

Extremely high temperature self-regulating heating cable.

## FailSafe Ultimo

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.

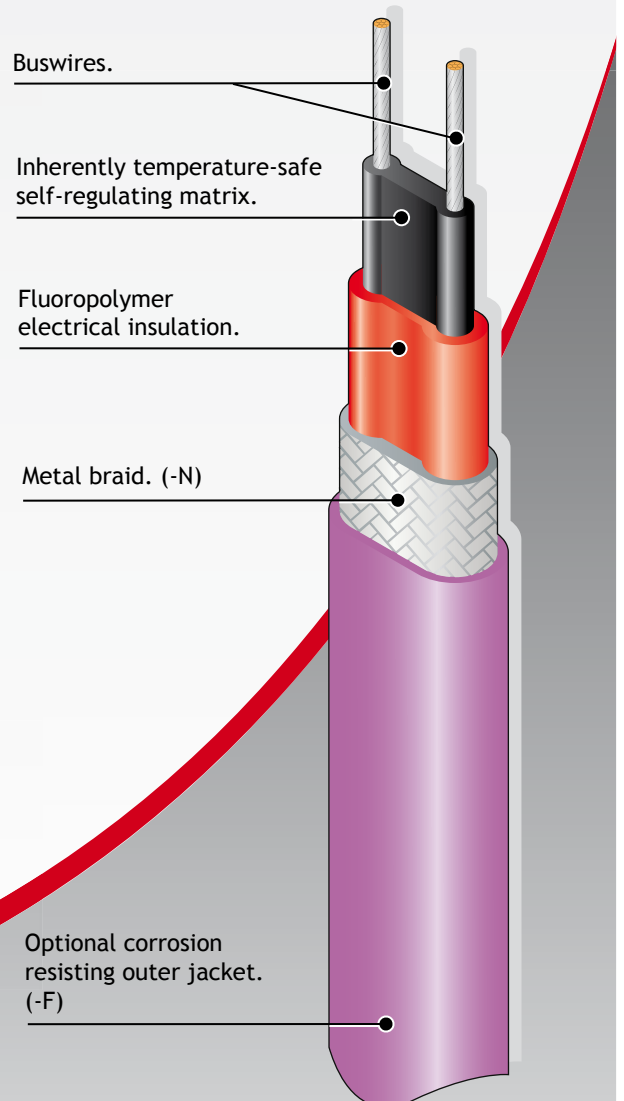
Safest ever self-regulating product range for extremely high temperature exposure; will not overheat even when exposed to 250°C when energised or switched off as it is *inherently temperature-safe*.

ATEX and IECEx Approved.

### 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 self-regulating 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

### WEIGHTS & DIMENSIONS:

Type Ref	Dimensions (mm) +/-0.5	Weight kg/100m	Min Bending radius	Gland Size
FSU	10.2 x 3.5	7.6	20mm	M20
FSU-N	11.2 x 4.5	11.3	25mm	M20
FSU-NF	21.1 x 5.4	14.6	30mm	M20
FSUw	12.5 x 3.7	11.4	30mm	M25
FSUw-N	13.5 x 4.7	15.8	30mm	M25
FSUw-NF	14.4 x 5.6	19.5	30mm	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.B.00186

### ORDERING INFORMATION:

Example: **75 FSU 2 - N F**

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:

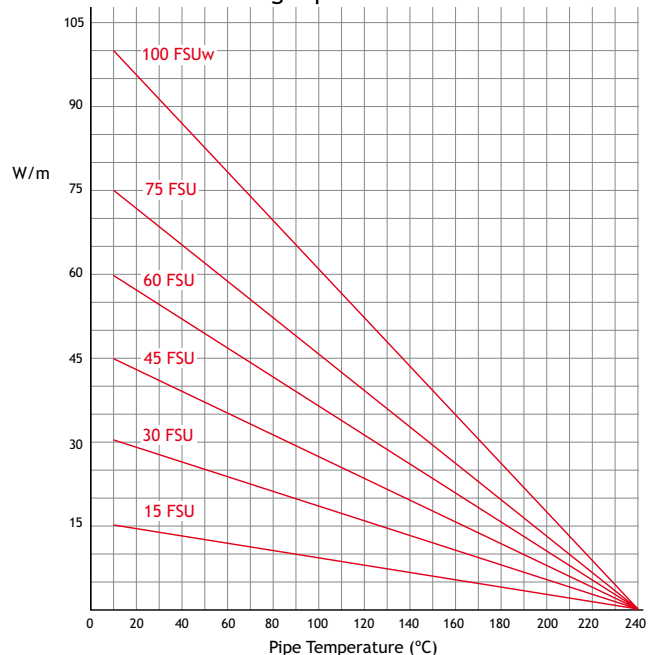
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

Cat Reference	Start-up Temperature	230V			
		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, being fixed with aluminium fixing tape.



**HEAT TRACE**<sup>TM</sup>  
 SETTING THE STANDARDS LEADING THE WAY

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