70	25 - 70	6 - 70	25 - 50	6 - 70	25 - 70	25 - 50
332 373 001	6 - 95	25 - 95	6 - 95	25 - 70	6 - 95	25 - 95	25 - 70
332 375 001	25 - 150	25 - 150	25 - 150	25 - 120	25 - 150	25 - 150	25 - 120
332 375 003	50 - 150	50 - 150	50 - 150	35 - 120	50 - 150	50 - 150	35 - 120

Connection clamps Al with blind hole

for copper and aluminium conductors.

Specially-developed for creating connections for heat shrinking processes.



No.	Width across flats	Torque (Nm)	Shear head	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 409 001	SW 6	25	-	38	22.5	128	10
332 409 003	SW 6	-	■	38	22.5	128	10

No.	Al (mm²)	Al (mm²)	Al (mm²)	Al (mm²)	Cu (mm²)	Cu (mm²)	Cu (mm²)
332 409 001	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240
332 409 003	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240	120 - 240



Al combi connection clamp

for copper and aluminium conductors.

No.	Width across flats		Torque (Nm)	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 402 001	SW 6		25	32	19	100	20

No.	Al	Al	Al	Al	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 402 001	25 - 150	25 - 150	25 - 150	25 - 120	25 - 150	25 - 150	25 - 120



Connecta single core connection clamp

Properties:

- Suitable for different conductor types (sector-shaped stranded, sector-shaped solid, circular stranded and circular solid conductors)
- Compact space-saving construction, suitable for all common plastic and cast-iron joint boxes
- Simple, time-saving assembly without special tools
- No rounding of sector-shaped conductors

No.	Width across flats	Torque (Nm)	Dimension B b (mm)	Dimension D d (mm)	Dimension H h (mm)	Dimension L L (mm)	Packing unit
332 148 148	SW 6	25	30	21	35.5	55	10

No.	Al	Al	Al	Al	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 148 148	50 - 150	50 - 185	50 - 150	50 - 150	50 - 150	50 - 185	50 - 150

Connecta quadruple core connection clamp

Properties:

- Suitable for different conductor types (sector-shaped stranded, sector-shaped solid, circular stranded and circular solid conductors)
- Optional connection of aluminium and copper conductors
- Compact space-saving construction, suitable for all common PVC and cast-iron joint boxes
- Simple, time-saving assembly without special tools
- No round-forming of sector-shaped conductors



No.	Width across flats	Torque	Dimension B	Dimension D	Dimension H	Dimension L	Packing unit
		(Nm)	b (mm)	d (mm)	h (mm)	L (mm)	
331 850 850	SW 5	12	52	11	53	70	12
332 147 147	SW 6	25	73	21	77	80	8

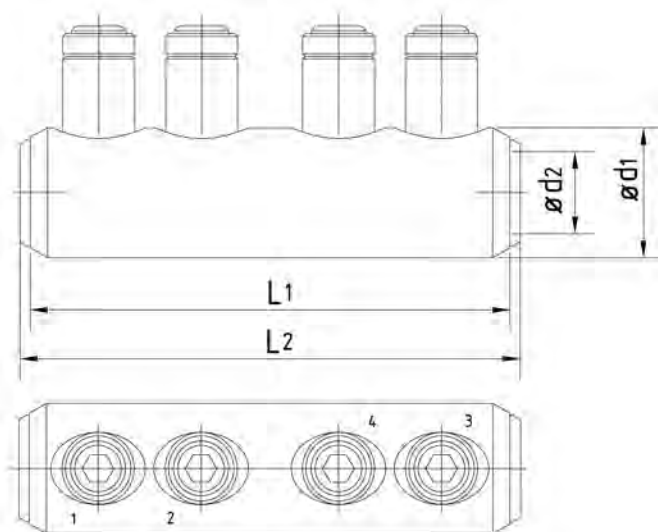
No.	Al	Al	Al	Al	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
331 850 850	10 - 50	10 - 50	10 - 50	25 - 35	10 - 50	10 - 50	25 - 35
332 147 147	50 - 150	50 - 185	50 - 150	50 - 150	50 - 150	50 - 185	50 - 150



SICON connector with blind hole

The special design of SICON bolts means that there are no fixed predetermined break points in the thread. Instead the bolt always breaks reliably at the surface of the clamp body.

- Nothing protrudes from the clamp body
- Full use of the thread load rating for any conductor cross section
- No special tools needed
- Smooth breakage of the shear bolt simplifies tightening



No.	Number of bolts	Width across flats	Diameter D1	Diameter D2	Dimension L ₁	Dimension L ₂	Packing unit
			Ø d1 (mm)	Ø d2 (mm)	L ₁ (mm)	L ₂ (mm)	
332 601 010	2	SW 5	24	13	65	75	12
332 607 010	2	SW 5	28	16.3	68	78	12
332 593 010	4	SW 5	28	16.3	102	112	12
332 592 010	4	SW 6	33	20	126	130	12
332 614 010	4	SW 6	35	21	126	132	12
332 602 010	4	SW 8	38	24	140	146	12
332 617 010	6	SW 8	42	26	170	176	12
332 603 010	6	SW 8	50	33	230	238	12

No.	Al	Al	Al	Al	Al	Cu	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 601 010	10 - 95	10 - 95	10 - 95	50 - 95	35 - 70	10 - 95	10 - 95	10 - 95	35 - 70
332 607 010	25 - 150	25 - 150	25 - 150	35 - 120	35 - 120	25 - 150	25 - 150	25 - 150	35 - 120
332 593 010	25 - 150	25 - 150	25 - 150	35 - 120	35 - 120	25 - 150	25 - 150	25 - 150	35 - 120
332 592 010	50 - 240	50 - 185	50 - 240	50 - 185	50 - 150	50 - 240	50 - 185	50 - 240	50 - 150
332 614 010	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240	50 - 240
332 602 010	95 - 400	95 - 300	95 - 300	95 - 240	95 - 240	95 - 400	95 - 300	95 - 300	95 - 240
332 617 010	185 - 500	185 - 400	185 - 400	185 - 240	185 - 240	185 - 500	185 - 400	185 - 400	185 - 240
332 603 010	300 - 800	300 - 630	300 - 630	-	300 - 400	300 - 800	300 - 630	300 - 630	300 - 400

Screen wire connector brass

for screen wires or concentric conductors up to 70 mm².



