

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.

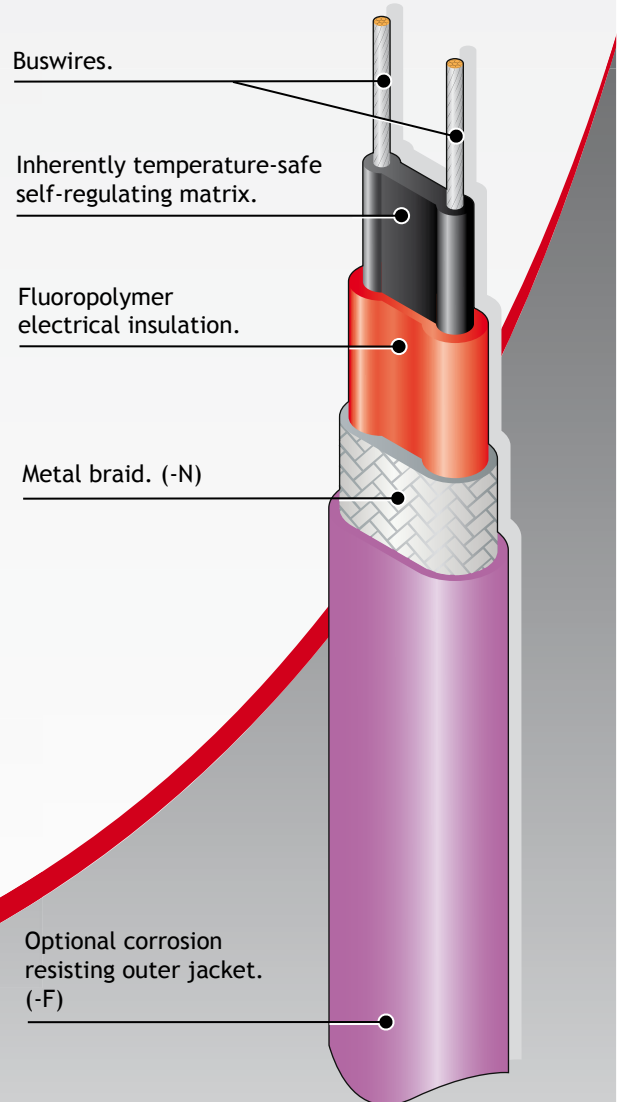
Safest ever self-regulating product range for extremely high temperature exposure; will not overheat even when exposed to 250°C when energised or switched off as it is *inherently temperature-safe*.

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 | 12.1 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:

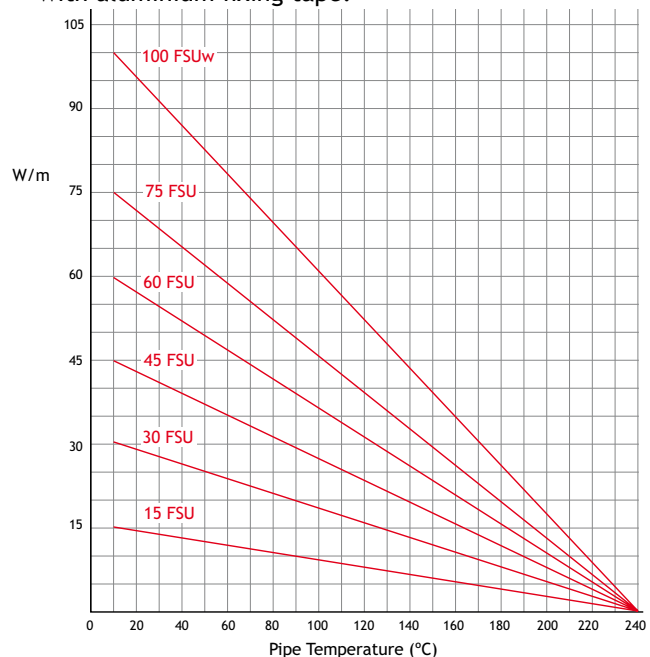
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

| 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 TRACETM
 SETTING THE STANDARDS LEADING THE WAY

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