

The worlds highest temperature self-regulating heating cable.

Auto FailSafe Inherently Temperature-Safe Heating Cable

- 300°C exposure temperature withstand, (energised or switched off).
- The worlds highest self-regulating heating cable, power output - 150W/m at 10°C
- *Inherently temperature-safe. (ITS)*
- External temperature controls not necessary.

DESCRIPTION

AFS is a high strength self-regulating heating cable having temperature and power capabilities beyond those of any competitor worldwide. Its limit of 300°C, energised or not, is beyond the limits of conventional polymers. Its high power capabilities (of up to 150W/m @ 10°C) makes it eminently suited to medium and high temperature applications such as bitumen melt-out. Its continuous metal jacket is ductile, yet withstands high mechanical loads, thus averting damage when being installed in arduous environments. It is easy to terminate and cut-to-length. AFS is the safest ever self-regulating product for high temperature exposure; it will not overheat even when exposed to 300°C, when energised or switched off as it is *inherently temperature-safe*.

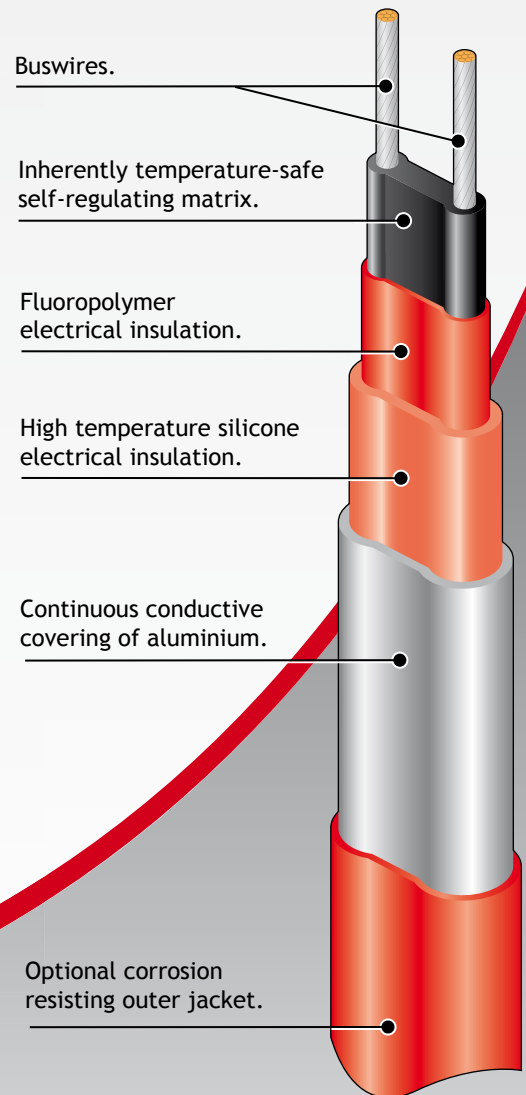
IECEx & ATEX Approval Pending.

A safer, more convenient option to traditional series resistance MI cables, which must be individually designed, are difficult to terminate and are not *inherently temperature-safe*.

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.



SPECIFICATION

MAXIMUM EXPOSURE TEMPERATURE: 300°C (572°F)
(ENERGISED OR SWITCHED OFF)

* Limited to 275°C when optional fluoropolymer jacket is fitted.

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

MINIMUM AMBIENT TEMPERATURE: -60°C (-76°F)

POWER SUPPLY: 1 - 277V AC

WEIGHTS & DIMENSIONS:

Type Ref	Dimensions (mm)+/-0.5	Weight kg/100m	Min Bending radius	Gland Size
AFS	16.75 x 7.95	22.0	50mm	M25
AFS-F	17.65 x 8.85	26.7	50mm	M25

APPROVAL DETAILS: IECEx (pending)
ATEX (pending)

ORDERING INFORMATION:

Example; **75 AFS 2 - F**

Output 75w/m at 10°C
AFS Heating cable
Supply Voltage 220 - 277V AC
Fluoropolymer outer jacket

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	Start-up Temperature	230V			
		16A	20A	32A	63A
15AFS	10°C	122	154	196	196
	0°C	114	144	190	190
	-20°C	102	128	178	178
	-40°C	94	118	172	172
30AFS	10°C	74	92	138	138
	0°C	68	86	134	134
	-20°C	62	76	122	126
	-40°C	56	70	114	122
50AFS	10°C	50	62	98	108
	0°C	46	58	92	104
	-20°C	40	52	82	98
	-40°C	38	48	76	94
75AFS	10°C	36	46	74	88
	0°C	34	42	68	84
	-20°C	28	36	58	80
	-40°C	22	28	46	76
100AFS	10°C	22	28	46	76
	0°C	18	24	36	72
	-20°C	14	16	26	52
	-40°C	10	12	20	40
125AFS	10°C	12	16	24	48
	0°C	10	12	20	38
	-20°C	6	8	14	28
	-40°C	6	6	10	22
150AFS	10°C	8	8	14	28
	0°C	6	8	12	22
	-20°C	4	6	8	16
	-40°C	4	4	6	12

For use with Type C circuit breakers to IEC 60898

THERMAL RATINGS:

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