No.	Width across flats	Torque (Nm)	Shear bolts	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 511 009	SW 4	7	-	6.7	12	40	25
332 513 009	SW 4	7	■	10.5	16	40	25

No.	Al  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)	Cu  (mm ²)	Cu  (mm ²)
332 511 009	4 - 16	4 - 16	-	4 - 16	4 - 16	-
332 513 009	4 - 10	10 - 70	10 - 70	4 - 10	10 - 70	10 - 70

Screen wire connector brass Al

- For VDE and TGL cables
- Tinned
- With blind hole



No.	Width across flats	Torque (Nm)	Shear bolts	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 513 005	SW 5	10	-	20	11	55	25

No.	Cu  (mm ²)	flat conductor cross section
332 513 005	16 - 50	3 - 13 pieces flat 1 x 5.2 Al



Battery impact wrench

This battery-operated impact wrench is ideal for using to tighten shear bolts. The ergonomic design with a soft grip support is compact, a good weight and has an optimum centre of gravity that guarantees careful work. As the battery can be switched in two directions, working with the battery-operated impact wrench is flexible. The strong gear box ensures that the wrench has a long service life. The battery-operated impact wrench has an electronic system with revolution control as well as clockwise or anti-clockwise rotation.

Technical data:

- Battery pack voltage/capacity: 14,4 V/2 Ah - 2 pieces
- Battery charger
- No. of strokes: 0-2500 1/min
- Idle speed: 0-2200 U/min
- Tool housing: 1/2" SD
- Weight inc. battery: 2.1 kg
- Special tool set:
Allen nut SW 5, SW 6, SW 8
Load -carrying nut SW 10, SW 13, SW 16, SW 19

No.

305 917 001

IN K 19 power screwdriver bit 1/2"



No.	Width across flats (SW)	Length of peak (mm)
305 917 106	6	9
305 917 107	6	19

Brace for mechanical connector

For bracing mechanical connectors.

Properties:

- Infinitely adjustable for mechanical connections with a cross section range of 25 mm² - 240 mm² and a diameter of 14 - 35 mm
- Length 280 mm
- Weight: 400 g
- Insulation to comply with EN/IEC 60900



No.

331 901 900

Plastic cover for SICON

Saves using fillers on the shear spot.



No.	Diameter Ø (mm)	Suitable for	Packing unit
625 229 100	19	332 447 010	6
625 229 110	19	332 592 010 332 595 010 332 595 011 332 614 010	4
625 229 210	15	332 607 010 332 593 010 332 599 010 332 601 010 332 604 010	4
625 229 310	22	332 602 010 332 605 010 332 605 011 332 617 010 332 625 010	4



Storage battery cable cutting tool

Efficient, handy, one-hand operation, no physical stress, for all Cu and Al cables up to 50 mm diameter, for max. Cu 4 x 95 mm² and Al 4 x 185 mm².

Included in delivery:

- Cordless cable cutting tool
- Battery
- Battery charger
- Carrying case

No.	Cuts per battery charge	Charging voltage	Cutting force	Cable diameter max.	Charging time	Weight
		(V AC)	(kN)	max. Ø (mm)	(min.)	(kg)
305 911 001	approx. 50	220 - 240	25	50	approx. 120	2.0

Spare Battery

Properties:

- 50% more process cycles compared with the charging procedure for conventional batteries
- Low power loss due to low internal resistance
- Sparing operation due to prevention of heat build up
- High breaking strength thanks to fibre glass reinforced polyamide housing



No.	Type	Capacity	Output voltage	Weight	Dimensions
		(Ah)	(V DC)	(kg)	(mm)
619 435 008	BAT-20	2	14.4	0.8	125 x 70 x 120

Spare battery charger CAR-01

Properties:

- Increased battery life due to sparing charging procedure
- Battery check by charging process control (LPC)
- No memory effect possible with battery
- Continuous monitoring of the battery charging status by LED
- Battery check and self-test before starting the charging process
- Battery defect indication
- Battery pressure increase protection



No.	Type	Input voltage	Weight	Dimensions
		(V AC)	(kg)	(mm)
305 844 002	CAR-01	220 - 240	0.5	150 x 85 x 75

Cable sheath cutting tool

with depth stop.

- With cutting angle settings 0° - 45° and 90°
- For aluminium and lead-sheathed cables
- For cable diameters to 40 mm
- Weight approx. 1.4 kg

No.	Penetration depth (mm)
300 863 344	1.50
300 863 345	4.00

Spare cutter wheel

with depth stop.

No.	Penetration depth (mm)
610 071 071	1.50
302 161 161	4.00





ISICOMPACT

The design of the new ISICOMPACT offers significant advantages in fitting compared to conventional tap connectors:

- There is no need to strip the tap conductor
- The tap conductors are fitted from the side, so no intricate feeding in from the front
- The shear nut acts as a „built-in torque wrench“ to give the optimal tightening torque
- The spring-loaded pressure plates ensure a constant contact force
- The ISICOMPACT is suitable for all cable types (DIN and TGL)
- The undetachable supporting ribs prevent the contact plates from penetrating into the insulation before the nut is tightened

No.	Number of conductors	Width across flats (SW)	circumscribe circle diameter (mm)
331 896 001	4	13	94 - 114

No.	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)	Cross section of tap conductor (mm ²)
331 896 001	-	-	70 - 185	70 - 150	-	-	70 - 150	6 - 70

ISICOMPACT joint set with tap-off joint AM 130/300 and ISICOMPACT 331 896 001

Main cable: 4 x 70 - 185 mm² solid sector-shaped,
Tap conductor: 4 x 6 - 70 mm².



Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed

No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 111	332 408 111	332 409 111	300	235	130	1,9	Mixing bags	Polystyrene
332 407 112	332 408 112	332 409 112	300	235	130	1,9	Tins	Polystyrene
332 407 113	332 408 113	332 409 113	300	235	130	1,9	Mixing bags	Polypropylene
332 407 114	332 408 114	332 409 114	300	235	130	1,9	Tins	Polypropylene

ISICOMPACT joint set with branching cable joint AM 140/420N and ISICOMPACT 331 896 001

Main cable: 4 x 70 - 185 mm² solid sector-shaped,
Tap conductor: 4 x 6 - 70 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 121	332 408 121	332 409 121	420	350	140	3,7	Mixing bags	Polystyrene
332 407 122	332 408 122	332 409 122	420	350	140	3,7	Tins	Polystyrene
332 407 123	332 408 123	332 409 123	420	350	140	3,7	Mixing bags	Polypropylene
332 407 124	332 408 124	332 409 124	420	350	140	3,7	Tins	Polypropylene

ISICOMPACT joint set with branching cable joint AM 140/420K and ISICOMPACT 331 896 001

Main cable: 4 x 70 - 185 mm² solid sector-shaped,
Tap conductor: 4 x 6 - 70 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 134	332 408 134	332 409 134	420	270	140	2,9	Tins	Polypropylene

Compact tap connectors

Required torque:

at SW 6: 25 Nm,

at SW 5: 12 Nm.

