

Electrical heating tape for process temperature maintenance of pipework and vessels in safe or hazardous locations



Constant Wattage Heating Tape

- Withstand temperatures up to 425°C
- Outputs available to 150W/m
- Can be cut to length with no wastage
- Approved for use in non-hazardous, hazardous and corrosive environments
- Full range of controls and accessories
- Available for 110-120VAC and 220-277VAC

FEATURES

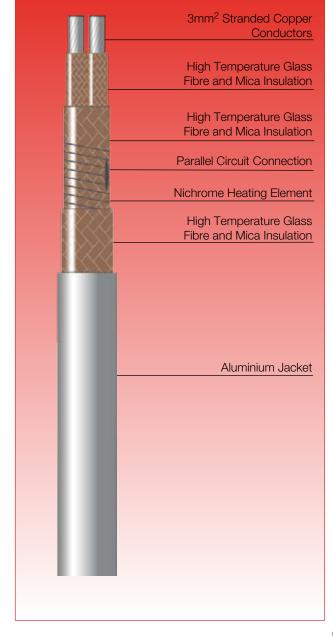
POWERHEAT Type AHT is a constant wattage heating tape that can be used for freeze protection or maintenance of process temperatures in pipework and vessels.

It can be cut-to-length at site and can replace mineral insulated (MI) cables for applications where the cut-to-length feature, or field fabricated heating cable is preferred.

AHT is approved for use in non-hazardous, and hazardous areas to world wide standards.

The installation of AHT heating tape is quick and simple and requires few special skills or tools. Termination and power connection components are all provided in convenient kits.

AHT is jacketted in a continuous aluminum extrusion for maximum mechanical strength, even after severe process upsets.



















SPECIFICATION

SPE	SIFICATIO	· V				
MAXIMUM EXPOSURE TEMPERATURE		Continuous Intermittent		C (644°F) C (797°F)		
	IM OPERATIN RATURE	'G	–65°C	* (–85°F)		
	IM INSTALLAT	TION	ON -40°C (-40			
	RATURE IFICATION or	350°C (T1) T2 (300°C) T3 (200°C) T4 (135°C) T5 (100°C) T6 (85°C)	classified according to output and t conditions o			
POWER	R SUPPLY		0 -	277 VAC		
WEIGH	TS & DIMENS	IONS				
Type Ref	Nom. Dims. (mm)	Weight kg/100m	Min. Bending radius (mm)	Gland Size		
AHT	10 x 7	16.5	25	M20		
APPRO	VAL DETAILS					
Testing Authority		Certificate No.				
ATEX	€x>	Sira 02ATEX3079				
IECEx	IEC TECEN	Sira 11.01	24			
FM	F M APPROVED	3009080				
CSA	® .	1350782 1352981				
DNV-GL	DNV·GL	E12836				
EAC* [H		TC RU C-G	TC RU C-GB.ГБ05.В.00188			
Further a	approvals are av	ailable on rec	quest.			
CONST Heating I Power	RUCTION Element		Nickel C Nick	hromium el Plated		
Conductors Conductor Insulation Primary Insulation			Copp Gla	er 1 lated er 3mm² ass/Mica ass/Mica		
Jacket			Al	uminium		

ORDERING INFORMATION

Supply Voltage 220 - 277VAC

Nominal Output 50W/m

Powerheat type AHT

Example

MAXIMUM PIPE / WORKPIECE TEMPERATURES

The surface of the heater must not exceed the maximum withstand temperature of its constructional materials or the Temperature Classification (if installed in a hazardous area). This is ensured by limiting the pipe or workpiece temperature to a safe level either by design calculation (a Stabilised Design) or by means of temperature controls.

For worst case conditions, the temperature of steel pipes should be limited to the following levels:-

MAXIMUM PIPE / WORKPIECE TEMPERATURES (°C)

Area Classification	Haz	ardou	s ¹				Safe ²
	T6	T5	T4	Т3	T2	T1	
Catalogue Ref.							
15AHT	-	36	71	160	289	350	350
30AHT	-	11	28	100	246	323	323
50AHT	-	-	-	39	178	276	276
70AHT	-	-	-	-	48	140	140
100AHT	-	-	-	-	48	140	140
150AHT	-	-	-	-	-	36	36

Pipe temperatures higher than those given above may be accommodated by using Heat Trace Ltd voltage compensating devices eg. Powermatch^ $^{\rm TM}$ - call for further details.

Tolerances: 115/230V +10%; Resistance +10%; -0%

The above data is for 230V heaters. For 277V heaters, contact your local Heat Trace Representative.

Notes

- 1 Surface temperature limits in accordance with EN60079.
- 2 Surface temperature limited by materials of construction (withstand temperature)

MAXIMUM CIRCUIT LENGTH*

Catalogue Ref.	115V	230V/277V
15AHT	59m	118m
30AHT	42m	83m
50AHT	32m	64m
70AHT	26m	54m
100AHT	23m	46m
150AHT	19m	37m

^{*}For 10% volt drop variation

POWER CONVERSION FACTORS

115V HEATING TAPE	230V HEATING TAPE		
125V Multiply output by 1.18	277V Multiply output by 1.45		
120V Multiply output by 1.09	240V Multiply output by 1.09		
110V Multiply output by 0.91	220V Multiply output by 0.91		
100V Multiply output by 0.76	208V Multiply output by 0.82		

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 tapes. When used in hazardous areas, only use approved components.



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