

temperature maintenance of pipework and vessels in safe or hazardous locations



Copper Buswires

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature
- Can be cut to length with no wastage
- Will not overheat or burnout, even when overlapped
- Approved for use in non-hazardous, hazardous and corrosive environments
- Full range of controls and accessories
- Available for 110 120 and 220 277VAC

FEATURES

FREEZSTOP PLUS is an industrial grade, self-regulating heating tape that can be used freeze protection or temperature maintenance to 110°C.

It can be cut to length on site and exact piping lengths can be matched without any complicated design considerations.

FREEZSTOP PLUS is approved for use in non-hazardous, hazardous and corrosive environments to world wide standards.

Its self-regulating characteristics improve safety and reliability. FREEZSTOP PLUS will not overheat or burnout, even when overlapped upon itself.

The installation of FREEZSTOP PLUS heating tape is quick and simple and requires no special skills or tools. Termination, splicing and power connection components are all provided in convenient kits.

OPTIONS

FSP(w) .. C Tinned copper braid for non-hazardous areas, hazardous areas or where traced equipment does not provide an effective earth path, eg. plastic pipework
 FSP(w) .. CT Thermoplastic outerjacket over tinned copper braid provides additional protection.
 FSP(w) .. CF Fluoropolymer outerjacket over tinned copper braid provides protection where

may be present.

ibemo Kazakhstan Ltd.

 17 & 31W/m = 1.1mm²

 45 & 60W/m = 1.81mm²

 Semi-conductive self-limiting matrix

 Insulation

 Insulation

 Tinned copper braid

 Optional outerjacket



Tel. +7 (71133) – 93077 Fax +7 (71133) – 93074 E-Mail: info-kz@ibemo.de



ӨНЕРКӘСІП ЖӘНЕ ЭЛЕКТР МАТЕРИАЛДАРДЫН ЖАБДЫҚТАУШЫСЫ ПОСТАВІЦИК ИНДУСТРИАЛЬНОГО И ЭЛЕКТРИЧЕСКОГО ОБОРУДОВАНИЯ И МАТЕРИАЛОВ SUPPLIER OF INDUSTRIAL & ELECTRICAL EQUIPMENT and MATERIALS

corrosive chemical solutions or vapours

SPECIFICATION

MAXIMUI	M TEMPERATL	JRE	110	°C (230°F)
MAX. PEI de-energi	RMISSIBLE TE	MPERAT	URE 135 [°]	°C (275°F)
MINIMUN TEMPER	I INSTALLATIC ATURE	DN	–30 (CENELEC –2	°C (–22°F))°C, –4°F)
TEMPER. CLASSIF			up to 45W/m 1 60W/m 1	⁻4 (135°C) ⁻3 (200°C)
POWER	SUPPLY	110	– 120VAC, 220	– 277VAC
	M RESISTANCI TECTIVE BRAIL		18.2	2 Ohm/km
WEIGHT	S & DIMENSIO	NS		
Туре	Nom. Dims.	Weight	Min. Bending	Gland

Ref	(mm)	kg/100m	radius	Size
FSP	9.9 x 3.3	7.1	20mm	M20
FSP C	10.8 x 4.1	10.4	25mm	M20
FSP C*	12.0 x 5.3	13.9	30mm	M20
FSPw	12.4 x 3.4	9.7	20mm	M20
FSPw C	13.3 x 4.3	16.6	25mm	M20
FSPw C*	14.6 x 5.6	17.1	30mm	M25

* Denotes (T)hermoplastic, or (F)luoropolymer outerjacket

APPROVAL DETAILS

Testing Authority		Certificate No.	Standard	
CENELEC	(£x	SCS Ex 94D3079	EN60079-0/EN60079-7	
ATEX	(Ex)	Sira 02ATEX3071	EN60079-0/EN60079-7 IEC62086	
IEC	IEC	Sira 02Y3061	CEI IEC62086 & IEC60079-7	
FM	FM APPROVED	J.I.3YA0.AX (3770)	ANSI/IEEE Std 515	
VDE	DYE	114665	DIN VDE 0254	
CSA	(214197-1295278	C22.2 No. 130.1 C22.2 No. 130.2 C22.2 No. 138	
Lloyds Register	Hoyds	02/00062	EN60079-0/EN60079-7 IEEE Std 515	

Further approvals are available on request.

ORDERING INFORMATION

Example	45FSPw2-CF
Output 45W/m at 10°C FREEZSTOP PLUS Wide version (45 and 60W/m only) Supply Voltage 220 - 277V AC Tinned Copper Braid	
Fluoropolymer Outer jacket	

ACCESSORIES

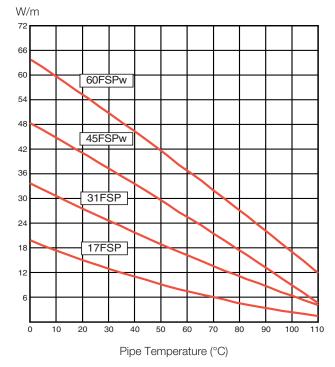
Heat Trace supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls. Such items carry separate approvals from the heating tapes. When used in hazardous areas, only use approved components.

* Standard insulation material is fluoropolymer

Cat	Start-up	230V				
Ref	Temperature	6A	10A	16A	20A	25A
17FSP	10°C	60	100	154	-	-
	0°C	52	86	136	154	-
	–20°C	40	66	106	132	154
	-40°C	36	60	96	120	150
31FSP	10°C	38	64	102	110	-
	0°C	34	56	90	110	-
	–20°C	24	40	62	78	98
	-40°C	22	38	60	76	94
45FSPw	10°C	22	38	60	76	96
	0°C	20	34	56	68	84
	–20°C	14	24	38	46	58
	-40°C	14	22	36	46	56
60FSPw	10°C	20	34	52	66	82
	0°C	18	30	48	58	74
	–20°C	12	22	34	44	54
	-40°C	12	20	32	40	48

THERMAL RATINGS

Nominal output at 115V or 230V when FREEZSTOP PLUS is installed on insulated metal pipes.



FURTHER INFORMATION

Please consult the appropriate termination instructions and the Heat Trace Installation, Maintenance and Testing Manual (IMEHT010) for further details. For VDE compliant heaters, please consult the installation principles for flexible electric heat tracing (TDS9078/001).

ibemo Kazakhstan Ltd. 09302 Republic of Kazakhstan , West Kazakhstan Oblast, Aksai, Pramzone, BKKS office complex Tel.: +7(71133) - 93077 ; Fax: +7 (71133) - 93074; e-mial: info-kz@ibemo.de

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