Multi-range compact tap connectors

1) + 70 solid sector-shaped rounded

2) + 95 solid sector-shaped rounded

3) + 150 solid sector-shaped



No.	Number of conductors	Circumscribe circle diameter (mm)	Width across flats SW1/SW2	Matching joint set	Packing unit
330 407 001	4	83	6 / 5	AM 130/300	5
331 894 001	4	95	6 / 5	AM 130/300	5
331 894 006	4	95	6 / 5	AM 130/300	5
331 894 188	4	95	6 / 5	AM 130/300	5
332 241 005	4	110	6 / 6	AM 140/420N	5
330 935 006	4	124	8 / 5	AVM 160/500	5

No.	Al (mm ²)	Al (mm ²)	Al (mm ²)	Al (mm ²)	Cu (mm ²)	Cu (mm ²)	Cu (mm ²)	Cross section of tap conductor (mm ²)	
330 407 001	35 - 50	35 - 50	50 - 70	35 - 50	35	35 - 50	35 - 50	6 - 50	1)
331 894 001	-	-	95 - 150	-	-	-	-	6 - 50	1)
331 894 006	-	-	95 - 150	70 - 120	-	-	70 - 120	6 - 70	2)
331 894 188	-	-	95 - 150	-	-	-	95 - 120	6 - 50	1)
332 241 005	-	-	95 - 150	-	-	-	95 - 120	6 - 120	3)
330 935 006	-	-	185 - 240	185 - 240	-	-	185 - 240	6 - 70	2)

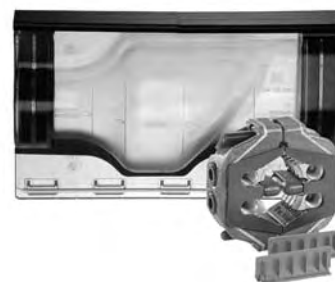
Compact tap connector joint set with tap joint AM 130/300 and compact tap connector 330 407 001

Main cable: 4 x 35 - 70 mm²,

Tap conductor: 4 x 6 - 70 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 011	332 408 011	332 409 011	300	235	130	1,9	Mixing bags	Polystyrene
332 407 012	332 408 012	332 409 012	300	235	130	1,9	Tins	Polystyrene
332 407 013	332 408 013	332 409 013	300	235	130	1,9	Mixing bags	Polypropylene
332 407 014	332 408 014	332 409 014	300	235	130	1,9	Tins	Polypropylene

Compact tap connector joint set with tap joint AM 130/300 and compact tap connector 331 894 006

Main cable: 4 x 70 - 150 mm²,

Tap conductor: 4 x 6 - 70 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 021	332 408 021	332 409 021	300	235	130	1,9	Mixing bags	Polystyrene
332 407 022	332 408 022	332 409 022	300	235	130	1,9	Tins	Polystyrene
332 407 023	332 408 023	332 409 023	300	235	130	1,9	Mixing bags	Polypropylene
332 407 024	332 408 024	332 409 024	300	235	130	1,9	Tins	Polypropylene



Compact tap connector joint set with tap joint AM 140/420K and compact tap connector 330 395 006

Main cable: 4 x 185 - 240 mm²,
Tap conductor: 4 x 6 - 95 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed

No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 051	332 408 051	332 409 051	420	270	140	2,9	Mixing bags	Polystyrene
332 407 052	332 408 052	332 409 052	420	270	140	2,9	Tins	Polystyrene
332 407 053	332 408 053	332 409 053	420	270	140	2,9	Mixing bags	Polypropylene
332 407 054	332 408 054	332 409 054	420	270	140	2,9	Tins	Polypropylene



Compact tap connector joint set with tap joint AM 140/420N and compact tap connector 330 935 006

Main cable: 4 x 185 - 240 mm²,
Tap conductor: 4 x 6 - 95 mm².

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed

No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 031	332 408 031	332 409 031	420	350	140	3,7	Mixing bags	Polystyrene
332 407 032	332 408 032	332 409 032	420	350	140	3,7	Tins	Polystyrene
332 407 033	332 408 033	332 409 033	420	350	140	3,7	Mixing bags	Polypropylene
332 407 034	332 408 034	332 409 034	420	350	140	3,7	Tins	Polypropylene

Compact tap connectors

for Al and Cu four-core cables

(also suitable for Al multi-stranded Al conductors).

1) + 70 solid sector-shaped rounded

2) + 95 solid sector-shaped rounded

No.	Number of conductors	Width across flats SW1/SW2	Circumscribe circle diameter (mm)	Matching joint set	Packing unit
330 407 457	4	6 / 5	83	AM 130/300	5
330 407 248	4	6 / 5	83	AM 130/300	5
330 407 915	4	6 / 5	83	AM 130/300	5
331 395 395	4	6 / 5	96	AVM 160/500	5
330 409 872	4	6 / 5	90	AM 130/300	5
331 415 415	4	6 / 5	102	AM 130/300	5
330 926 012	4	6 / 5	93	AM 130/300	5
331 415 416	4	6 / 5	102	AM 130/300	5
330 926 926	4	6 / 5	93	AM 130/300	5
330 499 400	4	6 / 5	115	AM 140/420N	5
330 499 499	4	6 / 5	115	AM 140/420N	5
330 935 935	4	8 / 5	124	AVM 160/500	5
330 935 002	4	8 / 5	124	AVM 160/500	5



No.	Al (mm²)	Al (mm²)	Al (mm²)	Al (mm²)	Cu (mm²)	Cu (mm²)	Cross section of tap conductor (mm²)	
330 407 457	25 - 35	16 - 25	25 - 35	-	16 - 25	-	6 - 50	1)
330 407 248	50	35	50	35	35	35	6 - 50	1)
330 407 915	-	50	70	50	50	50	6 - 50	1)
331 395 395	-	50	70	50	50	50	6 - 70	2)
330 409 872	-	70	95	70	70	70	6 - 50	1)
331 415 415	-	70	95	70	70	70	6 - 70	2)
330 926 012	-	95	120	95	95	95	6 - 50	1)
331 415 416	-	95	120	95	95	95	6 - 70	2)
330 926 926	-	120	150	120	120	120	6 - 50	1)
330 499 400	-	120	150	120	120	120	6 - 70	2)
330 499 499	-	150	185	150	150	150	6 - 70	2)
330 935 935	-	185	240	185	185	185	6 - 70	2)
330 935 002	-	-	-	240	-	240	6 - 70	2)



Compact tap connectors

only for Cu stranded sector-shaped and Al solid sector-shaped four-core cables.

