

# 300°C

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)

Weight Min Rending Gland

**POWER SUPPLY:** 

Type

1 - 277V AC

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

Dimensions

Ref	(mm)+/-0.5	9	-	Size
AFS	16.75 x 7.95	5 22.0	50mm	M25
AFS-F	17.65 x 8.85	5 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	Start-up		230V			
Reference	Temperature	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, being fixed with aluminium fixing tape.





