MTF

200°C

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

MiniTracer

Constant Wattage Heating Cable

- Withstand temperatures up to 200°C.
- Available in outputs up to 50W/m.
- Can be cut-to-length at site.
- High corrosion resistance.
- Full range of controls and accessories.
- Available for 110-120 and 208-277VAC.

DESCRIPTION

Minitracer type **MTF** is a parallel resistance, constant wattage, cut-to-length heating cable to BS6351 Grade 2.2 that can be used for freeze protection or process heating of pipework and vessels.

It can be cut-to-length at site if field fabricated heating cable is preferred.

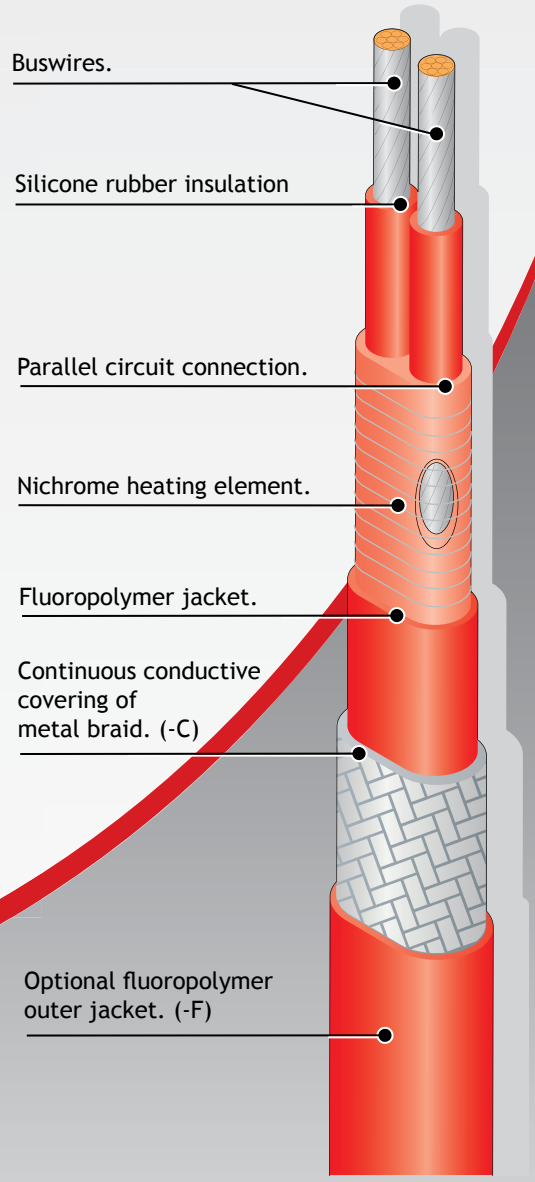
Minitracer has large 2.5mm² power busbars for long circuit lengths.

The installation of **MTF** 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

MTF..C Tinned copper braid for non-hazardous areas, or where traced equipment does not provide an effective earth path.

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



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HEAT TRACE™
SETTING THE STANDARDS LEADING THE WAY

40 Years
1974 - 2014

The Heat Tracing Authority™

CWDS0202 (Feb 17)

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:

Type Ref	Dimensions (mm)+/-0.5	Weight kg/100m	Min Bending radius	Gland Size
MTF..C	10.0 x 6.0	11.0	30mm	M20
MTF..CF	10.8 x 6.7	15.0	35mm	M20

CONSTRUCTION

Heating Element:	Nickel Chromium
Power Conductors:	Tin Plated Copper 2.5mm²
Conductor Insulation:	Silicone Rubber
Jacket:	Fluoropolymer
Braid (Optional):	Tinned Copper
Overjacket (Optional):	Fluoropolymer

ORDERING INFORMATION:

Example; 13 MTF 2 - CF

- 13 — Output 13W/m
- MTF — Minitracer type MTF
- 2 — Supply Voltage 220 - 240V AC
- C — Tinned copper braid
- F — Fluoropolymer 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 tapes. When used in hazardous areas, only use approved components.

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 following levels:-

MAXIMUM PIPE / WORKPIECE TEMPERATURES (°C)

CAT REF	NOM. OUTPUT (W/m)	MAXIMUM PIPE/WORKPIECE TEMPERATURE
MTF..C	6.5	190
	13	180
	23	155
	33	120
	50	85
MTF..CF	6.5	190
	13	185
	23	165
	33	120
	50	85

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

Notes:

1 Surface temperature limits in accordance with EN50014.
2 Surface temperature limited by materials of construction (withstand temperature).

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	106m	212m	1000mm	1500mm
13	75m	150m	800mm	1110mm
23	56m	113m	900mm	1000mm
33	47m	94m	750mm	1000mm
50	38m	76m	1000mm	1000mm

POWER CONVERSION FACTORS:

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

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