- 1) + 70 solid sector-shaped rounded
- 2) + 95 solid sector-shaped rounded
- 3) + 150 solid sector-shaped

No.	Number of conductors	Width across flats SW1/SW2	Circumscribe circle diameter (mm)	Matching joint set	Packing unit
331 894 200	4	6 / 5	95	AM 130/300	5
332 241 001	4	6 / 6	110	AM 140/420N AM 140/420K	5
332 089 089	4	8 / 8	131	AVM 160/500	5
331 894 202	4	6 / 5	95	AM 130/300	5
331 894 007	4	6 / 5	95	AM 130/300	5
332 241 003	4	6 / 6	110	AM 140/420N AM 140/420K	5
331 894 154	4	6 / 5	95	AM 130/300	5
332 241 004	4	6 / 6	110	AM 140/420N AM 140/420K	5

No.	Al (mm ²)	Cu (mm ²)	Cross section of tap conductor (mm ²)	
331 894 200	95	70	6 - 50	1)
332 241 001	95	70	6 - 120	3)
332 089 089	150	-	50 - 150	-
331 894 202	150	120	6 - 50	1)
331 894 007	150	120	6 - 70	2)
332 241 003	150	120	6 - 120	3)
331 894 154	185	-	6 - 50	1)
332 241 004	185	-	6 - 120	3)

Compact tap connectors

for three-and-a-half-core Cu and Al cables.

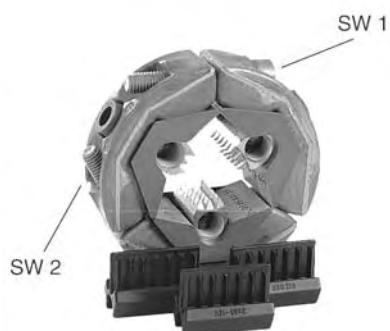
1) + 70 solid sector-shaped rounded

2) + 95 solid sector-shaped rounded

No.	Number of conductors	Width across flats SW1/SW2	Circumscribe circle diameter (mm)	Matching joint set	Packing unit
331 075 559	3 1/2	6 / 5	83	AM 130/300	5
330 876 340	3 1/2	6 / 5	90	AM 130/300	5
330 923 923	3 1/2	6 / 5	115	AM 140/420N	5



No.	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cross section of tap conductor (mm²)
331 075 559	3 x 50 / 25	3 x 50 / 25	3 x 50 / 25	3 x 50 / 25	6 - 50 ¹⁾
330 876 340	3 x 70 / 35	3 x 70 / 35	3 x 70 / 35	3 x 70 / 35	6 - 50 ¹⁾
330 923 923	3 x 150 / 70	3 x 150 / 70	3 x 150 / 70	3 x 150 / 70	6 - 70 ²⁾



Compact tap connectors

for three-core Cu and Al cables.

1) + 70 solid sector-shaped rounded

2) + 95 solid sector-shaped rounded

No.	Number of conductors	Width across flats SW1/SW2	Circumscribe circle diameter (mm)	Matching joint set	Packing unit
330 391 003	3	6 / 5	87	AM 140/420N AM 140/420K	5
330 391 004	3	6 / 5	87	AM 140/420N AM 140/420K	5
330 391 001	3	6 / 5	87	AM 140/420N AM 140/420K	5
330 391 987	3	6 / 5	87	AM 140/420N AM 140/420K	5
330 391 986	3	6 / 5	87	AM 140/420N AM 140/420K	5
331 013 871	3	8 / 5	109	AM 140/420N AM 140/420K	5
332 124 168	3	8 / 8	122	AVM 160/500	5
331 013 013	3	8 / 5	109	AM 140/420N AM 140/420K	5
331 013 014	3	8 / 5	109	AM 140/420N AM 140/420K	5

No.	Al  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)	Cu  (mm ²)	Cross section of tap conductor (mm ²)
330 391 003	50	50	50	50	50	16 - 50 ¹⁾
330 391 004	70	70	70	70	70	16 - 50 ¹⁾
330 391 001	95	95	95	95	95	16 - 50 ¹⁾
330 391 987	120	120	120	120	120	16 - 50 ¹⁾
330 391 986	-	150	150	-	150	16 - 50 ¹⁾
331 013 871	150	150	150	150	150	6 - 70 ²⁾
332 124 168	-	150	-	-	-	50 - 150 -
331 013 013	-	185	185	-	185	6 - 70 ²⁾
331 013 014	-	240	240	-	240	6 - 70 ²⁾

Tap-off joint boxes

Two-piece halogen-free joint box housing with bulging shape to take compact tap connectors or cable connectors.

Tap cables are arranged parallel to the main cable.

Included in the delivery:

Shaped shells, seals, cover, auxiliary materials, assembly instructions, casting resin.

AM 130/300

Main cable 4 x 16 - 185 mm², max. Ø 50 mm,
Tap conductor 4 x 16 - 70 mm², max. Ø 32 mm.

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 530	332 408 530	332 409 530	300	235	130	1,9	Mixing bags	Polystyrene
332 407 531	332 408 531	332 409 531	300	235	130	1,9	Tins	Polystyrene
332 407 532	332 408 532	332 409 532	300	235	130	1,9	Mixing bags	Polypropylene
332 407 533	332 408 533	332 409 533	300	235	130	1,9	Tins	Polypropylene

AM 140/420N

Main cable 4 x 50 - 240 mm², max. Ø 60 mm,
Tap conductor 4 x 16 - 120 mm², max. Ø 45 mm.

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 540	332 408 540	332 409 540	420	350	140	3,7	Mixing bags	Polystyrene
332 407 541	332 408 541	332 409 541	420	350	140	3,7	Tins	Polystyrene
332 407 542	332 408 542	332 409 542	420	350	140	3,7	Mixing bags	Polypropylene
332 407 543	332 408 543	332 409 543	420	350	140	3,7	Tins	Polypropylene



AM 140/420K

Main cable 4 x 50 - 240 mm², max. Ø 60 mm,
Tap conductor 4 x 16 - 95 mm², max. Ø 45 mm.

Three double cast resin components are available:

- KP-PUR 2000: filled (1.4 g/cm³)
- KP-PUR 762: unfilled (1.2 g/cm³)
- KP-FILL BRH: no markings and can be removed

No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(mm)	(l)		
332 407 590	332 408 590	332 409 590	420	270	140	2,9	Mixing bags	Polystyrene
332 407 591	332 408 591	332 409 591	420	270	140	2,9	Tins	Polystyrene
332 407 592	332 408 592	332 409 592	420	270	140	2,9	Mixing bags	Polypropylene
332 407 593	332 408 593	332 409 593	420	270	140	2,9	Tins	Polypropylene

Cable and tap-off joint boxes

Two-piece halogen-free joint box housing with bulging shape to take compact tap connectors or cable connectors.

Tap cables are arranged parallel to the main cable.

Included in the delivery:

Shaped shells, seals, cover, auxiliary materials, assembly instructions, casting resin.

AVM 58/220

Main cable 4 x 1,5 - 10 mm², max. Ø 22 mm,

Tap conductor 4 x 1,5 - 10 mm², max. Ø 21 mm.



