Self-Regulating Heating Tape
Freezstop Super 150°C - FSS

Electrical heating tape for process heating or temperature maintenance of pipework and vessels in safe or hazardous areas

- *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*
- *High power outputs up to 55W/m*
- *Full range of controls and accessories*
- *Available for 220/240VAC (110/120VAC on demand)*
- *Approvals to CENELEC standards for hazardous and corrosive environments*

FEATURES

FREEZSTOP SUPER is an industrial grade, self-regulating heating tape to BS6351 Grade 22 that can be used for applications ranging from process heating or maintenance of temperatures up to 150°C.

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

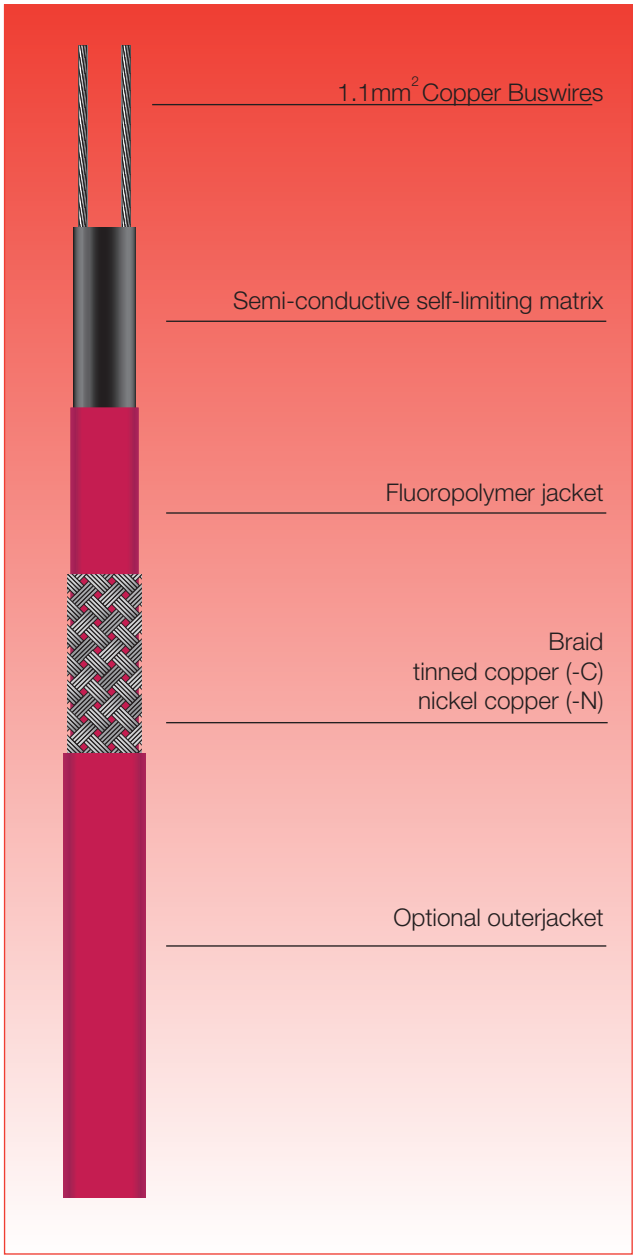
FREEZSTOP SUPER is suitable for use in safe (non-hazardous) or hazardous and corrosive environments in accordance with CENELEC EN50014/50019.

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

The installation of FREEZSTOP SUPER 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

FSS..x	Tinned copper (C), or nickel (N) braid for non-hazardous areas, hazardous areas or where traced equipment does not provide an effective earth path, eg. plastic pipework. Heaters must have additional protection from mechanical damage in service.
FSS..xF	Fluoropolymer outerjacket over tinned copper (C), or nickel (N) braid provides additional protection where corrosive chemical solutions or vapours may be present.



