



A high temperature self-regulating heating cable.

Inherently Temperature-Safe Heating Cable

FailSaf

- 225°C exposure temperature withstand, (energised or switched off).
- Inherently temperature-safe. (ITS)
- Power outputs to 60W/m at 10°C
- External temperature controls not necessary.

DESCRIPTION

FS+ is a 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 high temperature exposure; will not overheat even when exposed to 225°C when energised or switched off as it is *inherently temperature-safe*.

ATEX and IECEx Approved.

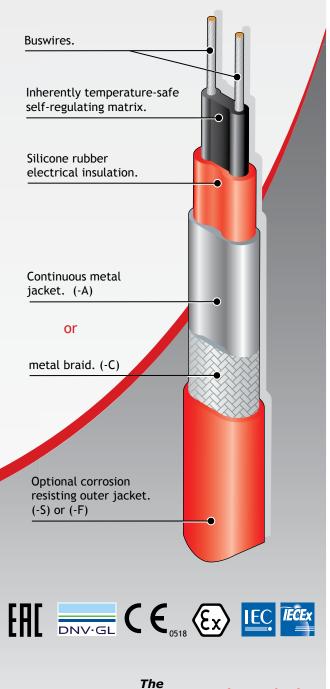
INHERENTLY TEMPERATURE-SAFE

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







(Sep 17)

SRDS0108

SPECIFICATION

MAXIMUM CONTINUOUS EXPOSURETEMPERATURE:225°C (437°F)(ENERGISED OR SWITCHED OFF)						
MINIMUM OPERATINGTEMPERATURE:-65°C* (-85°F)						
MINIMUM INSTALLATIONTEMPERATURE:-40°C (-40°F)						
POWER SUPPLY: 12 - 277V AC						
TEMPERATURE CLASSIFICATION:T3 (200°C)						
WEIGHTS & DIMENSIONS: Type Dimensions Weight Min Bending Gland Ref (mm) +/-0.5 kg/100m radius Size						
FS+A12.45 x 6.2511.950mmM20FS+AS14.45 x 8.2515.150mmM20FS+AF13.35 x 7.1515.050mmM20FS+C11.65 x 5.459.935mmM20FS+CS13.65 x 7.4512.945mmM20FS+CF12.55 x 6.3512.840mmM20						
APPROVAL DETAILS: ATEX - Sira 12ATEX3136 IECEx - SIR 12.0054 DNV-GL - E12834 EAC* - TC RU C-GB.AA87.B.00610 Japanese - CML 17JPN3007X - 1 to 2						
ORDERING INFORMATION:Example; $45 + 2 - 4 \text{ or } C + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 +$						
Output 45W/m at 10°C — FS+ Heating Cable — Supply Voltage 220 - 277V AC — Continuous Metal Jacket —						

Continuous Metal Jacket Metal Braid -Outer Sheath, Silicone Rubber 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.

ATEX & IECEx MARKINGS:

⟨€x⟩ || 2 GD Ex e IIC T3 Gb Ex tb IIIC T200°C Db

EN 60079-0: 2012+A11:2013 EN 60079-31: 2014 EN 60079-30-1: 2007

IP67



www.heat-trace.com

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.

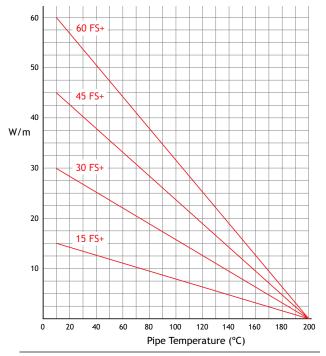
Cat	Environmental			230V		
Reference	Start-up Temp.	10A	16A	20A	32A	50A
15FS+	10°C	76	122	154	172	172
	0°C	70	112	140	172	172
	-20°C	62	98	122	172	172
	-40°C	52	82	102	164	172
30FS+	10°C	52	82	102	122	122
	0°C	46	74	92	122	122
	-20°C	40	66	82	122	122
	-40°C	34	54	68	110	122
45FS+	10°C	38	62	76	100	100
	0°C	34	56	70	100	100
	-20°C	30	50	62	98	100
	-40°C	22	34	44	70	100
60FS+	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

For use with Type C circuit breakers to IEC60898

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

THERMAL RATINGS:

Nominal output at 230V when FS+ is installed on thermally insulated carbon steel pipes.



FURTHER INFORMATION:

Please consult the appropriate termination instructions and the Heat Trace Design, Installation and Maintenance Manual (HTDIMM 010) for further details.

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