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
			(mm)	(mm)	(mm)	(l)		
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 510	332 408 510	332 409 510	220	170	58	0,5	Mixing bags	Polystyrene

AVM 75/300

Main cable 4 x 16 - 25 mm², max. Ø 29 mm,

Tap conductor 4 x 6 - 16 mm², max. Ø 22 mm.



No.	No.	No.	External length	Internal length	Joint body diameter	Volumes	Cast resin container	Shell material
			(mm)	(mm)	(mm)	(l)		
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 520	332 408 520	332 409 520	300	225	75	1,1	Mixing bags	Polystyrene



AVM 95/400

Main cable 4 x 16 - 70 mm², max. Ø 35 mm,
Tap conductor 4 x 6 - 35 mm², max. Ø 25 mm.

No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 560	332 408 560	332 409 560	400	350	95	2,35	Mixing bags	Polystyrene
332 407 561	332 408 561	332 409 561	400	350	95	2,35	Tins	Polystyrene
332 407 562	332 408 562	332 409 562	400	350	95	2,35	Mixing bags	Polypropylene
332 407 563	332 408 563	332 409 563	400	350	95	2,35	Tins	Polypropylene



AVM 160/500

Main cable 4 x 70 - 240 mm², max. Ø 65 mm,
Tap conductor 4 x 35 - 185 mm², max. Ø 50 mm.

No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 550	332 408 550	332 409 550	500	440	160	6,6	Mixing bags	Polystyrene
332 407 551	332 408 551	332 409 551	500	440	160	6,6	Tins	Polystyrene
332 407 552	332 408 552	332 409 552	500	440	160	6,6	Mixing bags	Polypropylene
332 407 553	332 408 553	332 409 553	500	440	160	6,6	Tins	Polypropylene



AVM 180/500

Main cable 4 x 50 - 240 mm², max. Ø 85 mm,
Tap conductor 4 x 16 - 185 mm², max. Ø 50 mm.

No.	No.	No.	External length (mm)	Internal length (mm)	Joint body diameter (mm)	Volumes (l)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 580	332 408 580	332 409 580	500	440	180	9,3	Mixing bags	Polystyrene
332 407 581	332 408 581	332 409 581	500	440	180	9,3	Tins	Polystyrene

AVM 112/500

Main cable 4 x 35 - 150 mm², max. Ø 50 mm,
Tap conductor 4 x 16 - 50 mm², max. Ø 30 mm.



No.	External length	Internal length	Volumes	Joint body diameter	Cast resin container	Shell material
KP-PUR 2000	(mm)	(mm)	(l)	(mm)		
332 407 573	500	445	4,1	112	Tins	Polypropylene

AVM 125/610

Main cable 4 x 95 - 185 mm², max. Ø 58 mm,
Tap conductor 4 x 25 - 70 mm², max. Ø 35 mm.



No.	No.	No.	External length	Internal length	Volumes	Joint body diameter	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(l)	(mm)		
332 407 600	332 408 600	332 409 600	610	540	6,1	125	Mixing bags	Polystyrene
332 407 601	332 408 601	332 409 601	610	540	6,1	125	Tins	Polystyrene

AVM SK 150/50

Main cable 4 x 16 - 185 mm², max. Ø 50 mm,
Tap conductor 4 x 16 - 50 mm², max. Ø 30 mm.



No.	No.	No.	External length	Internal length	Volumes	Joint body diameter	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH	(mm)	(mm)	(l)	(mm)		
332 407 701	332 408 701	332 409 701	344	278	2,7	150	Mixing bags	Polypropylene
332 407 702	332 408 702	332 409 702	344	278	2,7	150	Tins	Polypropylene



AVM SK 150/95

Main cable 4 x 16 - 185 mm², max. Ø 50 mm,
Tap conductor 4 x 16 - 95 mm², max. Ø 40 mm.

No.	No.	No.	External length (mm)	Internal length (mm)	Volumes (l)	Joint body diameter (mm)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 711	332 408 711	332 409 711	426	360	3,2	160	Mixing bags	Polypropylene
332 407 712	332 408 712	332 409 712	426	360	3,2	160	Tins	Polypropylene



AVM 185/ZE

Main cable 4 x 16 - 185 mm², max. Ø 60 mm,
Tap conductor 4 x 16 - 120 mm², max. Ø 45 mm.

No.	No.	No.	External length (mm)	Internal length (mm)	Volumes (l)	Joint body diameter (mm)	Cast resin container	Shell material
KP-PUR 2000	KP-PUR 762	KP-FILL BRH						
332 407 721	332 408 721	332 409 721	410	360	3,7	140	Mixing bags	Polypropylene
332 407 722	332 408 722	332 409 722	410	360	3,7	140	Tins	Polypropylene

Joint housing without cast resin

No.	Joint housing	Shell material
332 407 901	SK 150/50	Polypropylene
332 407 902	SK 150/95	Polypropylene
332 407 903	AV 185/ZE	Polypropylene

Cast resin KP-PUR 2000

two component casting resin, filled (1.4 g/cm^3).



No.	Volumes (l)	Cast resin container
332 407 915	0.25	Tins
332 407 911	1.2	Tins
332 407 912	1.2	Mixing bags
332 407 913	2.1	Tins
332 407 914	2.1	Mixing bags

Cast resin KP-PUR 762

two component casting resin, unfilled (1.2 g/cm^3).



No.	Volumes (l)	Cast resin container
332 408 911	1.2	Tins
332 408 912	1.2	Mixing bags
332 408 913	2.1	Tins
332 408 914	2.1	Mixing bags

Cast resin KP-FILL BRH

two component casting resin, not marked and removable.



No.	Volumes (l)	Cast resin container
332 409 911	1.2	Tins
332 409 912	1.2	Mixing bags
332 409 913	2.1	Tins
332 409 914	2.1	Mixing bags

Solderless earthing attachment



No.	Type
332 407 998	Type 2 with 35 mm earth wire ² , 650 mm
332 407 999	Type 2A with 35 mm earth wire ² , 650 mm and 16 mm ² , 750 mm

Insulated tap connector

for insulated copper conductors. The contact edges, embedded in an insulating casing, cut through the insulation of main and tap conductors.

No.	Screw	Width (mm)	Height (mm)	Packing unit
332 162 162	M5	23	20	50



No.	Cu	Cross section of tap conductor
	(mm ²)	(mm ²)
332 162 162	1,5 - 10	1,5 - 10

Insulated tap connector

suitable for aluminium and copper main and tap-off conductors.

No.	Screw	Shear head	Width (mm)	Height (mm)	Packing unit
332 433 002	M6	-	26	28	20



No.	Al	Al	Cu	Cu	Cross section of tap conductor
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 433 002	1,5 - 16	1,5 - 16	1,5 - 16	1,5 - 16	1,5 - 16

Tap connector Al

for Al and Cu cables.

