

Electrical heating tape for process temperature maintenance of pipework and vessels in hazardous area.

Constant Wattage Heating Tape Ex

500°C



- Temperature resistant up to 500°C
- Can be cut to length without wastage
- Outputs available up to 150W/m
- Full range of controls, accessories and approvals
- Available for 220..277V AC
- 110..120V AC upon request

Description

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

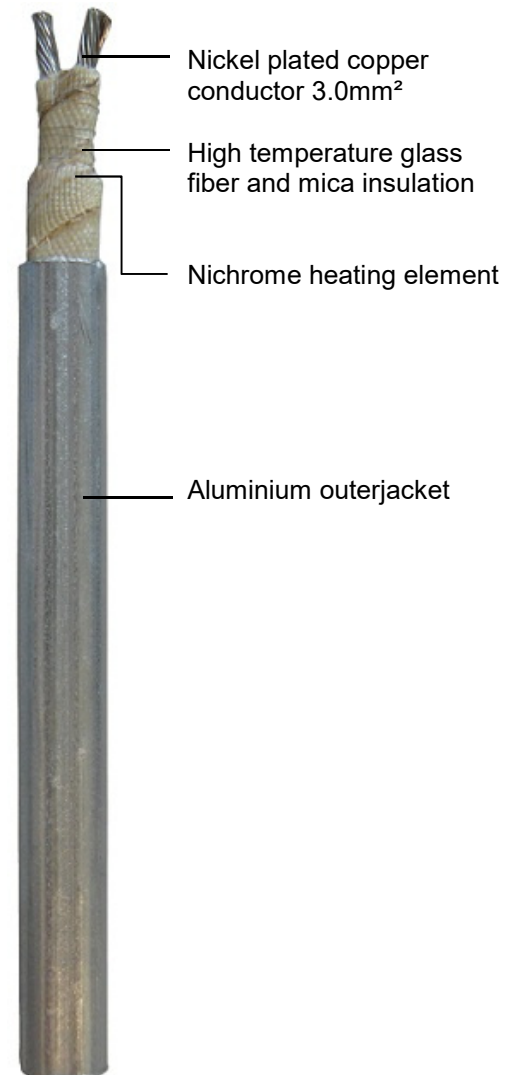
It can be cut-to-length at site and can replace mineral insulated (MI) cables for applications where the cut-to-length feature or field fabricated heating cable is preferred.

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

Because of the special construction with “heating zones” no additional cold lead is needed. From cut point to the next heating wire bonding point the heating cable remains cold and serves as cold lead.

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

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



Technical Data

Temperature Resistant:	
Continuous:	500°C
Min. Installation Temperature:	-40°C
Min. Operating Temperature:	-65°C
Power Supply:	12-277V AC
Cross Section:	3.0mm ²
Temperature Class:	T1 – T5
Dimensions Nominal (in mm):	10.0 x 7.0
Weight (Kg/100m):	16.5
Min. Bending Radius (in mm):	25

Approval

ATEX, IECEx, EAC

Structure

Heating Element:	Nickel-Chromium
Power Conductor:	Nickel Plated Copper 3mm ²
Conductor Insulation:	Glass Fiber/ Mica
Primary Insulation:	Glass Fiber/ Mica
Outerjacket:	Aluminium

Ordering Information

Example:	IPS 50 2 A
Quintherm IPS	
Output 50W/m	
Supply Voltage 220-277V (2)	
Supply Voltage 110-120V (1)	
Aluminium Outerjacket	

Accessories

Quintex offers a complete range of accessories including termination/ splice kits, end seals, junction boxes and controls. When used in hazardous areas, only use approved components.

Maximum Pipe/ Workpiece Temperature

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:

Type	T6	T5	T4	T3	T2	T1	Non-Ex (°C)
IPS152A	-	36	71	160	289	350	350
IPS302A	-	11	28	100	246	323	323
IPS502A	-	-	-	39	178	276	276
IPS1002A	-	-	-	-	48	140	140
IPS1502A	-	-	-	-	-	36	36

Maximum Circuit Length

Output (W/m)	Max. Circuit Length		Zone Length	
	115V	230V	115V	230V
15	59m	118m	1.000mm	
30	42m	83m		
50	32m	64m		
100	23m	46m		
150	19m	37m		

Power Conversion Factors

115V Heating Tape		230V Heating Tape	
125V	Factor 1.18	277V	Factor 1.45
120V	Factor 1.09	240V	Factor 1.09
110V	Factor 0.91	220V	Factor 0.91
100V	Factor 0.76	208V	Factor 0.82