


IPS...A

Electrical heating cable for process temperature maintenance of pipework and vessels in safe or hazardous area.

Constant Wattage Heating Tape

425°C

- Withstand temperatures up to 425°C
- Can be cut to length with no wastage
- Outputs available up to 150W/m
- Full range of controls, accessories and approvals
- Available for 220-277V AC (110-120V AC on request)
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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.



IPS...A

Technical Data

Max. exposure temperature:	Continuous: 340°C Intermittent: 425°C
Min. installation temperature:	-40°C (CENELEC -20°C)
Power supply:	220-277V AC
Temperature classification:	T1 – T5

Type	Nom. Dimensions (mm)	Weight Kg/100m	Min. Bending radius (mm)	Gland size
IPS...A	10,0 x 7,0	16,5	25	M20

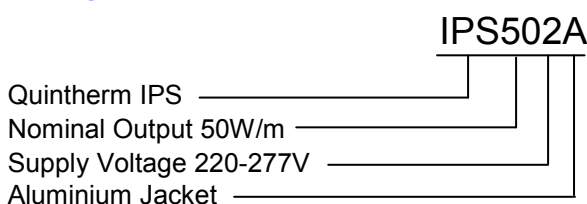
Approval Details

Approval	Certificate No.	Standards
CENELEC	SCS Ex 99E3146	EN50014 EN50019
ATEX	SIRA 02ATEX3079	EN60014 EN50019 IEC62086
IEC	SIRA 02Y3069	CEI IEC62086 IEC60079-7
FM	3009080	ANSI/IEEE Std 515
CSA	214197-1295278	C22.2 No. 130.1 C22.2 No. 130.2 C22.2 No. 138
Lloyds Register	02/00062	EN50014 EN50019 BS6351 IEEE Std 515
GOST R	POCC GB.r505.B02366	GOST R 51330.0-99 (МЭК 60079-0-98) GOST R 51330.8-99

Construction

Heating element	Nickel Chromium
Power conductors	Nickel plated copper 3mm ²
Conductor insulation	Glass/Mica
Primary insulation	Glass/Mica
Outerjacket	Aluminium

Ordering Information



CE 0518

Max. 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:

Type	T6	T5	T4	T3	T2	T1	Non Ex
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

Max. Circuit Length

Type	115V	230/277V
IPS152A	59m	118m
IPS302A	42m	83m
IPS502A	32m	64m
IPS1002A	23m	46m
IPS1502A	19m	37m

Power Conversion Factors

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

Accessories

Quintex 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.