

- High efficiency, flat and flexible
- High power outputs available to 66W/m
- Withstand temperatures up to 230°C
- Can be cut to length without wastage
- BASEEFA approved for hazardous area use
- Full range of controls and accessories
- Available for 110/120, 220/240 and 480VAC

FEATURES

HTS is a parallel resistance heating tape producing a series of short heating zones along the length of the tape and providing a constant power output.

The principle of flat power conductors and a longitudinal heating element is unique and the subject of U.K. and U.S. patents.

The heating elements occupy almost the whole surface area of the heating tape which improves heat transfer resulting in lower sheath temperatures.

The HTS construction has a higher thermal efficiency and runs cooler than the equivalent popular spiral wound heaters.

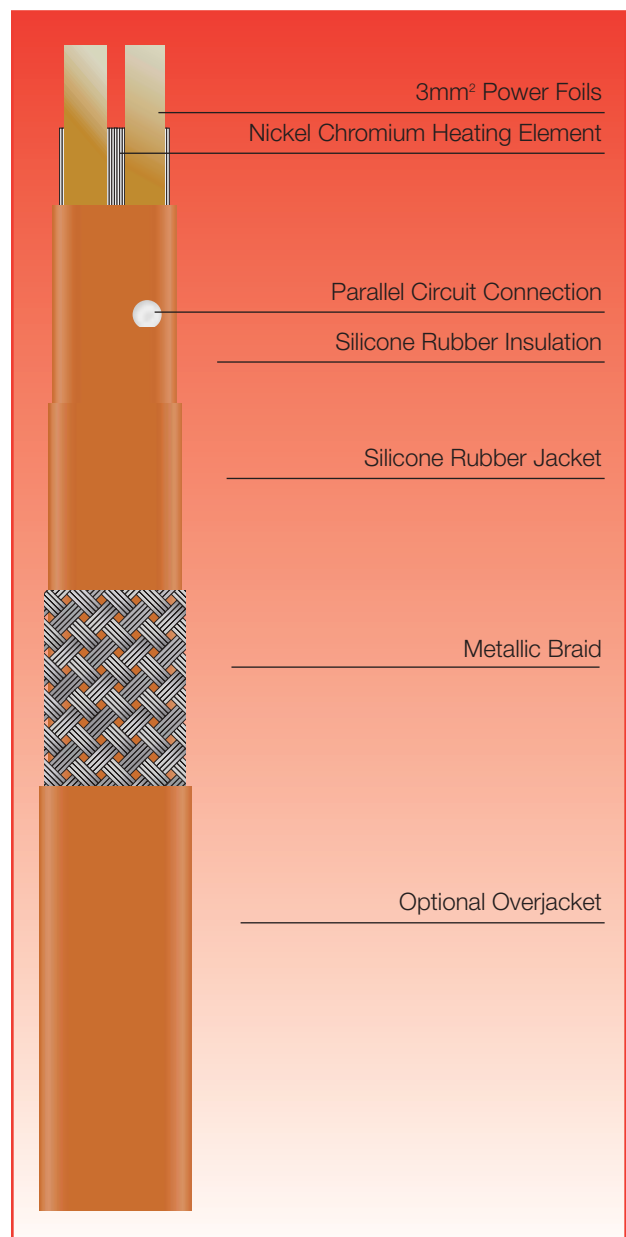
HTS is extremely flexible and easily fitted around complex pipe sections and fittings. The silicone rubber sheath has excellent resistance to moisture and most chemicals.

The constant power characteristic permits fabrication at site. HTS may be cut to length to exactly match pipe length requirements.

HTS is suitable for most medium temperature process heating duties including fuel oils, waxes, chemicals, etc.

OPTIONS

- HTS ..* Tinned copper, or stainless steel braid for where traced equipment does not provide an effective earth path.
- HTS ..*S Silicone rubber outerjacket over metallic braid is suitable for use in BASEEFA certified hazardous locations.
- HTS ..*F Fluoropolymer overjacket over metallic braid provides protection where additional corrosion protection is required.



SPECIFICATION

MAXIMUM TEMPERATURE	Un-energised	230°C (446°F) 205°C (401°F)†
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MINIMUM INSTALLATION TEMPERATURE		-80°C (-112°F) -20°C (-4°F)†
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TEMPERATURE CLASSIFICATION	230°C (T2) 205°C (T2)† T3 (200°C) T4 (135°C) T5 (100°C) or T6 (85°C)	} Devices are classified according to rated output and the conditions of use. ie. limited pipe temp.
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POWER SUPPLY	110 – 120V, 220 – 240V or 480V
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WEIGHTS AND DIMENSIONS

Type Ref	Nom. Dims. (mm)	Weight kg/100m	Min. Bending radius (mm)	Gland Size
HTS..*	22.4 x 7.9	30	15	M25
HTS..*S	24.0 x 9.5	39	20	M32
HTS..*F	23.8 x 8.9	37	25	M32

APPROVAL DETAILS

BASEEFA	
Certificate No.	Ex 88Y3314U
Standard	BS6351:1983
Area Approval	Zone 1 and 2

CONSTRUCTION

Heating Element	Nickel Chromium
Power Foils	3mm ² Nickel Plated Copper
Conductor Insulation	Silicone Rubber
Jacket	Silicone Rubber
Braid	Tinned Copper or Stainless Steel
Overjacket (optional)	Silicone Rubber or Fluoropolymer

ORDERING INFORMATION

Example	50HTS1-CS
Output 50W/m	
HEAT TRACER Type HTS	
Supply Voltage 110 – 120VAC	
Tinned Copper Braid	
Silicone Rubber overjacket	

ACCESSORIES

Heat Trace supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls. Such items carry separate approvals from the heating tape. When used in hazardous areas, only use approved components.

† Fluoropolymer overjacket

* Denotes tinned copper or stainless steel metallic braid

MAXIMUM PIPE / WORKPIECE TEMPERATURES (°C)

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:-

Area Classification	Hazardous ¹						Safe ²
	T6	T5	T4	T3	T2	T1	
Catalogue Ref							
6.5HTS..*	-	-	-	-	-	-	220
13HTS..*	-	-	-	-	-	-	213
23HTS..*	-	-	-	-	-	-	188
33HTS..*	-	-	-	-	-	-	164
50HTS..*	-	-	-	-	-	-	117
66HTS..*	-	-	-	-	-	-	46
6.5HTS..*S	67	83	120	189	220	220	220
13HTS..*S	54	70	109	180	205	205	205
23HTS..*S	-	35	52	168	184	184	184
33HTS..*S	-	30	74	154	160	160	160
50HTS..*S	-	-	39	111	111	111	111
66HTS..*S	-	-	-	-	-	-	57
6.5HTS..*F	67	83	120	189	195	195	195
13HTS..*F	54	70	109	180	190	190	190
23HTS..*F	35	52	93	168	178	178	178
33HTS..*F	-	30	74	154	160	160	160
50HTS..*F	-	-	39	111	111	111	111
66HTS..*F	-	-	-	-	-	-	57

Pipe temperatures 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%

Notes

1 Surface temperature limits in accordance with EN50014.

2 Surface temperature limited by materials of construction (withstand temperature)

MAXIMUM CIRCUIT LENGTH*

Catalogue Ref.	115V	230V	480V
6.5HTS	116m	232m	484m
13HTS	82m	164m	343m
23HTS	62m	123m	258m
33HTS	52m	103m	215m
50HTS	42m	84m	175m
66HTS	36m	73m	152m

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



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