

IPH...(NF)

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

Erfahrung ist Zukunft



Constant Wattage Heating Tape

285°C

- Temperature resistant up to 285°C
- Can be cut to length with no wastage
- Outputs available up to 70W/m
- Full range of controls, accessories and approvals
- Available in 220..240V AC (110..120V AC on request)
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Description

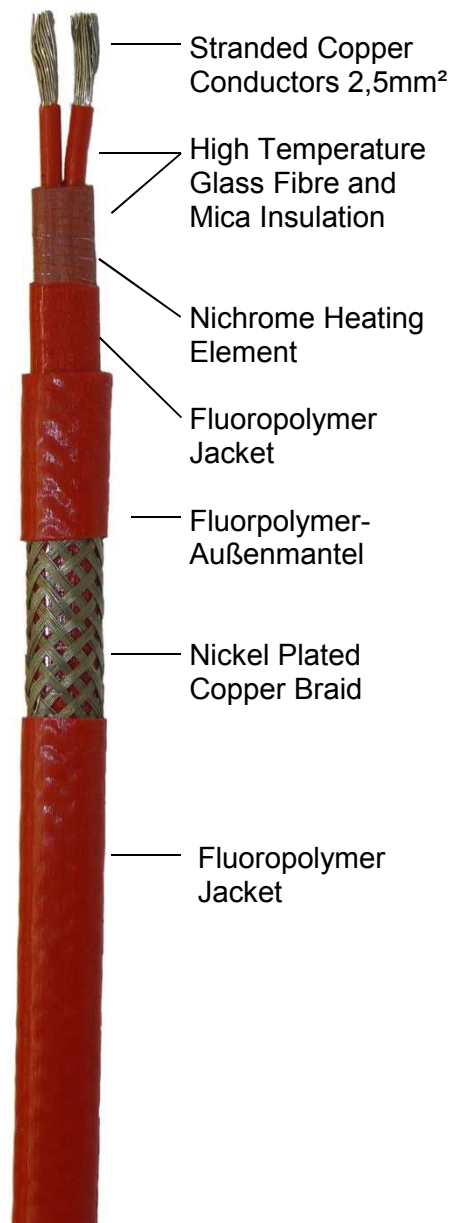
Quintherm IPH is a constant wattage heating tape that can be used for freeze protection or maintenance of process temperatures in pipework and vessels.

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

Quintherm IPH is approved for use in hazardous, safe and corrosive environments.

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

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



Options

IPH..C Nickel plated copper braid providing mechanical protection or where traced equipment does not provide an effective earth path.

IPH..NF Fluoropolymer jacket over nickel plated copper braid provides protection where corrosive chemical or vapours may be present.

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Technical Data

Maximum Temperature: 285°C (Un-energised)

Minimum Installation Temperature: -40°C

Power Supply: 220-240V AC

Temperature Classification: see table right side

Weights and Dimensions:

| Type | Nom. Dimensions (mm) | Weight kg/100m | Min. Bending radius (mm) | Gland Size |
|---------|----------------------|----------------|--------------------------|------------|
| IPH.. | 8,8 x 6,0 | 12 | 25 | M20 |
| IPH..N | 9,6 x 6,8 | 16 | 30 | M20 |
| IPH..NF | 10,3 x 7,5 | 19 | 35 | M20 |

Approvals

| Approval | Certification No. | Standards |
|----------|-------------------|--|
| ATEX | SIRA 02ATEX3078 | EN60079-0:2009 EN60079-30-1:2007 IEC 60079-31:2008 |
| CENELEC | SCS Ex 94D3114 | EN50014:1992 EN50019:1994 Zone 1 and 2 |

Approved for Zone 1 + 2

Construction

Heating Element: Nickel Chromium

Power Conductors: Nickel Plated Copper 2,5mm²

Conductor Insulation: Glass/Mica

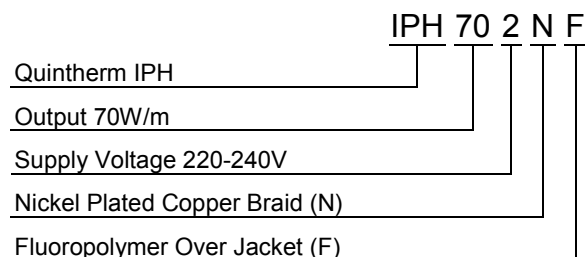
Primary Insulation: Fluoropolymer (PFA)

Braid: Nickel Plated Copper

Over Jacket: Fluoropolymer (PFA)

Ordering Information

Example:



Further Information

Please consult the appropriate termination instructions and the installation manual.

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 | Output (W/m) | T6 | T5 | T4 | T3 | T2 | T1 | Non Ex |
|---------|--------------|--------------|----|-----|-----|-----|-----|--------|
| IPH... | 10 | Not Approved | | | | | | 275 |
| | 30 | | | | | | | 239 |
| | 50 | | | | | | | 192 |
| | 70 | | | | | | | 133 |
| IPH..N | 10 | 44 | 61 | 102 | 180 | 275 | 275 | 275 |
| | 30 | - | - | 24 | 116 | 241 | 241 | 241 |
| | 50 | - | - | - | 48 | 190 | 190 | 190 |
| | 70 | - | - | - | - | 129 | 129 | 129 |
| IPH..NF | 10 | 40 | 60 | 105 | 186 | 275 | 275 | 275 |
| | 30 | - | - | 22 | 132 | 249 | 249 | 249 |
| | 50 | - | - | - | 63 | 204 | 204 | 204 |
| | 70 | - | - | - | - | 147 | 147 | 147 |

Maximum Circuit Length

| Output (W/m) | Max. Circuit Length | | Zone Length | |
|--------------|---------------------|------|-------------------------|------|
| | 115V | 230V | 115V | 230V |
| 10 | 79m | 152m | Contact us for details. | |
| 30 | 46m | 88m | | |
| 50 | 35m | 68m | | |
| 70 | 30m | 56m | | |

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 controllers, connection kits as well as junction boxes. These products are recommended for a failure free operation.