

Heating cable construction



- 1.3mm² copper conductors
- Self-regulating conductive core
- Fluoropolymer insulation (-CT) or modified polyolefin insulation (-CR)
- Copper braid (max. resistance 18.2 Ω/km)
- Fluoropolymer outer jacket (-CT) or modified polyolefin outer jacket (-CR)

Description

The MTV family of self-regulating heating cables provides the solution to freeze-protection, temperature maintenance for pipes, tanks, valves, vessels. MTV heating cables maintain process temperatures up to 110 °C and can withstand intermittent exposure to temperatures up to 130 °C.

Features

- Lower installed cost than steam tracing, less maintenance expense and less downtime.
- Easy installation due to on-site assembly and can be cut to any length (up to max circuit length) required on site with no wasted cables
- Energy efficient, automatically varies it's power output in response to pipe temperature changes
- Self-limiting, without overheating or burnout even while overlapping
- Installation in residential, commercial, industrial and Ex-area
- 5-year limited warranty against manufacturing defects

Application

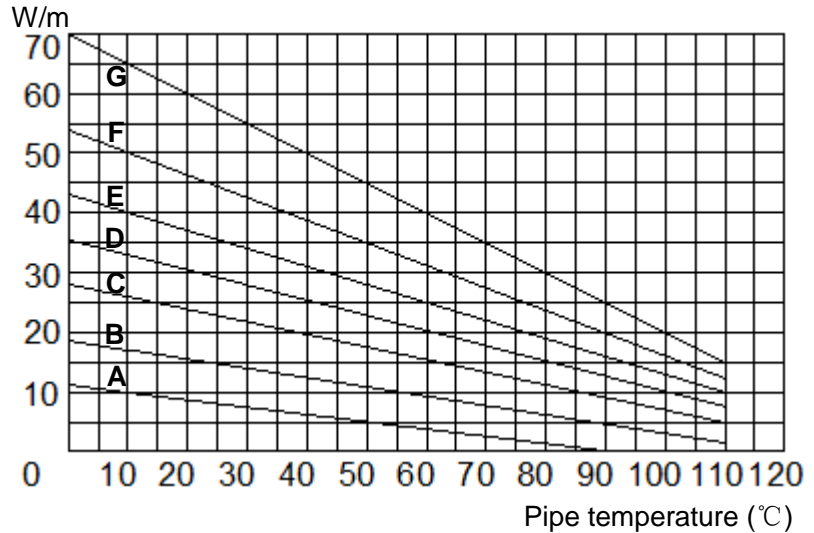
Area classification	Hazardous, Zone 1, Zone 2 (Gas), Zone 21, Zone 22 (Dust) Ordinary
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal
Chemical resistance	For organic corrosives For aggressive organics and corrosives consult your local Xuhui representative

Specifications

Supply voltage	230V Contact your local Xuhui representative for data on other voltages	
Maximum maintain or continuous exposure temperature (power on/off)	110 °C	
Maximum intermittent exposure temperature	110 °C (power on) 130 °C (power off) Maximum cumulative exposure 1000 hours	
Temperature classification	T4	
Minimum installation temperature	-40 °C	
Minimum bend radius	at 20 °C: 13mm at -40 °C: 35mm	
Product	MTV-CR	MTV-CT
Thickness (mm)	5.5	5
Width (mm)	12	11.5
Weight (g/m)		

Thermal output rating

Nominal power output W/m at 230Vac on insulated steel pipes @ 10°C		
A	3MTV2-CT	10
B	5MTV2-CT	17
C	8MTV2-CT	26
D	10MTV2-CT	33
E	12MTV2-CT	40
F	15MTV2-CT	50
G	20MTV2-CT	65



Maximum circuit length (m)

based on type “C” circuit breakers according to EN 60898

Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit (m)						
		3MTV2	5MTV2	8MTV2	10MTV2	12MTV2	15MTV2	20MTV2
		10W/m	17W/m	26W/m	33W/m	40W/m	50W/m	65W/m
16A	10°C	160	130	100	80	70	55	45
	0°C	140	110	80	65	55	45	40
	-20°C	100	80	60	50	40	35	30
	-40°C	80	65	50	40	35	30	25
20A	10°C	190	150	120	100	80	70	60
	0°C	170	140	100	85	70	60	50
	-20°C	130	110	80	65	55	50	40
	-40°C	100	80	60	50	45	40	30
25A	10°C	190	150	120	110	100	90	75
	0°C	190	150	120	100	90	75	65
	-20°C	170	135	100	85	75	65	50
	-40°C	120	95	75	60	55	50	40
32A	10°C	190	150	120	110	100	90	80
	0°C	190	150	120	110	100	90	75
	-20°C	190	150	120	100	90	80	60
	-40°C	150	120	95	80	70	65	50
40A	10°C	190	150	120	110	100	90	80
	0°C	190	150	120	110	100	90	80
	-20°C	190	150	120	110	100	90	75
	-40°C	190	150	120	110	100	85	65

The above numbers are for circuit length estimation only. For more detailed information please contact your local Xuhui representative. Xuhui requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

Components

Xuhui offers a full range of components for power connections, splices and end seals. These components must be used to ensure proper functioning of the product and compliance with electrical requirements.