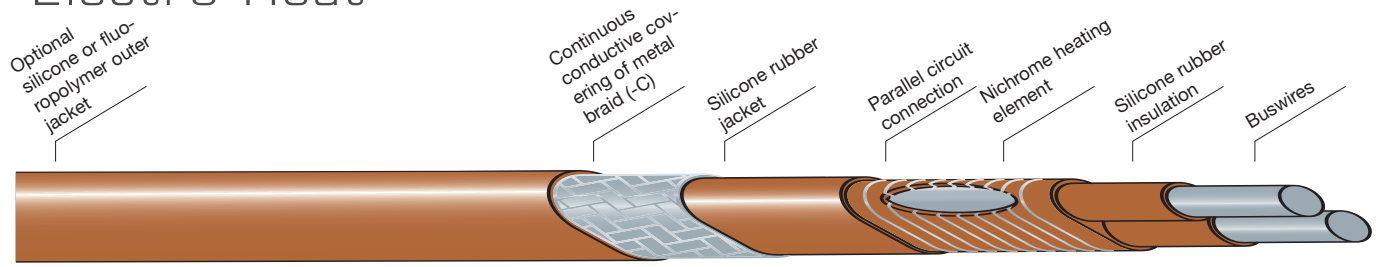
Constant Wattage Heating Tape
Type EMTS up to 200°C



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Applications:

- Can be cut-to-length
- Available for 110-120VAC and 208-277VAC
- Power outputs up to 50W/m
- Full range of controls and accessories available

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 particularly 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 particularly suited to applications where great flexibility is required.
The installation of EMTS heating tape is quick and simple and requires no special skills or tools. Termination and power connection components are all provided in convenient kits.

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 (FEP)

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 of vapours may be present.

Technical Data

Max temperature:	Un-energized 200°C (392°F) Energized See table
Min. install. temp.	-40°C (-40°F)
Power supply	208-277VAC or 110-120VAC
Max resistance of protective braid.	18.2 Ohm/km

Weight and dimensions:

Type ref	Nom. dim (mm)	Weight kg/100m	Min bending radius (mm)	Gland size
EMTS..C	9.4x6.2	11.7	12	M16
EMTS..CS	11.0x8.8	14.3	15	M20
EMTS..CF	10.2x8.0	14.3	25	M20

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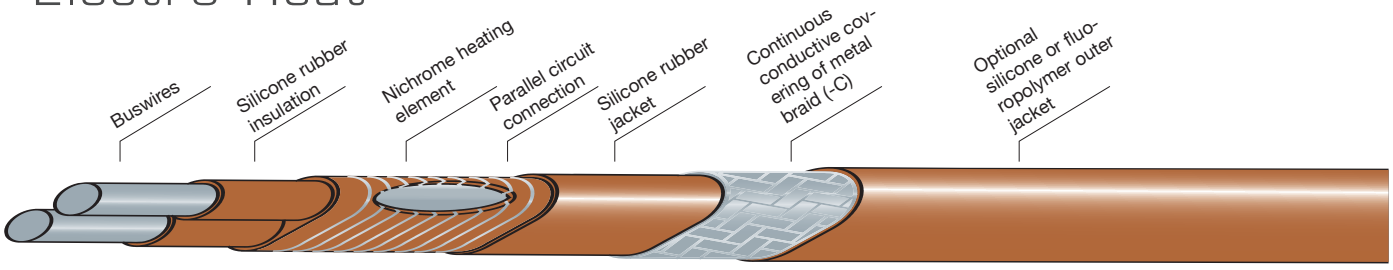

Maximum Pipe/Workpiece temperatures:
The surface of the heater must not exceed the maximum withstand temperature of its constructional materials. This is ensured by limiting the pipe or workpiece temperature to a safe level either by design calculation (a Stabilised Design) or by means of temperature controls.

For worst case conditions, the temperature of steel pipes should be limited to the following levels:

Heater nominal output (W/m)	Maximum permissible pipe temp. (°C)	
	EMTS-C	Part no.
6.5	190	
13	180	
23	150	
33	110	
50	75	
	EMTS-CS	Part no.
6.5	190	
13	185	3664213
23	160	3664223
33	115	3664233
50	80	3664250
	EMTS-CF	Part no.
6.5	190	
13	185	3664113
23	160	3664123
33	115	3664133
50	75	3664150

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

Pipe temperatures higher than those given above may be accommodated by using voltage compensating devices - call for further details.

Maximum circuit length:

Output (W/m)	Max circuit length*		Zone length (Nom)	
	115V	230V	115V	230V
6.5	82m	164m	1000mm	1500mm
13	58m	116m	741mm	1100mm
23	44m	87m	900mm	1000mm
33	36m	73m	1000mm	950mm
50	30m	59m	995mm	900mm

Power conversion factors:

115V heating tape	230V heating tape
277V multiply output by 5.80	277V multiply output by 1.45
230V multiply output by 4.00	230V multiply output by 1.09
208V multiply output by 3.27	208V multiply output by 0.91
120V multiply output by 1.09	120V multiply output by 0.82
110V multiply output by 0.91	110V multiply output by 0.25

Termination kit UTK313	Description	Part no.
EMTS..CS/CF	with cable gland M20	7399135
EMTS..CS/CF	with cable gland M20	7399120

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