

Extremely high temperature self-regulating heating cable.

FailSafe Ultima

Inherently Temperature-Safe Heating Cable

- 250°C exposure temperature withstand, (energised or switched off).
- High power outputs to 100W/m at 10°C
- Inherently temperature-safe. (ITS)
- External temperature controls not necessary.

DESCRIPTION

FSU is an extremely high temperature self-regulating heating cable, having an exposure limit of 250°C, energised or not.

Easy terminations, cut-to-length.

Safest ever self-regulating product range for extremely high temperature exposure; will not overheat even when exposed to 250°C when energised or switched off as it is inherently temperature-safe.

ATEX and IECEx Approved.

Buswires. Inherently temperature-safe self-regulating matrix. Fluoropolymer electrical insulation. Metal braid. (-N) Optional corrosion resisting outer jacket. (-F)

INHERENTLY TEMPERATURE-SAFE

"The inherent ability to self-regulate at a temperature level below the maximum product rating and withstand temperature of the insulating materials, without the need for temperature control."

Similar competitor self-regulating products are typically limited to a maximum energised temperature, typically 120°C at which point, their retained power output prevent the cable from selfregulating at its own limiting temperatures. All such products require temperature control to ensure their own temperature safety.























SPECIFICATION

MAXIMUM EXPOSURE TEMPERATURE: 250°C (482°F) (ENERGISED OR SWITCHED OFF)

MINIMUM OPERATING

TEMPERATURE: -65°C* (-85°F)

MINIMUM INSTALLATION

TEMPERATURE: -40°C (-40°F)

POWER SUPPLY: 1 - 277V AC

TEMPERATURE CLASSIFICATION:

up to 75W/m @ nom 230V powered to 277V - T3 (200°C) >75W/m @ nom 230V powered to 277V - T2 (300°C)

WEIGHTS & DIMENSIONS:

Type Ref	Dimensions. (mm) +/-0.5	Weight kg/100m	Min Bending radius	Gland Size
FSU-N FSU-NF	10.2 x 3.5 11.2 x 4.5 12.1 x 5.4	7.6 11.3 14.6	20mm 30mm 35mm	M20 M20 M20
FSUw-N FSUw-NF	12.5 x 3.7 13.5 x 4.7 14.4 x 5.6	11.4 15.8 19.5	25mm 30mm 35mm	M25 M25 M25

APPROVAL DETAILS:

ATEX - Sira 04ATEX3012, Sira 13ATEX3126

IECEx - SIR 11.0131, SIR 11.0132

DNV-GL - E12835

CSA - 1295278, 1547590 EAC* - TC RU C-GB.ГБ05.В.00186

ORDERING INFORMATION:

Example:	75 FSU 2 - N F		
	TTTTTT		
Output 75W/m at 10°C ———			
FSU Heating Cable ————			
Supply Voltage 220 - 277V AC —			
Metal Braid ————			
Outer Sheath, Fluoropolymer —			

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 cables. Use only approved components, as per system certification.

FURTHER INFORMATION:

Please consult the appropriate termination instructions and the Heat Trace Installation, Maintenance and Testing Manual (HTDIMM 010) for further details.

MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE:

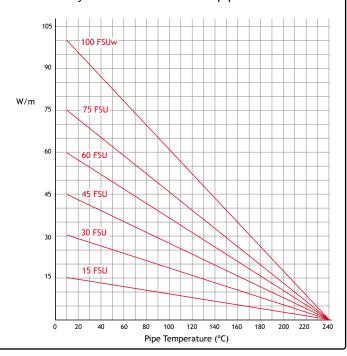
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

Cat	Start-up		23	80V	
Reference	Temperature	10A	16A	20A	32A
15FSU	10°C	76	122	154	154
	0°C	70	112	140	146
	-20°C	62	98	122	138
	-40°C	52	82	102	126
30FSU	10°C	52	82	102	108
	0°C	46	74	92	104
	-20°C	40	66	82	98
	-40°C	30	50	62	88
45FSU	10°C	38	62	76	88
	0°C	32	52	66	84
	-20°C	24	38	46	76
	-40°C	14	24	28	46
60FSU	10°C	24	38	46	76
	0°C	18	30	36	58
	-20°C	12	20	26	42
	-40°C	8	12	16	24
75FSU	10°C	14	24	28	46
	0°C	12	18	22	36
	-20°C	8	12	16	24
	-40°C	4	8	10	14
100FSUw	10°C	14	22	28	46
	0°C	12	18	24	36
	-20°C	8	14	16	26
	-40°C	6	10	12	20

For use with Type C circuit breakers to IEC 60898

THERMAL RATINGS:

Nominal output at 230V when FSU is installed on thermally insulated carbon steel pipes.





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