No.	Screw	Width (mm)	Height (mm)	Length (mm)	Packing unit
332 300 002	M12	63	66	36	10



No.	Al	Al	Cu	Cross section of tap conductor
	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 300 002	185 - 300	150 - 300	150 - 300	35 - 185 SM 50 - 240 SE



Tap connectors brass

for Al and Cu cables.

No.	Screw	Width (mm)	Height (mm)	Length (mm)	Packing unit
330 837 837	M8	36	35	18	50
332 054 054	M12	26	35	47	25

No.	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cross section of tap conductor (mm²)
330 837 837	50 - 120	50 - 95	50 - 95	16 - 35 - 50 SE
332 054 054	70 - 150	50 - 120	50 - 120	50-120/70-150 SE



1 Universal tap connector brass

for Al and Cu cables.

No.	Screw	Width (mm)	Height (mm)	Length (mm)	Number of tap covers	Packing unit	
330 433 433	M8	32	35	17.5	1	50	1
330 434 434	M8	39	32	18	1	50	1
330 435 435	M8	41	43	18	1	50	1
330 437 437	M8	41	43	37	2	20	2



No.	Al  (mm²)	Al  (mm²)	Cu  (mm²)	Cu  (mm²)	Cross section of tap conductor (mm²)
330 433 433	16 - 95	16 - 95	16 - 95	16 - 95	4 - 25
330 434 434	50 - 120	50 - 120	50 - 120	50 - 120	6 - 50
330 435 435	50 - 185	50 - 185	50 - 185	50 - 185	6 - 50
330 437 437	50 - 185	50 - 185	50 - 185	50 - 185	6 - 50

Tap connector brass

for Al cables.

No.	Screw	Width (mm)	Height (mm)	Length (mm)	Number of tap covers	Packing unit
330 448 448	M8	45	42	20	1	25



No.	Al	Cross section of tap conductor
	(mm ²)	(mm ²)
330 448 448	70 - 150	6 - 70

Tap connector brass

for paper-insulated and plastic-insulated copper and aluminium conductors.

*) for stranded circular and solid circular cable.

No.	Screw	Width across flats 1 SW1	Width (mm)	Height (mm)	Length (mm)	Packing unit
331 870 870	M10	5	33	43	31	50



No.	Al	Cu	Cross section of tap conductor
	(mm ²)	(mm ²)	(mm ²)
331 870 870	16 - 150	16 - 150	2,5 - 50

Claw type tap connectors brass

for Al and Cu cables.

No.	Screw	Width (mm)	Height (mm)	Length (mm)	Packing unit
330 993 993	M6	24	14	14	100



No.	Al	Al	Cu	Cu	Cross section of tap conductor
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
330 993 993	6 - 10	6 - 10	6 - 10	6 - 10	4 - 10



Tap connector for neutral conductor connections brass

for wave form concentric neutral conductor used in domestic service boxes.

No.	Cross section of main conductor	Cross section of tap conductor	Tap plate mounting hole	Screw	Packing unit	Width	Height	Length
	(mm ²)	(mm ²)	Ø (mm)			(mm)	(mm)	(mm)
330 847 847	16 - 70	16 - 70	13	M8	20	30	39	66



Tap connector for neutral conductor connections brass

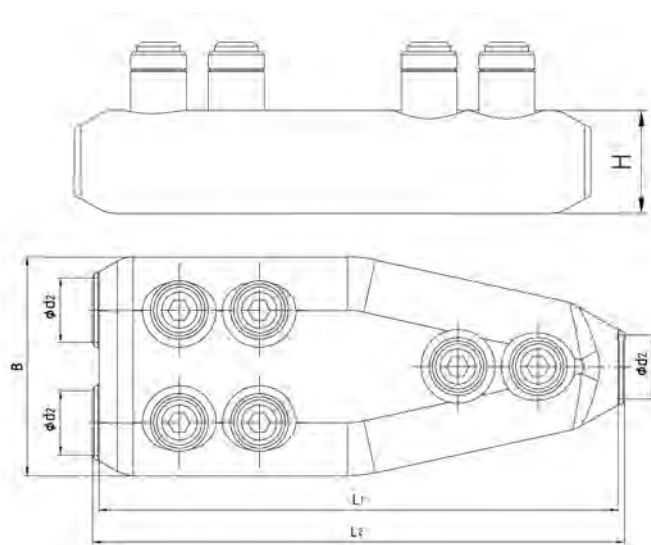
for wave form concentric neutral conductor used in domestic service boxes.

No.	Cross section of main conductor	Cross section of tap conductor	Screw	Packing unit	Width	Height	Length
	(mm ²)	(mm ²)			(mm)	(mm)	(mm)
331 971 971	16 - 70	16 - 70	M8	20	30	39	50

SICON bolted connectors with branch

The special design of SICON bolts means that there are no fixed predetermined break points in the thread. Instead the bolt always breaks reliably at the surface of the clamp body.

- Nothing protrudes from the clamp body
- Full use of the thread load rating for any conductor cross section
- No special tools needed
- Smooth breakage of the shear bolt simplifies tightening



No.	Number of bolts	Width across flats	Dimension B	Diameter d2	Dimension H	Dimension L ₁	Dimension L ₂	Packing unit	
			b (mm)	Ø d2 (mm)	H (mm)	L ₁ (mm)	L ₂ (mm)		
332 447 010	6	SW 6	68	20	33	162	166	12	

No.	Al	Al	Al	Al	Al	Cu	Cu	Cu	Cu
	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)	(mm ²)
332 447 010	50 - 240	50 - 185	50 - 240	50 - 185	50 - 150	50 - 240	50 - 185	50 - 240	50 - 150

Screen wire connector brass

for screen wires or concentric conductors up to 70 mm².



No.	Width across flats	Torque (Nm)	Shear bolts	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 511 009	SW 4	7	-	6.7	12	40	25
332 513 009	SW 4	7	■	10.5	16	40	25

No.	Al  (mm ²)	Al  (mm ²)	Al  (mm ²)	Cu  (mm ²)	Cu  (mm ²)	Cu  (mm ²)
332 511 009	4 - 16	4 - 16	-	4 - 16	4 - 16	-
332 513 009	4 - 10	10 - 70	10 - 70	4 - 10	10 - 70	10 - 70

Screen wire connector brass Al

- For VDE and TGL cables
- Tinned
- With blind hole



No.	Width across flats	Torque (Nm)	Shear bolts	Diameter D1 Ø d1 (mm)	Diameter D2 Ø d2 (mm)	Dimension L L (mm)	Packing unit
332 513 005	SW 5	10	-	20	11	55	25

No.	Cu  (mm ²)	flat conductor cross section
332 513 005	16 - 50	3 - 13 pieces flat 1 x 5.2 Al

Battery impact wrench

This battery-operated impact wrench is ideal for using to tighten shear bolts. The ergonomic design with a soft grip support is compact, a good weight and has an optimum centre of gravity that guarantees careful work. As the battery can be switched in two directions, working with the battery-operated impact wrench is flexible. The strong gear box ensures that the wrench has a long service life. The battery-operated impact wrench has an electronic system with revolution control as well as clockwise or anti-clockwise rotation.



