

Self-Regulating Heating Tape Freezstop Regular 85°C - FSR



Electrical heating tape for freeze protection of pipework and vessels in safe or hazardous locations

- 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 110-120VAC and 220-277VAC

FEATURES

FREEZSTOP REGULAR is an industrial grade, self-regulating heating tape that can be used for freeze protection or temperature maintenance to 85°C.

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

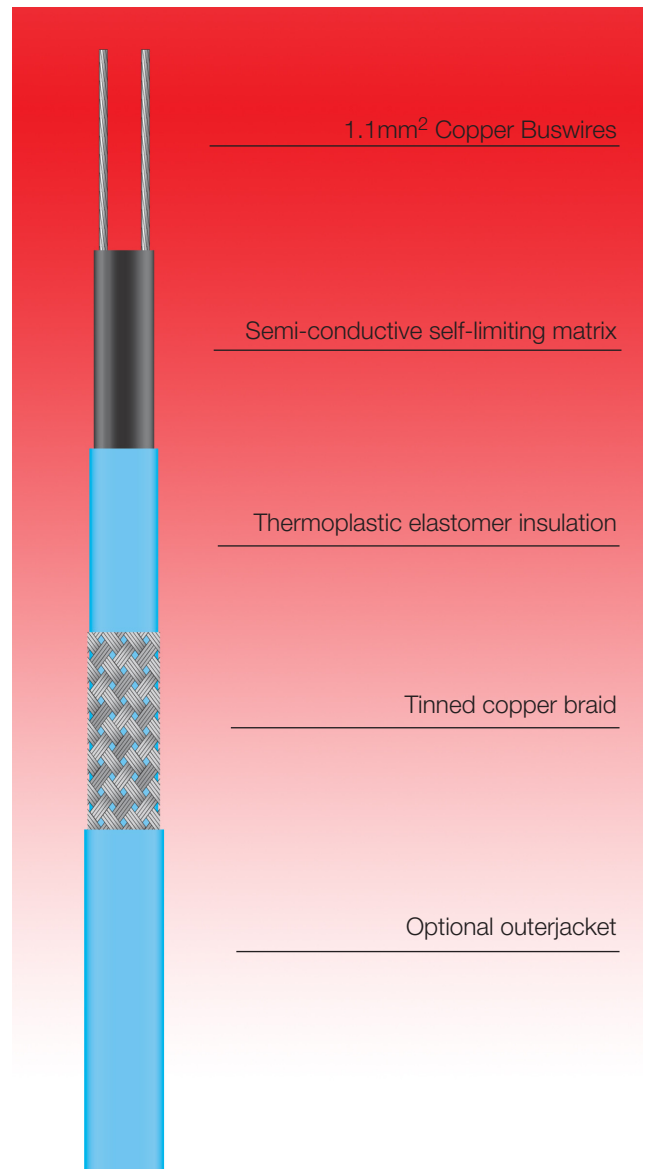
FREEZSTOP REGULAR is approved for use in non-hazardous, hazardous and corrosive environments to world wide standards.

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

The installation of FREEZSTOP REGULAR 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

- FSR .. C Tinned copper braid for non-hazardous areas, hazardous areas or where traced equipment does not provide an effective earth path, eg. plastic pipework.
- FSR .. CT Thermoplastic overjacket over tinned copper braid provides additional protection.
- FSR .. CF Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapours may be present.



SPECIFICATION









MAXIMUM TEMPERATURE	85°C (185°F)
MAX. PERMISSIBLE TEMPERATURE de-energised	85°C (185°F)
MINIMUM INSTALLATION TEMPERATURE	-40°C (-40°F) (CENELEC -20°C, -4°F)
TEMPERATURE CLASSIFICATION	up to 31 W/m T6 (85°C) 40 W/m and/or 277V T4 (135°C)
POWER SUPPLY	110 – 120VAC, 220 – 277VAC

MAXIMUM RESISTANCE OF PROTECTIVE BRAIDING	18.2 Ohm/km
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WEIGHTS & DIMENSIONS

Type Ref	Nom. Dims. (mm)	Weight kg/100m	Min. Bending radius	Gland Size
FSR	10.9 x 3.8	5.8	25 mm	M20
FSR .. C	11.8 x 4.7	11.2	30 mm	M20
FSR .. CT	13.1 x 6.0	13.1	35 mm	M20
FSR .. CF	13.1 x 6.0	13.4	35 mm	M20

APPROVAL DETAILS

Testing Authority	Certificate No.	Standard
CENELEC 	SCS Ex 94D3079	EN60079-0/EN60079-7
ATEX 	Sira 02ATEX3070	EN60079-0/EN60079-7 IEC62086
IEC 	Sira 02Y3060	CEI IEC62086 & IEC60079-7
FM 	3009080	ANSI/IEEE Std 515
VDE 	114665	DIN VDE 0254
CSA 	214197-1295278	C22.2 No. 130.1 C22.2 No. 130.2 C22.2 No. 138
Lloyds Register 	02/00062	EN60079-0/EN60079-7 EEE Std 515
GOST R 	POCC GB.ГБ05.В02364	GOST R 51330.0-99 (МЭК 60079-0-98) GOST R 51330.8-99

ORDERING INFORMATION

Example	17FSR2-CT
Output 17W/m at 10°C	
FREEZSTOP REGULAR	
Supply Voltage 220 - 277V AC	
Tinned Copper Braid	
Thermoplastic Outerjacket	

ACCESSORIES

Backer 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.

MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE

Cat Ref	Start-up Temperature	230V				
		6A	10A	16A	20A	25A
10FSR	10°C	90	152	198	-	-
	0°C	74	122	196	198	-
	-20°C	50	84	136	170	198
	-40°C	44	74	118	148	184
17FSR	10°C	60	102	154	-	-
	0°C	48	82	130	154	-
	-20°C	40	66	106	132	154
	-40°C	30	50	80	100	124
25FSR	10°C	46	76	122	124	-
	0°C	36	62	98	122	124
	-20°C	20	34	56	70	88
	-40°C	20	32	50	64	80
31FSR	10°C	28	46	74	92	110
	0°C	20	34	54	66	84
	-20°C	16	26	40	50	64
	-40°C	14	24	38	48	60
40FSR	10°C	20	34	56	70	88
	0°C	14	24	40	50	62
	-20°C	12	20	30	38	48
	-40°C	10	18	30	36	46

For use with Type C circuit breakers to BS EN60898:1991

THERMAL RATINGS

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

