# FSS 225°C

Very high temperature
self-regulating heating cable.

# FailSafe Super

***Inherently Temperature-Safe Heating Cable***

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature.
- Can be cut-to-length.
- Inherently temperature safe.
- Suitable for use in safe, hazardous and corrosive areas.
- High power outputs to 75W/m at 10°C.
- Full range of controls and accessories available.

## DESCRIPTION

**FAILSAFE SUPER** is a very high temperature self-regulating heating cable, having an exposure limit of 225°C, energised or not.

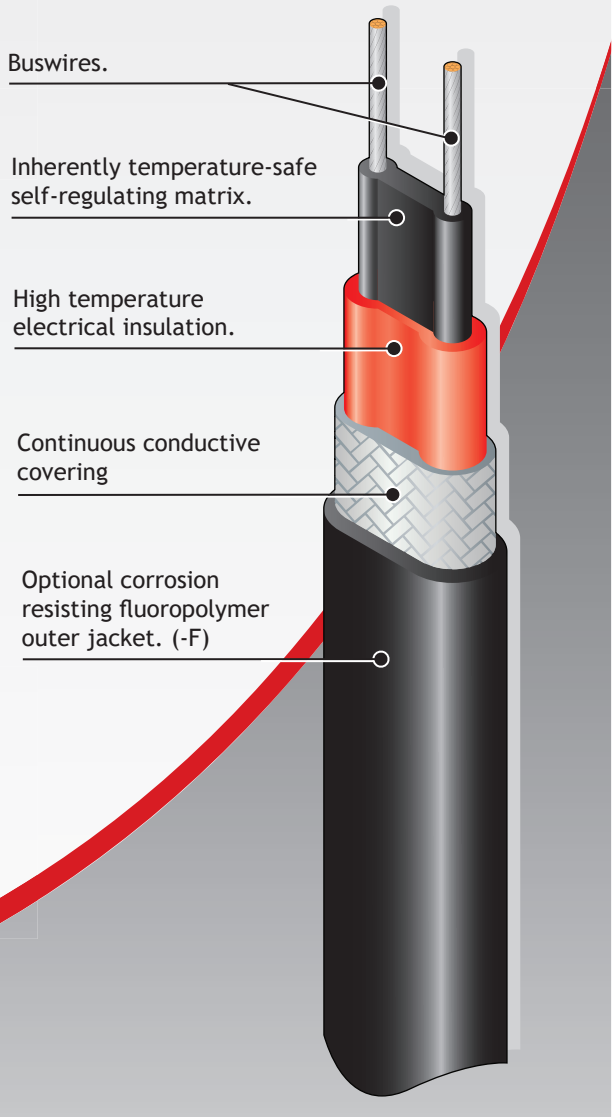
FAILSAFE SUPER is provided with a metal braid for flexibility and a thermoplastic or fluoropolymer outer jacket.

Easy terminations, cut-to-length.

Safest ever self-regulating product range for very high temperature exposure; will not overheat even when exposed to 225°C when energised or switched off as it is *inherently temperature-safe*.

FAILSAFE SUPER is approved for use in non-hazardous, hazardous and corrosive environments to worldwide standards.

ATEX, IECEx & UKEX 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.

CE 2776 Ex IEC IECEx
UK CA 2503 DNV

HEAT TRACE

*The* Heat Tracing Authority™

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# SPECIFICATION

**MAXIMUM CONTINUOUS EXPOSURE TEMPERATURE: (ENERGISED OR SWITCHED OFF)** 225°C† (437°F)

**MINIMUM OPERATING TEMPERATURE:** -40°C (-40°F)

**MINIMUM INSTALLATION TEMPERATURE:** -40°C (-40°F)

**POWER SUPPLY:** 12 - 277V AC/DC

**TEMPERATURE CLASSIFICATION:**
15FSS, 30FSS, 45FSS & 60FSS @ nom 230V - T3 (200°C)
75FSS @ nom 230V - T2 (300°C)

**INGRESS PROTECTION** IP67

**WEIGHTS & DIMENSIONS:**

| Type Ref | Dimensions (mm) +/-0.5 | Weight kg/100m | Min Bending radius | Gland size |
|---|---|---|---|---|
| FSS-C | 10.55 x 4.35 | 10.4 | 30mm | M20 |
| FSS-CF | 12.35 x 6.15 | 13.4 | 35mm | M20 |

