

Electrical heating cable for the heating of moderately long pipelines.

- Circuit lengths up to 5km.
- Single supply point minimises supply cabling costs.
- Available up to 600V AC/DC.

Power outputs up to 23W/m.

Easy installation in convenient lengths.

LONGLINE

High Effciency Series Resistance Single Conductor Heating Cable

 Full range of controls and accessories available.

FEATURES

LONGLINE HTP1F is a series resistance, single conductor heating cable supplied in multiples of 3 cables for configuring with a 3 phase heating system.

Construction

The insulated conductors are sheathed with thermoplastic for flexibility. A copper braid and overjacket can be provided for additional mechanical protection or for grounding purposes.

The Design

The number of heating cables and their conductor sizes are designed to produce the desired heat output for the circuit length required. The LONGLINE heaters are connected directly to the 3 phase mains voltage or, when required, to a step-up transformer.

Improved Safety and Efficiency

The large heated surface of LONGLINE'S flat foil construction results in lower operating temperatures than equivalent round conductor constructions. Thus, improving safety and system life. The high efficiency produces a power capability up to 23W/m.

Installation

LONGLINE cable may be straight run or spiralled to above ground pipes. For buried lines, cables are usually drawn into channel raceways within a pre-insulated pipeline system.

Minimal Supply / Distribution Costs

LONGLINE minimises the number of electrical supplies needed and so minimises supply cabling and distribution costs. Cable is provided in convenient lengths, eg. 200m for series connection at site.

LONGLINE - A COMPLETE SYSTEM

Reliability of the heating system is usually paramount. LONGLINE cables form only part of a high integrity LONGLINE heating system. This includes power control, temperature control and circuit health monitoring or alarm equipment - all specifically developed and produced by Heat Trace Limited.







SPECIFICATION

MAXIMUM TEMPERATURE	Un-energ	ised 125°C (257°F)
MINIMUM INSTAL	LATION	-40°C (-40°F)
POWER SUPPLY:	•	AC/DC 3 phase to design requirements
POWER OUTPUT:		m by design to application nts
HEATING CONDUC THICKNESSES:	.,	16mm wide 1.0, 1.25, 1.5mm 20mm wide 1.75, 2.0mm
Please note that He the required W/m c		ze conductors to provide ired circuit length.

WEIGHTS AND DIMENSIONS

16mm Foil Width

Type Ref	Dimensions (mm) +/-0.5	Weight kg/100m	Min Bend Radius
HTP1F	20.0 x 6.0	36	35mm
HTP1FC	21.0 x 7.0	44	35mm
HTP1FCT	22.0 x 8.0	65	75mm

20mm Foil Width

Type Ref	Dimensions (mm) +/-0.5	Weight kg/100m	Min Bend Radius
HTP1F	24.0 x 6.0	48	35mm
HTP1FC	25.0 x 7.0	58	35mm
HTP1FCT	27.0 x 8.0	86	75mm

CONSTRUCTION:

Over Jacket (optional)	Thermoplastic
Braid (optional)	Tinned Copper
Sheath	Thermoplastic
Primary Insulation	Thermoplastic
Heating Conductors	Copper

ORDERING INFORMATION:

Example	HTP1F-CT/1.0
Thermoplastic Sheath ————	
Single Heating Conductor ———	
Tinned Copper Braid	
Thermoplastic Overjacket ———	
Conductor Thickness (mm) ———	

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:-

HEATER NOMINAL OUTPUT	MAXIMUM PERMISSIBLE PIPE TEMPERATURE (°C)		
(W/m)	HTP1F	HTP1F-C	HTP1F-CT
10	112	109	100
15	94	95	85
23	78	80	70

For conditions other than worst case or pipes of other materials (e.g. plastic, stainless steel), consult Heat Trace.

Tolerances: Voltage + 10%; Resistance ± 10%

Pipe temperatures much higher than those given above may be accomodated by using Heat Trace Limited's voltage compensating devices. Please call for further details.



ACCESSORIES

Heat Trace supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls.



Heat Trace Ltd, Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ, England. Tel: +44 (0)1928 726451 Fax: +44 (0)1928 727846

www.heat-trace.com Ema

om Email: info@heat-trace.com

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