

Electrical heating cable for process temperature maintenance of pipework and vessels in safe or hazardous areas

- Can be cut-to-length.
- Available for 110-120VAC and 220-240VAC.
- Power outputs up to 33W/m.
- Suitable for use in safe, hazardous and corrosive areas.

200

MINITRACER

Constant Wattage Heating Cable

 Full range of controls and accessories available.

## **DESCRIPTION**

Minitracer type MTFJ is a constant wattage heating cable that can be used for freeze protection or maintenance of process temperatures in pipes and vessels.

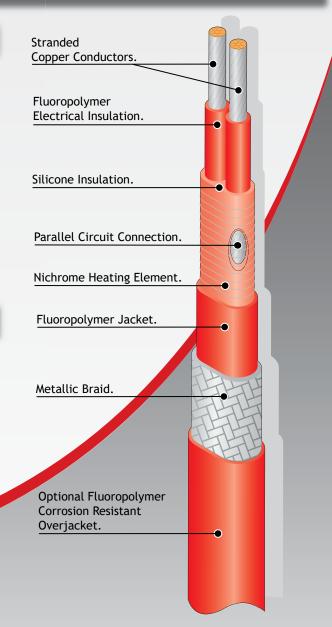
It can be cut-to-length at site if field fabricated heating cable is preferred.

MTFJ is approved for use in hazardous areas.

The installation of MTFJ heating cable is quick and simple, and requires few special skills or tools. Termination and power connection components are all provided in convenient kits.

## **OPTIONS**

MTFJC	Tinned Copper braid for non-hazardous areas, hazardous areas (Zone 1 or 2) or where traced equipment does not provide an effective earth path.
MTFJCF	Fluoropolymer over jacket over tinned copper braid provides corrosion protection for braid where chemical solutions or vapours may be present.









# **SPECIFICATION**

MAXIMUM TEMPERATU		ergised 200°C (392°F				
MINIMUM INSTALLATION TEMPERATURE:		-40°C (-40°F)				
TEMPERATU CLASSIFICA		workpiece te .e.	emperatur	e		
POWER SUP	PPLY:		12 - 27	7 VAC		
WEIGHTS &		:				
Type Ref			Min Bend radius	Gland Size		
MTFJC MTFJCF	9.1 x 5.7 9.9 x 6.5	9.0 11.0	25mm 30mm	M16 M20		
APPROVAL	DETAILS:					
Testing Aut	hority	Certificate I	No.			
ATEX	Æx)	Sira 02ATEX3077				
IEC			02Y3067			
Standard Area Approval		EN50014:1992 & EN50019:1994 Zone 1 & 2				
CONSTRUC	TION:					
Heating Ele	ement	Nickel Chromium				
Power Conductors		Tinned Plated Copper 2.5mm <sup>2</sup>				
Conductor Insulation		Fluoropolymer & Silicone Rubber				
Jacket		Fluoropolymer				
Braid		Tinned Copper				
Over Jacket (optional)		Fluoropolymer				
ORDERING	INFORMATION	l:				
Example			<u>23MTFJ 2</u>	- <u>C</u> F		
Output 23V						
Minitracer	Type MTFJ —					

### Output 23W/m \_\_\_\_\_\_ Minitracer Type MTFJ \_\_\_\_\_ Supply Voltage 220-240 VAC \_\_\_\_\_ Tinned Copper Braid \_\_\_\_\_ Fluoropolymer Overjacket \_\_\_\_\_

### ACCESSORIES:

Heat Trace supply a complete range of accessories including termination/splice kits, end seals, junction boxes and controls. Such items carry seperate approvals from the heating cable. 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 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:-

Catalogue Ref.	Nom Output	Area Classification						
	(W/m)	Ha	Hazardous			Safe <sup>2</sup>		
		Т6	Т5	T4	Т3	T2	T1	
MTFJC	6.5	54	72	115	187	190	190	190
	13	30	45	87	173	179	179	179
	23	-	-	47	144	151	151	151
	33	-	-	-	102	111	111	111
MTFJCF	6.5	54	74	121	190	190	190	190
	13	21	41	90	180	186	186	186
	23	-	-	39	152	158	158	158
	33	-	-	-	103	113	113	113

Pipe temperatures higher than those given above may be accommodated by using Heat Trace Ltd voltage compensating devices. Please 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:

OUTPUT	MAX. CIRCUIT LENGTH*		ZONE LEN	GTH (NOM.)
(W/m)	115V 230V		115V	230V
6.5	111m	212m	1000mm	1500mm
13	78m	150m	800mm	1110mm
23	59m	113m	900mm	1000mm
33	49m	94m	750mm	1000mm

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

### POWER CONVERSION FACTORS:

115V Heating Cable	230V Heating Cable
277V x output by 5.8	277V x output by 1.45
230V x output by 4.0	240V x output by 1.09
208V x output by 3.27	220V x output by 0.91
120V x output by 1.09	208V x output by 0.82
110V x ouput by 0.91	115V x output by 0.25

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