**APPROVAL DETAILS:**
ATEX† - CML 19ATEX3377
IECEx† - CML 19.0120
UKEX - CML 21UKEX31135
DNV - TAE00002KB
CCC - 2022312312000166

**ORDERING INFORMATION:**
Example; 30 FSS 2 - C option F

- 30 — Output 30w/m at 10°C
- FSS — FSS Heating Cable
- 2 — Supply Voltage 220 - 240V AC/DC
- C — Metal Braid
- F — 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.

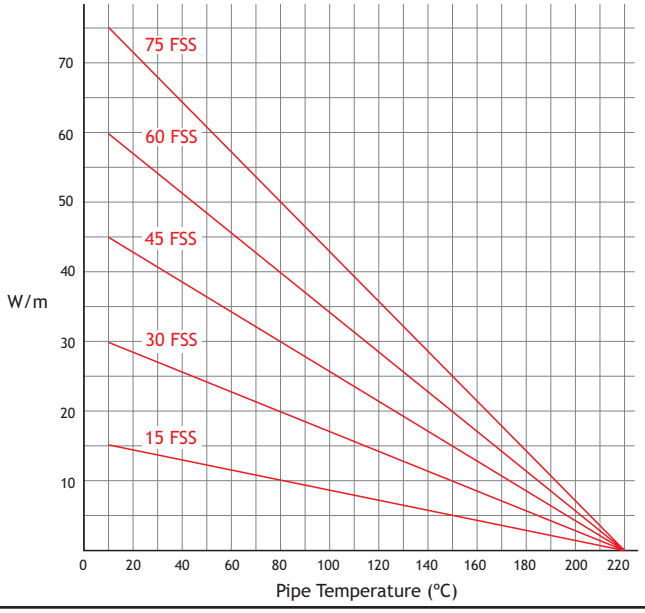
**MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE:**
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

| Cat Reference | Environmental Start-up Temp. | 230V 10A | 16A | 20A | 32A | 50A |
|---|---|---|---|---|---|---|
| 15FSS | 10°C | 76 | 122 | 154 | 172 | 172 |
| | 0°C | 70 | 112 | 140 | 172 | 172 |
| | -20°C | 62 | 98 | 122 | 172 | 172 |
| | -40°C | 52 | 82 | 102 | 164 | 172 |
| 30FSS | 10°C | 52 | 82 | 102 | 122 | 122 |
| | 0°C | 46 | 74 | 92 | 122 | 122 |
| | -20°C | 40 | 66 | 82 | 122 | 122 |
| | -40°C | 34 | 54 | 68 | 110 | 122 |
| 45FSS | 10°C | 38 | 62 | 76 | 100 | 100 |
| | 0°C | 34 | 56 | 70 | 100 | 100 |
| | -20°C | 30 | 50 | 62 | 98 | 100 |
| | -40°C | 22 | 34 | 44 | 70 | 100 |
| 60FSS | 10°C | 30 | 50 | 62 | 86 | 86 |
| | 0°C | 28 | 44 | 56 | 86 | 86 |
| | -20°C | 20 | 32 | 40 | 62 | 86 |
| | -40°C | 12 | 18 | 24 | 38 | 60 |
| 75FSS | 10°C | 24 | 40 | 50 | 76 | 76 |
| | 0°C | 18 | 30 | 38 | 60 | 76 |
| | -20°C | 14 | 22 | 26 | 42 | 66 |
| | -40°C | 8 | 12 | 16 | 26 | 40 |

For use with Type C circuit breakers to IEC 60898.

These circuit lengths may be exceeded dependant on specific design parameters.

**THERMAL RATINGS:**
Nominal output at 230V when FSS is installed on thermally insulated carbon steel pipes. For 75W/m and above, the use of aluminium overfoiling is strongly recommended to optimise the thermal transmission to the pipe and achieve the stated thermal ratings.





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