

HT

Electric heating tape for process temperature maintenance of pipework and vessels.

POWERHEAT

**Constant Wattage
Heating Tape**

- Withstand temperatures up to 425°C
- Outputs available to 200W/m
- Can be cut to length with no wastage
- Built in cold leads
- Full range of controls and accessories
- Available for 110/120 and 220/240VAC

FEATURES

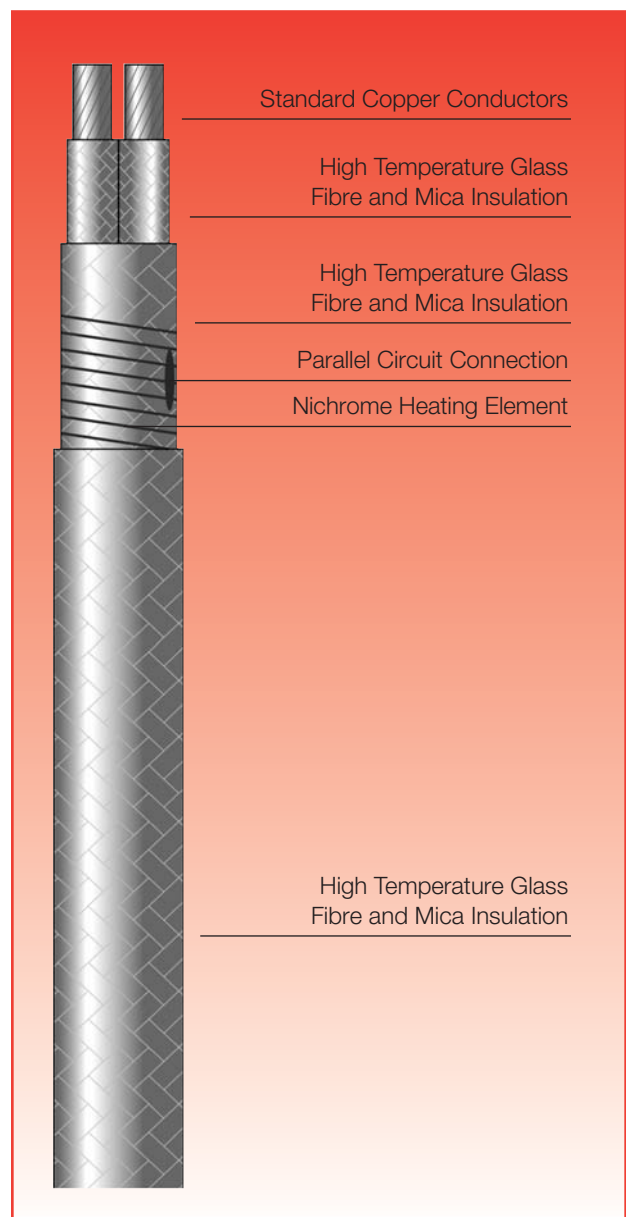
Powerheat type HT is a constant wattage heating tape that can be used for freeze protection or maintenance of process temperatures in pipework and vessels.

It is particularly suited to applications:-

- where high exposure temperature conditions apply,
- where high maintain temperatures are required,
- where high power outputs are needed, eg. for heat raising duties.

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.

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



SPECIFICATION

MAXIMUM TEMPERATURE Un-energised 425°C (797°F)

MINIMUM INSTALLATION TEMPERATURE -20°C (-4°F)

POWER SUPPLY 220 – 240 VAC
or 110 – 120 VAC

RESISTANCE TO WATER Non-waterproof

WEIGHTS & DIMENSIONS

Type Ref	Nom. Dims (mm)	Weight kg/100m	Min. Bending radius
HT	8.0 x 5.0	12	25mm

CONSTRUCTION

Heating Element Nickel Chromium

Power Conductors Nickel Plated Copper 2.5mm²

Conductor Insulation Glass/Mica

Outer jacket Glass/Mica

ORDERING INFORMATION

Example 50HT2
 Output 50W/m at 230V _____
 Powerheat type HT _____
 Supply Voltage 220 – 240 VAC _____

ACCESSORIES

Heat Trace supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls. These items are recommended for the correct operation of HT products.

MAXIMUM PIPE / WORKPIECE TEMPERATURES

The surface of the heater must not exceed the maximum withstand temperature of its constructional materials. 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 pipe temperatures of steel pipes should be limited to the following levels:-

CAT REF	NOMINAL OUTPUT (W/m)	MAXIMUM PERMISSIBLE PIPE TEMPERATURE (°C)
10HT	10	415
50HT	50	373
100HT	100	280
150HT	150	149
200HT	200	25

For conditions other than worst case, or pipes of other materials (eg. Plastic, Stainless Steel, etc.), consult Heat Trace.

Pipe temperatures much higher than those given above may be accommodated by using Heat Trace Ltd voltage compensating devices eg. POWERMATCH™ – call for further details.

Tolerances : Voltage +10%; Resistance +10%; -0%

MAXIMUM CIRCUIT LENGTH

CAT REF	OUTPUT (W/m)	MAX. CIRCUIT LENGTH *	
		115V	230V
10HT	10	72	144
50HT	50	32	64
100HT	100	23	46
150HT	150	19	37
200HT	200	16	32

* For ±10% end-to-end power output variation

POWER CONVERSION FACTORS

115V HEATING TAPE	230V HEATING TAPE
277V Multiply output by 5.80	277V Multiply output by 1.45
230V Multiply output by 4.00	240V Multiply output by 1.09
208V Multiply output by 3.27	220V Multiply output by 0.91
120V Multiply output by 1.09	208V Multiply output by 0.82
110V Multiply output by 0.91	115V Multiply output by 0.25