

Very high temperature self-regulating heating cable.

# FailSafe Supe

Inherently Temperature-Safe Heating Cable

- 225°C exposure temperature withstand, (energised or switched off).
- Inherently temperature-safe. (ITS)
- High power outputs to 75W/m at 10°C
- External temperature controls not necessary.

## **DESCRIPTION**

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

It may be provided with a continuous extruded metal jacket for applications where high mechanical strength is required or a metal braid where flexibility is preferred.

The continuous metal outer jacket is ductile, yet withstands high mechanical loads, thus averting damage when being installed in arduous environments.

Easy terminations, cut-to-length.

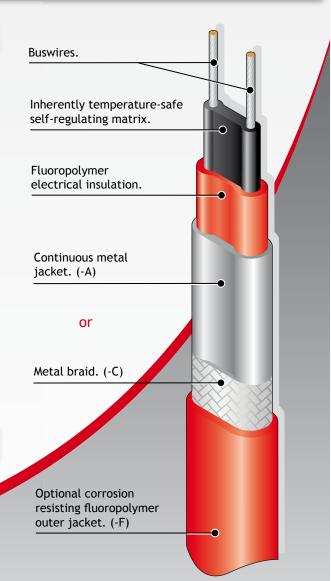
Safest ever self-regulating product range for very high temperature exposure; will not overheat even when exposed to 225°C when energised or switched off as it is inherently temperature-safe.

ATEX/ 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 selfregulating at its own limiting temperatures. All such products require temperature control to ensure their own temperature safety.

















**Heat Tracing Authority**"

### **SPECIFICATION**

MAXIMUM CONTINUOUS EXPOSURE

TEMPERATURE:

225°C (437°F)

(ENERGISED OR SWITCHED OFF)

MINIMUM OPERATING

*TEMPERATURE*: -65°C\* (-85°F)

MINIMUM INSTALLATION

TEMPERATURE: -40°C (-40°F)

**POWER SUPPLY:** 

1 - 277V AC

(other voltages available on request)

#### **WEIGHTS & DIMENSIONS:**

| Type     | Dimensions   | Weight  | Min Bending | Gland |
|----------|--------------|---------|-------------|-------|
| Ref      | (mm) +/-0.5  | kg/100m | radius      | size  |
|          | ` ,          | 3       |             |       |
| FSS-Δ    | 10.45 x 4.25 | 12 4    | 20mm        | M20   |
|          |              |         |             |       |
| FSS-AF ' | 10.90 x 4.70 | 15.8    | 20mm        | M20   |
| FSS-C    | 10.55 x 4.35 | 10.4    | 20mm        | M20   |
| FSS-CF   | 11.45 x 5.25 | 13.4    | 20mm        | M20   |

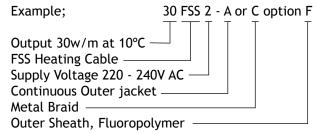
#### APPROVAL DETAILS:

ATEX - Sira 02ATEX3072 IECEx - SIR 11.0120

EAC\* - TC RU C-GB.ГБ05.В.00186

FM - 3009080

#### ORDERING INFORMATION:



#### **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:

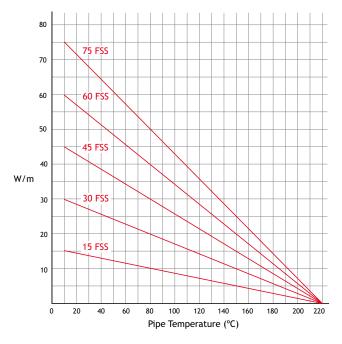
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

| Cat       | Start-up    | 230V |     |     |     |  |
|-----------|-------------|------|-----|-----|-----|--|
| Reference | Temperature | 10A  | 16A | 20A | 32A |  |
| 15FSS     | 10°C        | 76   | 122 | 154 | 154 |  |
|           | 0°C         | 70   | 112 | 140 | 146 |  |
|           | -20°C       | 62   | 98  | 122 | 138 |  |
|           | -40°C       | 52   | 82  | 102 | 126 |  |
| 30FSS     | 10°C        | 52   | 82  | 102 | 108 |  |
|           | 0°C         | 46   | 74  | 92  | 104 |  |
|           | -20°C       | 40   | 66  | 82  | 98  |  |
|           | -40°C       | 30   | 50  | 62  | 88  |  |
| 45FSS     | 10°C        | 38   | 62  | 76  | 88  |  |
|           | 0°C         | 32   | 52  | 66  | 84  |  |
|           | -20°C       | 24   | 38  | 46  | 76  |  |
|           | -40°C       | 14   | 24  | 28  | 46  |  |
| 60FSS     | 10°C        | 24   | 38  | 46  | 76  |  |
|           | 0°C         | 18   | 30  | 36  | 58  |  |
|           | -20°C       | 12   | 20  | 26  | 42  |  |
|           | -40°C       | 8    | 12  | 16  | 24  |  |
| 75FSS     | 10°C        | 14   | 24  | 28  | 46  |  |
|           | 0°C         | 12   | 18  | 22  | 36  |  |
|           | -20°C       | 8    | 12  | 16  | 24  |  |
|           | -40°C       | 4    | 8   | 10  | 14  |  |

For use with Type C circuit breakers to IEC 60898.

#### THERMAL RATINGS:

Nominal output at 230V when FSS is installed on thermally insulated carbon steel pipes, being fixed with aluminium fixing tape.





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