Technical data:

- Battery pack voltage/capacity: 14,4 V/2 Ah - 2 pieces
- Battery charger
- No. of strokes: 0-2500 1/min
- Idle speed: 0-2200 U/min
- Tool housing: 1/2" SD
- Weight inc. battery: 2.1 kg
- Special tool set:
Allen nut SW 5, SW 6, SW 8
Load -carrying nut SW 10, SW 13, SW 16, SW 19

No.

305 917 001

IN K 19 power screwdriver bit 1/2"

No.	Width across flats (SW)	Length of peak (mm)
305 917 106	6	9
305 917 107	6	19





Brace for mechanical connector

For bracing mechanical connectors.

Properties:

- Infinitely adjustable for mechanical connections with a cross section range of 25 mm² - 240 mm² and a diameter of 14 - 35 mm
- Length 280 mm
- Weight: 400 g
- Insulation to comply with EN/IEC 60900

No.

331 901 900



Plastic cover for SICON

Saves using fillers on the shear spot.

No.	Diameter Ø (mm)	Suitable for	Packing unit
625 229 100	19	332 447 010	6
625 229 110	19	332 592 010 332 595 010 332 595 011 332 614 010	4
625 229 210	15	332 607 010 332 593 010 332 599 010 332 601 010 332 604 010	4
625 229 310	22	332 602 010 332 605 010 332 605 011 332 617 010 332 625 010	4



protective cover for live working (lw)

for compact tap connector assembly.

No.

300 882 001

Storage battery cable cutting tool

Efficient, handy, one-hand operation, no physical stress, for all Cu and Al cables up to 50 mm diameter, for max. Cu 4 x 95 mm² and Al 4 x 185 mm².

Included in delivery:

- Cordless cable cutting tool
- Battery
- Battery charger
- Carrying case



No.	Cuts per battery charge	Charging voltage	Cutting force	Cable diameter max.	Charging time	Weight
		(V AC)	(kN)	max. Ø (mm)	(min.)	(kg)
305 911 001	approx. 50	220 - 240	25	50	approx. 120	2.0

Spare Battery

Properties:

- 50% more process cycles compared with the charging procedure for conventional batteries
- Low power loss due to low internal resistance
- Sparing operation due to prevention of heat build up
- High breaking strength thanks to fibre glass reinforced polyamide housing



No.	Type	Capacity	Output voltage	Weight	Dimensions
		(Ah)	(V DC)	(kg)	(mm)
619 435 008	BAT-20	2	14.4	0.8	125 x 70 x 120

Spare battery charger CAR-01

Properties:

- Increased battery life due to sparing charging procedure
- Battery check by charging process control (LPC)
- No memory effect possible with battery
- Continuous monitoring of the battery charging status by LED
- Battery check and self-test before starting the charging process
- Battery defect indication
- Battery pressure increase protection



No.	Type	Input voltage	Weight	Dimensions
		(V AC)	(kg)	(mm)
305 844 002	CAR-01	220 - 240	0.5	150 x 85 x 75



Cable sheath cutting tool

with depth stop.

- With cutting angle settings 0° - 45° and 90°
- For aluminium and lead-sheathed cables
- For cable diameters to 40 mm
- Weight approx. 1.4 kg

No.	Penetration depth (mm)
300 863 344	1.50
300 863 345	4.00



Spare cutter wheel

with depth stop.

No.	Penetration depth (mm)
610 071 071	1.50
302 161 161	4.00



Assembly tools case

Characteristics:

- Hard case, double-walled, with foam lining
- Dimensions: 410 x 120 x 320 mm
- Equipped with insulated tools to EN 60900, e.g. for fitting screw clamp rings for domestic connections

Contents:

- 1 x 619 977 002 Stripping tool
- 1 x 619 977 003 Reversible ratchet wrench
- 1 x 619 977 004 Twelve-side insert
- 1 x 619 977 005 Extension
- 2 x 619 977 006 Spreader wedge
- 1 x 619 977 007 Insulated soft-face hammer
- 1 x 619 977 008 Insulated cable cutting tool
- 1 x 619 977 009 Insulated flat-nose pliers

No.
619 977 001

Insulated stripping tool

Characteristics:

- To DIN EN 60900
- For cables with diameters 26 - 52 mm
- Suitable for live working up to 1000 V AC / 1500 V DC to BGI 862
- Equipment: circular / longitudinal cut 2.0 / 2.5 mm, without metal core



No.

619 977 002

Reversible ratchet wrench 3/8", square, for live working

- With auto-locking
- To DIN EN 60900
- Suitable for live working up to 1000 V AC to BGI 862



No.

619 977 003

Twelve-side insert 3/8" square

- Insulated to EN 60900
- To DIN EN 60900
- Suitable for live working up to 1000 V AC to BGI 862



No.	Width across flats (SW)	Length (mm)
619 977 004	13	70

Extension 3/8", square, for live working

- For reversible ratchet spanner
- With auto-locking
- To DIN EN 60900
- Suitable for live working up to 1000 V AC to BGI 862



No.	Length (mm)
619 977 005	130



Spreader wedges

- Spreader wedge of insulating composite material
- Oval shape
- Without sharp edges
- Long shape with insulating handle
- For live working (lw) up to 1000 V AC
- Also usable for lw to BGI 862

No.	Length (mm)	Width (mm)	Height (mm)
619 977 006	200	25	10



Insulated soft-face hammer

- To DIN EN 60900
- Or live working (lw) up to 1000 V AC to BGI 862

No.	Length (mm)	Length of impact device (mm)	Weight (g)
619 977 007	300	115	770



Insulated cable cutting tool

- To DIN EN 60900
- For live working (lw) up to 1000 V AC to BGI 862
- With part-insulated working head

No.	Conductor cross section (mm ²)	Length (mm)
619 977 008	16 mm ² Cu / up to 70 mm ² Al sector-shaped	185



Insulated flat-nose pliers

- With ceramic cutting edges for max. 10²Cu fine stranded
- For live working (lw) up to 1000 V AC to IEC 60900
- Also usable for lw to BGI 862

No.
619 977 009

Aligning Tool

- For solid sector-shaped conductors 50 - 150 mm²
- For live working (lw) 1000 V AC
- Also usable for lw to BGI 862

