

200°C

Electrical heating cable for freeze protection, refrigeration duties or process heating of pipework and vessels.

Micro Tracer

Constant Wattage Heating Cable

- Withstand temperatures up to 200°C.
- Available in outputs up to 50W/m.
- Can be cut-to-length at site.
- Particulary suited to small bore pipework.
- Full range of controls and accessories.
- Available for 110-120 and 208-277VAC.
- Highly flexible.

DESCRIPTION

Microtracer type **EMTS** is a medium temperature parallel resistance, constant wattage, cut-to-length heating tape that can be used for freeze protection or process heating.

It is particulary suited to refrigeration applications or for small bore instrument lines or process pipework located in non-hazardous areas.

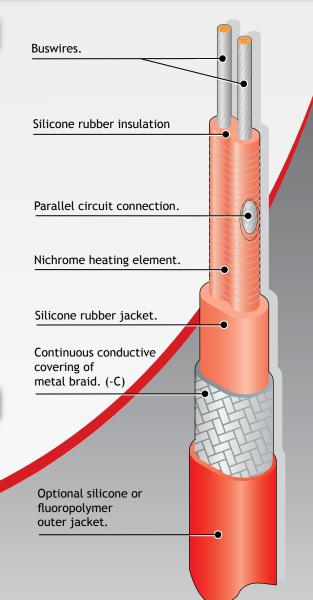
Microtracer type **EMTS** is chosen when short or moderate circuit lengths are required (select Minitracer if longer circuits are required)

The silicone rubber insulation is particulary suited to applications where great flexibility is required.

The installation of **EMTS** heating cable is quick and simple and requires no special skills or tools. Termination and power connection components are all provided in convenient kits.

OPTIONS

- EMTS..C Tinned copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.
- **EMTS..CS** Silicone rubber overjacket over tinned copper braid provides additional protection.
- EMTS..CF Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapours may be present.











SPECIFICATION

MAXIMUM TEMPERATURE:

Un-energised 200°C (392°F) Energised See table

MINIMUM INSTALLATION

TEMPERATURE: -40°C (-40°F)

POWER SUPPLY: 208 - 277V AC or 110 - 120V AC

MAXIMUM RESISTANCE

OF PROTECTIVE BRAIDING: 18.2 Ohm/km

WEIGHTS & DIMENSIONS:

, i	Dimensions nm)+/-0.5	Weight kg/100m	Min Bending radius	Gland Size
EMTSC	9.4 x 6.2	11.7	12mm	M16
EMTSCS	11.4 x 8.2	14.3	15mm	M20
EMTSCF	10.2 x 7.0	14.3	25mm	M20

CONSTRUCTION

Grade: 2.2 to BS6351: Part 1
Heating Element: Nickel Chromium
Power Conductors: Tin Plated Copper 1.5mm²
Conductor Insulation: Silicone Rubber
Jacket: Silicone Rubber
Braid: Tinned Copper
Overjacket (Optional): Silicone Rubber or
Fluoropolymer

ORDERING INFORMATION:

Example;	23 EMTS 2 - CS
Output 23W/m —	
Microtracer type EMTS ————	
Supply Voltage 220 - 240V AC —	
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. These items are recommended for the correct operation of EMTS products.

FURTHER INFORMATION:

Please consult the appropriate termination instructions and the Heat Trace Installation, Maintenance and Testing Manual (HTDIMM 010) for further details.

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 temperatures 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 followig levels:-

HEATER	MAXIMUM PERMISSIBLE PIPE TEMP (°C)			
NOMINAL OUTPUT	EMTS-C	EMTS-CS	EMTS-CF	
(W/m)				
6.5	190	190	190	
13	180	185	185	
23	150	160	160	
33	110	115	115	
50	75	80	75	

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

Pipe temperatures higher than those given above may be accommodated by using Heat Trace Ltd voltage compensating devices e.g. POWERMATCH TM Call for further details.

MAXIMUM CIRCUIT LENGTH:

OUTPUT (W/m)	MAX.CIRCU 115V	IT LENGTH* 230V	ZONE LENG 115V	GTH (NOM) 230V
6.5	82m	164m	1000mm	1500mm
13	58m	116m	800mm	1100mm
23	44m	87m	900mm	1000mm
33	36m	73m	750mm	1000mm
50	30m	59m	1000mm	1000mm

POWER CONVERSION FACTORS:

115V HEATING CABLE	230 HEATING CABLE
	240V Multiply output by 1.09



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 email: info@heat-trace.com