SPECIFICATION

MAXIMUM TEMPERATURE	150°C (302°F)
MAXIMUM PERMISSIBLE de-energised	200°C (392°F)
MINIMUM INSTALLATION TEMPERATURE	–30°C (–22°F) CENELEC –20°C (–4°F)
TEMPERATURE CLASSIFICATION	Braided - T2 (300°C) Braid and Outerjacket - T3 (200°C)
POWER SUPPLY	220 - 277 VAC (110 - 120 VAC on demand)
MAXIMUM RESISTANCE OF PROTECTIVE BRAIDING	18.2 Ohm/km

WEIGHTS & DIMENSIONS

Type Ref	Nom. Dims. (mm)	Weight kg/100m	Min. Bending radius @ –20°C	Gland Size
FSS	10.4 x 3.4	7.6	20 mm	M20
FSS..x	11.4 x 4.4	11.7	25 mm	M20
FSS..xF	12.2 x 5.2	15.4	30 mm	M20

'x' denotes 'C' for tinned, or 'N' for nickel copper braid

APPROVAL DETAILS

Testing Authority	Certificate No.	Standard
CENELEC	SCS Ex 99E3175*	EN60079-0/EN60079-7
ATEX	Sira 02ATEX3072	EN60079-0/EN60079-7 & IEC62086
IEC	Sira 02Y3062	CEI IEC62086 & IEC60079-7
FM	3009080	ANSI/IEEE Std 515
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 IEEE Std 515
GOST R	РОСС GB.ГБ05.B02364	GOST R 51330.0-99 (МЭК 60079-0-98) GOST R 51330.8-99

Further approvals, and approvals for braid only FSS are available on request.

* Suffix 'X' for braid only heaters

ORDERING INFORMATION

Example 55FSS2-CF

- Output 55W/m at 10°C
- Freezstop Super
- Supply Voltage 220 - 240V AC
- Tinned Copper Braid
- Fluoropolymer outer jacket

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.

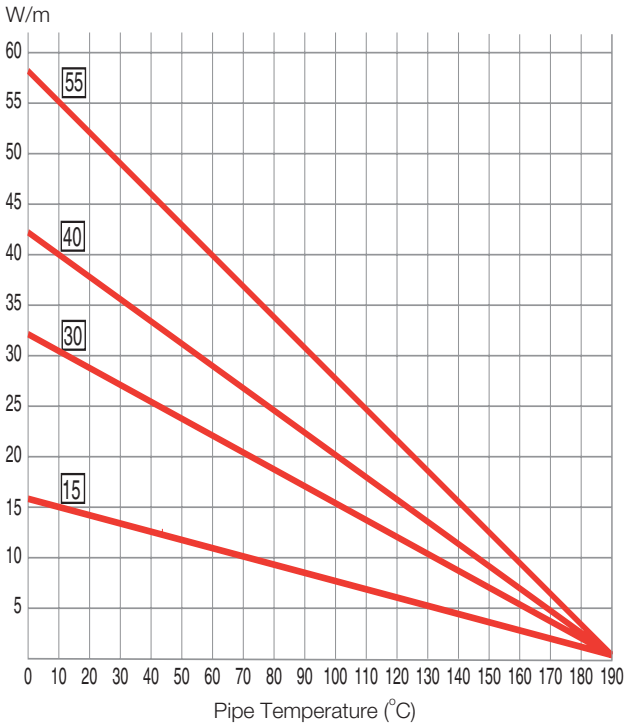
MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE

Cat Reference	Start-up Temperature	230V 6A	10A	16A	20A	25A
15FSS	10°C	68	112	162	-	-
	0°C	64	106	162	-	-
	–20°C	56	94	150	162	-
	–40°C	50	84	134	162	-
30FSS	10°C	34	58	92	114	-
	0°C	34	56	88	112	114
	–20°C	30	50	82	102	114
	–40°C	28	46	74	94	114
40FSS	10°C	26	42	66	84	98
	0°C	24	40	64	80	98
	–20°C	22	36	58	72	90
	–40°C	20	34	52	66	82
55FSS	10°C	20	32	52	64	80
	0°C	18	30	50	62	78
	–20°C	16	28	44	56	70
	–40°C	16	26	40	50	64

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

THERMAL RATINGS

Nominal output at 230V when FSS is installed on insulated metal pipes.



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