

Electrical heating tape for temperature maintenance or frost protection of pipework or vessels in non-hazardous area.

Constant Wattage Heating Tape non-Ex

200°C



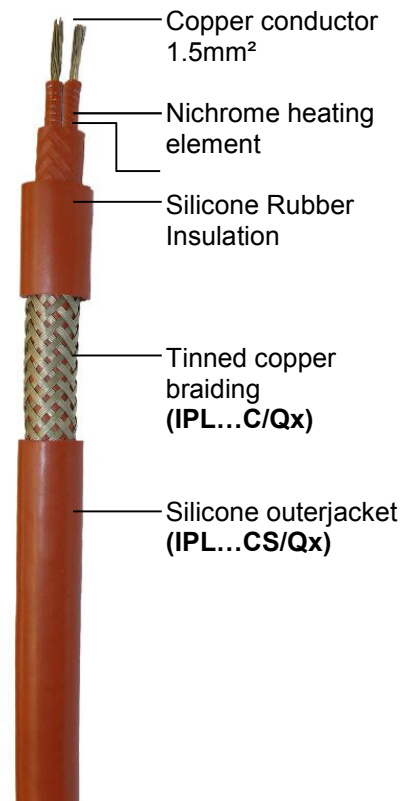
- Temperature resistant up to 200°C
- Can be cut to length without wastage
- Outputs available up to 50W/m
- High flexibility
- Available for 208 - 277V AC (110 - 120V AC upon request)

Description

IPL 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.

IPL is approved for use in non-hazardous areas. 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.



Options

- IPL...C** With tinned copper braid for mechanical protection and an effective grounding.
- IPL...CS** Silicone outerjacket over the braiding provides additional protection.
- IPL...CF** Fluoropolymer outerjacket provides protection from aggressive chemicals and vapors.

Technical Data

| | |
|--------------------------------------|--------------------|
| Max. Temperature: | |
| Power On: | see table |
| Power Off: | 200°C |
| Minimal Installation Temperature: | -40°C |
| Cross Section: | 1.5mm ² |
| Power Supply: | 208 - 277V AC |
| Max. Resistance of Protective Braid: | 18,2 Ohm/km |

Weights and Dimensions:

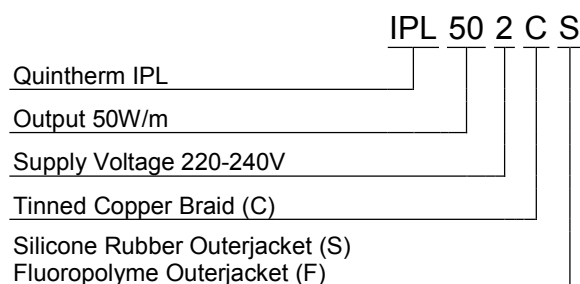
| Type | Nom. Dimensions (mm) | Weight Kg/100m | Min. Bending (mm) | Cable Glands |
|----------|----------------------|----------------|-------------------|--------------|
| IPL...C | 9.4 x 6.2 | 11.7 | 12 | M16 |
| IPL...CS | 11.4 x 8.2 | 14.3 | 15 | M20 |
| IPL...CF | 10.2 x 7.0 | 14.3 | 25 | M20 |

Structure

| | |
|-----------------------|--------------------------------------|
| Heating Element: | Nickel-Chromium |
| Power Conductors: | Tin Plated Copper 1.5mm ² |
| Conductor Insulation: | Silicone Rubber |
| Primary Insulation: | Silicone Rubber |
| Braiding: | Tinned Copper |
| Outerjacket: | Silicone Rubber or Fluoropolymer |

Ordering Information

Example:



Further Information

Please consult the installation instructions.

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 Stabilized Design) or by means of temperature controls. For worst case conditions, the temperature of steel pipes should be limited to the following levels:

| Output (W/m) | Maximum Pipe Temperature (°C) | | |
|--------------|-------------------------------|----------|----------|
| | IPL...C | IPL...CS | IPL...CF |
| 6.5 | 190 | 190 | 190 |
| 13 | 180 | 185 | 185 |
| 23 | 150 | 160 | 160 |
| 33 | 110 | 115 | 115 |
| 50 | 75 | 80 | 75 |

Maximum Circuit Length

| Output (W/m) | Max. Circuit Length | | Zone Length | |
|--------------|---------------------|------|-------------|--------|
| | 115V | 230V | 115V | 230V |
| 6.5 | 82m | 164m | 1000mm | 1500mm |
| 13 | 58m | 116m | 800mm | 1100mm |
| 23 | 44m | 87m | 900mm | 1000mm |
| 33 | 36m | 73m | 750mm | 1000mm |
| 50 | 30m | 59m | 1000mm | 1000mm |

Power Conversion Factors

| 115V Heating Tape | | 230V Heating Tape | |
|-------------------|-------------|-------------------|-------------|
| 277V | Factor 5.80 | 277V | Factor 1.45 |
| 230V | Factor 4.00 | 240V | Factor 1.09 |
| 208V | Factor 3.27 | 220V | Factor 0.91 |
| 120V | Factor 1.09 | 208V | Factor 0.82 |
| 110V | Factor 0.91 | 115V | Factor 0.25 |

Accessories

Quintex offers a complete line of accessories, temperature controller, connection sets as well as different enclosures. These products are recommended for a failure free operation.