

Very high temperature self-regulating heating cable.

FailSafe Supe

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 selfregulating 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 Approved.

Buswires.

Inherently temperature-safe self-regulating matrix.

High temperature electrical insulation.

Continuous conductive covering of tinned copper/nickel plated copper braid. (-C)

Optional corrosion resisting fluoropolymer 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 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: 12 - 277V AC

TEMPERATURE CLASSIFICATION:

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

INCRESS PROTECTION	ID47
INGRESS PROTECTION	IP6/

WEIGHTS & DIMENSIONS:

Type Ref	Dimensions (mm) +/-0.5	•	Min Bending radius	Gland size
	10.55 x 4.35 11.45 x 5.25		30mm 35mm	M20 M20

APPROVAL DETAILS:

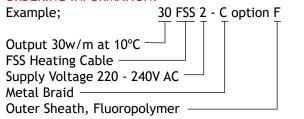
ATEX† - CML 19ATEX3377 IECEx† - CML 19.0120

EAC*† - TC RU C-GB.MЮ62.B.06041

FM - 3009080

CSA - 1295278, 1547590

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	Environmental			230V		
Reference	Start-up Temp.	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.