No.	Connection	Conductor cross section (mm ²)	Length (mm)
331 875 875	3/8"	95-150 SE	80
331 901 901	3/8"	185-240 SE	-



Screwdriver 3/8"

No.	Width across flats (SW)	Length (mm)
622 770 001	6	85
622 770 002	8	85



T-screwdriver

No.	Width across flats (SW)	Length (mm)
619 970 001	4	140
619 975 001	6	200
619 975 002	6	120
619 976 001	5	200
619 976 002	5	120



Ratchet wrench, 3/8"

No.	Length (mm)
619 978 978	200





Extension 3/8"

No.	Length
	(mm)
619 980 980	250

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300 882 001	78	331 013 014	62	331 894 188	56	332 407 012	57
302 028 026	39	331 013 871	62	331 894 200	60	332 407 013	57
302 028 027	39	331 075 559	61	331 894 202	60	332 407 014	57
302 028 029	39	331 345 001	26	331 896 001	54	332 407 021	57
302 028 030	39	331 345 002	26	331 901 900	41, 51, 78	332 407 022	57
302 028 031	39	331 346 001	27	331 901 901	83	332 407 023	57
302 028 032	39	331 346 002	27	331 914 914	30	332 407 024	57
302 028 034	39	331 346 003	27	331 914 916	30	332 407 031	58
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305 911 001	42, 52, 79	331 347 002	28	331 971 971	74	332 407 034	58
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330 311 311	16	331 415 415	59	332 028 028	22	332 407 054	58
330 311 980	16	331 415 416	59	332 054 054	72	332 407 111	54
330 312 971	16	331 472 472	20	332 082 001	32	332 407 112	54
330 313 313	16	331 575 580	21	332 082 082	32	332 407 113	54
330 368 368	15	331 575 581	21	332 089 089	60	332 407 114	54
330 369 369	15	331 584 584	21	332 109 109	22	332 407 121	55
330 379 379	15	331 655 655	21	332 110 001	38	332 407 122	55
330 379 875	15	331 659 659	18	332 124 168	62	332 407 123	55
330 380 380	15	331 660 660	18	332 127 127	37	332 407 124	55
330 381 951	15	331 744 002	33	332 142 001	24	332 407 134	55
330 391 001	62	331 744 744	33	332 142 081	24	332 407 510	65
330 391 003	62	331 744 748	33	332 142 142	24	332 407 520	65
330 391 004	62	331 745 001	26	332 147 147	47	332 407 530	63
330 391 986	62	331 745 002	26	332 148 148	46	332 407 531	63
330 391 987	62	331 745 003	26	332 162 162	71	332 407 532	63
330 407 001	56	331 746 002	27	332 212 001	44	332 407 533	63
330 407 248	59	331 746 003	27	332 212 212	44	332 407 540	63
330 407 457	59	331 746 004	27	332 213 001	45	332 407 541	63
330 407 915	59	331 746 006	27	332 213 002	44	332 407 542	63
330 409 872	59	331 747 001	28	332 213 213	44	332 407 543	63
330 433 433	72	331 747 002	28	332 241 001	60	332 407 550	66
330 434 434	72	331 747 003	28	332 241 003	60	332 407 551	66
330 435 435	72	331 747 004	28	332 241 004	60	332 407 552	66
330 437 437	72	331 749 001	29	332 241 005	56	332 407 553	66
330 448 448	73	331 749 002	29	332 300 002	71	332 407 560	66
330 499 400	59	331 751 751	23	332 312 003	44	332 407 561	66
330 499 499	59	331 820 182	23	332 312 004	44	332 407 562	66
330 837 837	72	331 820 820	23	332 340 001	32, 33	332 407 563	66
330 847 847	74	331 847 847	17	332 340 002	34	332 407 573	67
330 876 340	61	331 850 850	47	332 346 001	33	332 407 580	66
330 923 923	61	331 852 001	35	332 369 001	30	332 407 581	66
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332 407 911	69	332 408 592	64	332 409 553	66	550 740 008	17
332 407 912	69	332 408 593	64	332 409 560	66	550 740 740	17
332 407 913	69	332 408 600	67	332 409 561	66	550 741 003	19
332 407 914	69	332 408 601	67	332 409 562	66	552 999 001	17
332 407 915	69	332 408 701	67	332 409 563	66	552 999 002	17
332 407 998	70	332 408 702	67	332 409 580	66		
332 407 999	70	332 408 711	68	332 409 581	66		6
332 408 011	57	332 408 712	68	332 409 590	64	601 375 375	17
332 408 012	57	332 408 721	68	332 409 591	64	610 071 071	43, 53, 80
332 408 013	57	332 408 722	68	332 409 592	64	619 099 007	38
332 408 014	57	332 408 911	69	332 409 593	64	619 435 008	42, 52, 79
332 408 021	57	332 408 912	69	332 409 600	67	619 970 001	83
332 408 022	57	332 408 913	69	332 409 601	67	619 975 001	83
332 408 023	57	332 408 914	69	332 409 701	67	619 975 002	83
332 408 024	57	332 409 001	45	332 409 702	67	619 976 001	83
332 408 031	58	332 409 003	45	332 409 711	68	619 976 002	83
332 408 032	58	332 409 011	57	332 409 712	68	619 977 001	80
332 408 033	58	332 409 012	57	332 409 721	68	619 977 002	81
332 408 034	58	332 409 013	57	332 409 722	68	619 977 003	81
332 408 051	58	332 409 014	57	332 409 911	70	619 977 004	81
332 408 052	58	332 409 021	57	332 409 912	70	619 977 005	81
332 408 053	58	332 409 022	57	332 409 913	70	619 977 006	82
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332 408 114	54	332 409 033	58	332 436 003	36	619 980 980	84
332 408 121	55	332 409 034	58	332 441 001	44	622 770 001	83
332 408 122	55	332 409 051	58	332 445 001	36	622 770 002	83
332 408 123	55	332 409 052	58	332 447 010	75	623 409 001	37
332 408 124	55	332 409 053	58	332 511 009	49, 76	624 120 002	38
332 408 134	55	332 409 054	58	332 513 005	49, 76	625 097 002	34
332 408 510	65	332 409 111	54	332 513 009	49, 76	625 097 003	34
332 408 520	65	332 409 112	54	332 592 010	48	625 229 100	41, 51, 78
332 408 530	63	332 409 113	54	332 593 010	48	625 229 110	41, 51, 78
332 408 531	63	332 409 114	54	332 595 010	14	625 229 210	41, 51, 78
332 408 532	63	332 409 121	55	332 595 011	14	625 229 310	41, 51, 78
332 408 533	63	332 409 122	55	332 599 010	14		
332 408 540	63	332 409 123	55	332 601 010	48		
332 408 541	63	332 409 124	55	332 602 010	48		