EMTF 200°C

htuk

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

MicroTracer
Constant Wattage Heating Cable

- Can be cut-to-length.
- Available for 110-120V AC/DC and 208-277V AC/DC.
- Power outputs up to 50W/m.
- Suitable for use in safe and corrosive areas.
- Full range of controls and accessories available.

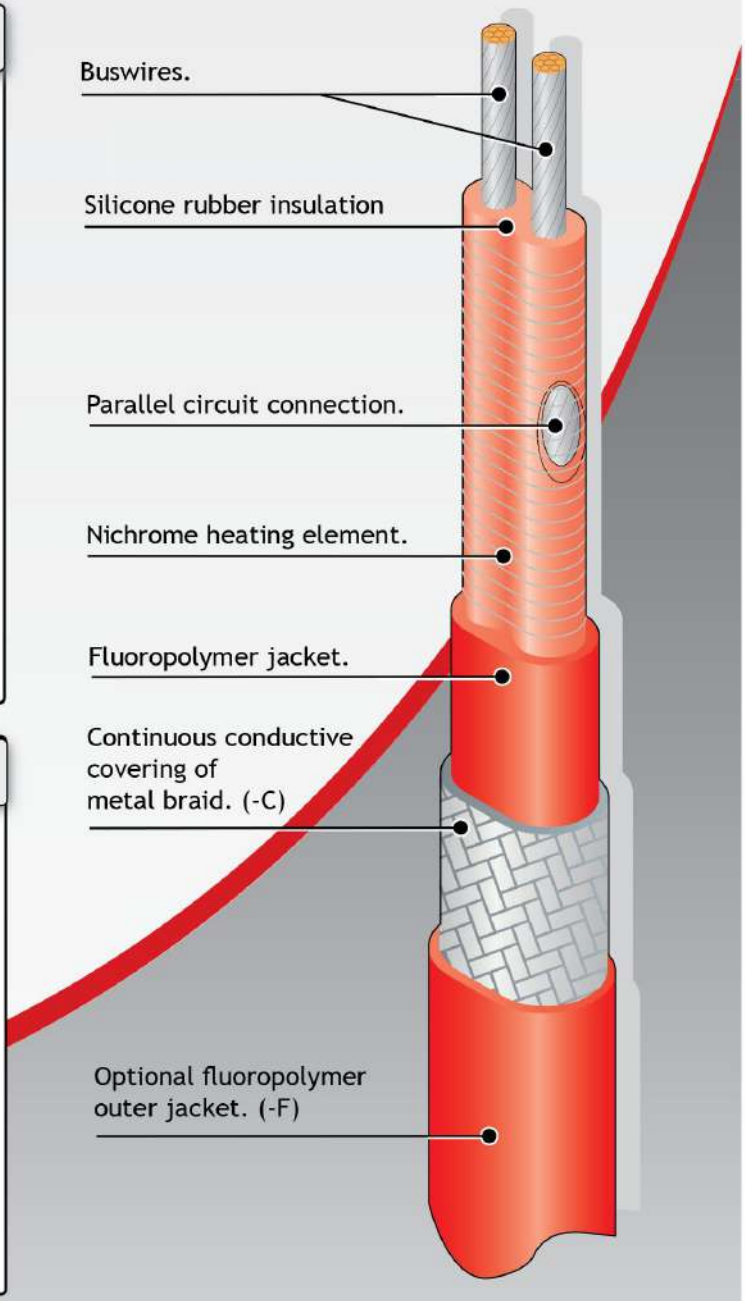
DESCRIPTION

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

It is particulary suited to small instrument impulse, analyser lines or process pipes located in non-hazardous areas.

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

The installation of **EMTF** 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

EMTF..C Tinned copper braid provides mechanical protection for base heater and may be used when traced equipment does not provide an effective earth path.

EMTF..CF Fluoropolymer overjacket over tinned copper braid provides protection where corrosive chemical solutions or vapours may be present.

HEAT TRACE

Heat Trace Ltd. Mere's Edge Chester Road Helsby, Frodsham Cheshire WA6 0DJ UK

www.heat-trace.com

CWDS0201 (22062022) Issue 1

SPECIFICATION

MAXIMUM TEMPERATURE:

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

MINIMUM INSTALLATION TEMPERATURE:

-40°C (-40°F)

POWER SUPPLY:

208 - 277V AC/DC
or 110 - 120V AC/DC

WEIGHTS & DIMENSIONS:

Type Ref	Dimensions (mm)+/-0.5	Weight kg/100m	Min Bending radius	Gland Size
EMTF..C	8.2 x 5.0	9.6	25mm	M16
EMTF..CF	9.0 x 5.8	12.0	30mm	M16

CONSTRUCTION

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

ORDERING INFORMATION:

Example; 33 EMTF 2 - CF

- Output 33W/m
- Microtracer type EMTF
- Supply Voltage 220 - 240V AC/DC
- Tinned copper braid
- Fluoropolmer 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 EMTF 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 NOMINAL OUTPUT (W/m)	MAXIMUM PERMISSIBLE PIPE TEMP (°C)	
	EMTF-C	EMTF-CF
6.5	190	190
13	175	185
23	145	155
33	100	100
50	60	70

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™ - Call for further details.

MAXIMUM CIRCUIT LENGTH:

OUTPUT (W/m)	MAX.CIRCUIT LENGTH* 115V	230V	ZONE LENGTH (NOM) 115V	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
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

htuk

HTUK Ltd, Alexandra Building Wearfield Sunderland SR5 2TA, England

Tel: +44 (0) 191 5166636 Fax: +44 (0) 191 5166686

Web : www.ht-uk.com E mail : enquiries@ht-uk.com

CWDS0201 (22062022) Issue 1