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.

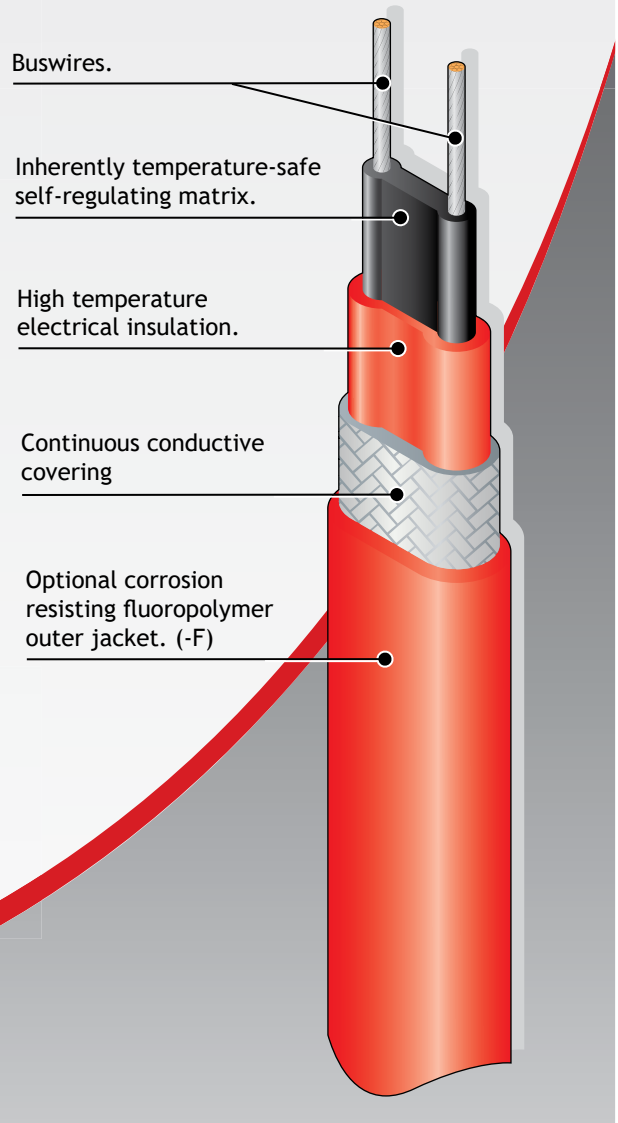
FAILSAFE SUPER is provided with a metal braid for flexibility and a thermoplastic or fluoropolymer outer jacket.

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.

HEAT TRACE 45 Years 1974 - 2019

The Heat Tracing Authority™

SRDS0111 (19102023) Issue 10

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
EAC† - ЕАЭС RU C-GB.HA65.B.01383/22
UKEX - CML 21UKEX31135
DNV - TAE00002KB
CCC - 2022312312000166

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

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

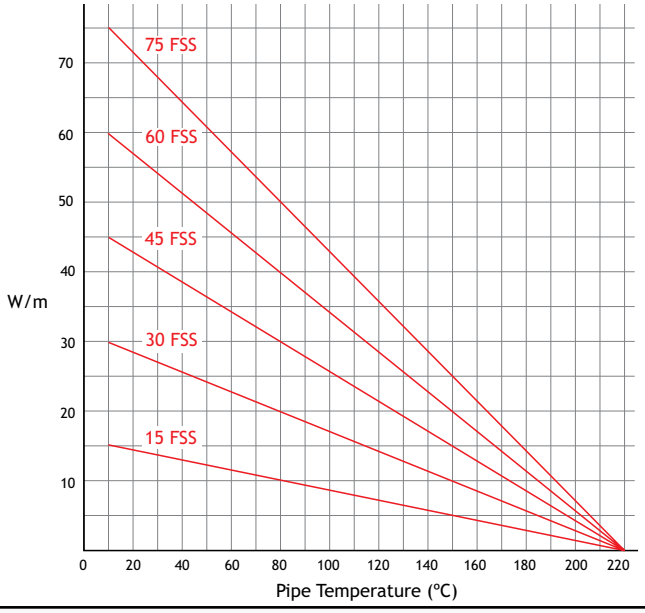
MAXIMUM LENGTH (m) vs. CIRCUIT BREAKER SIZE:
The following circuit details relate specifically for the trace heating of pipework and equipment. For any other application consult Heat Trace.

Cat Reference	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.



HEAT TRACE
Heat Trace Ltd, Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, England.
Tel: +44 (0)1928 726451
www.heat-trace.com Email: info@heat-trace.com

SRDS0111 (19102023) Issue 10