IPH…/Qx

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

Constant Wattage Heating Tape Ex

285°C

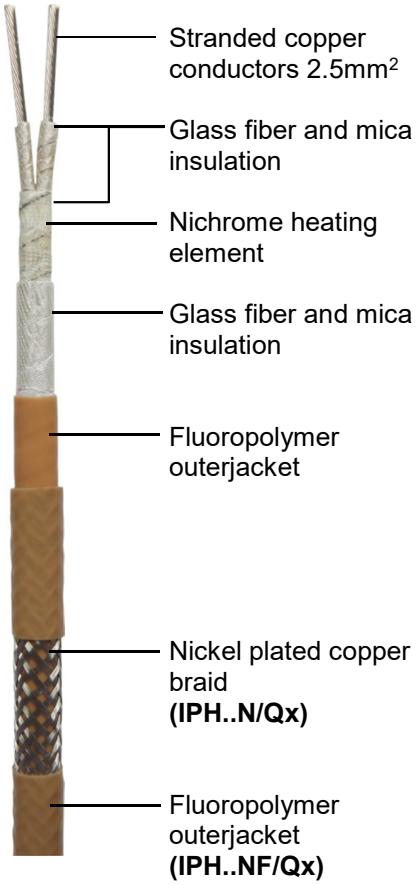
- Temperature resistant up to 285°C
- Can be cut to length without wastage
- Outputs available up to 70W/m
- Full range of controls, accessories and approvals
- Available in 220..240V AC (110..120V AC on request)

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..N A nickel plated copper braid provides mechanical protection and (where needed) an effective grounding.

IPH..NF Fluoropolymer outerjacket over nickel plated copper braid provides protection against corrosive chemicals or vapours.

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IPH.../Qx

Technical Data

Max. Temperature:
Power On: see table
Power Off: 285°C
Min. Installation Temperature: -40°C

Power Supply: 220-240V AC
Cross Section: 2.5mm²
Temperature Class: see table right side

Weight and Dimensions:

Type	Nominal 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

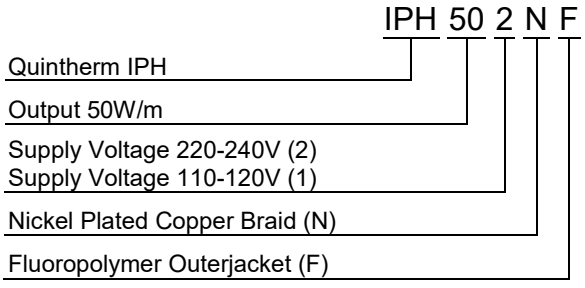
ATEX, IECEx, EAC

Structure

Heating Element: Nickle - Chromium
Power Conductor: Nickel Plated Copper 2.5mm²
Conductor Insulation: Glass Fiber - Mica
Primary Insulation: Fluoropolymer
Braid: Nickel Plated Copper
Outerjacket: Fluoropolymer

Ordering Information

Example:



Further Information

Please consult the installation instructions for IAPH4BS.

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 (°C)
IPH...	10	Not Approved						275
	30							239
	50							192
	70							133
IPH..N	10	43	60	100	181	275	275	275
	30	-	-	25	114	234	234	234
	50	-	-	-	49	186	186	186
	70	-	-	-	-	125	125	125
IPH..NF	10	39	59	106	186	275	275	275
	30	-	-	20	133	243	243	243
	50	-	-	-	64	201	201	201
	70	-	-	-	-	147	147	147

Mamimum Circuit Length

Output (W/m)	Max. Circuit Length		Zone Length	
	115V	230V	115V	230V
10	79m	152m	1.000mm	
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.

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