



heat tracing specialists

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Romans 10:11 For whosoever believes on Him shall not be ashamed.



TSL-M SELF-REGULATING



1. 16 AWG Buss Wires
2. Conductive Core
3. Polyolefin Jacket
4. Tinned Copper Braid
5. Optional Overjacket



Heat Trace

TSL-M medium temperature self-regulating heater cable regulates it's output throughout the entire length of the circuit in response to ambient temperature changes. The self-regulating core increases it's output as ambient temperature drops; and decreases it's output as ambient temperature rises. TSL-M self-regulating cables are constructed of industrial grade materials and are approved for use in Division 1* & 2 hazardous areas. TSL-M heater cables can maintain temperatures up to 250°F and have an intermittent exposure temperature of 366°F when energized. The optional fluoropolymer jacket offers corrosion and abrasion resistance against organic & inorganic chemicals. TSL-M cables can also withstand steam purging temperatures up to 150PSIG saturated on process lines. As with all parallel type heater cables, TSL-M can be cut to length in the field using standard electrical tools and will not overheat or burnout when overlapped.

TSL-M self-regulating heater cables provide freeze protection and process temperature maintenance for fluid transport and storage systems. TSL-M heater cables are also beneficial for use where periodic cleaning of process lines is performed and various other applications requiring high heat delivery.

APPLICATIONS

Factory Mutual:

Ordinary locations

Hazardous locations

- Class 1 Div. 1* & 2 (Groups B, C, D)
- Class 2 Div. 2 (Groups F, G)
- Class 3 Div. 1* & 2

CSA:

Ordinary locations 2E, 3(A, B, C), 5(A, B)

Hazardous locations

- Class 1 Div. 1* & 2 (Groups A, B, C, D)
- Class 2 Div. 1* & 2 (Groups E, F, G)
- Class 3 Div. 1* & 2

Note: For heater cable applications refer to National Electric Code Article 427 Fixed electric heating for pipelines and vessels.

DESCRIPTION

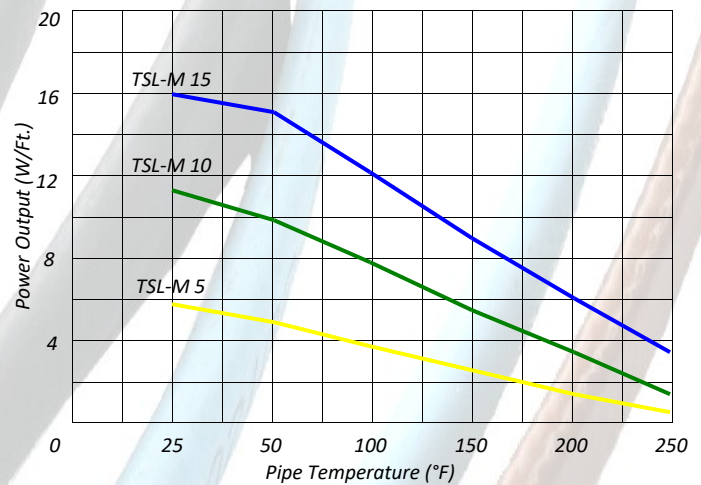
Example Configuration		TSL-M 15-1 T			
TSL-M	Wattage	Voltage	Braid/Jacket	Weight/1,000'	Dimensions
* HTSL-M	5, 10, 15	1=120V	C=Tinned Copper Braid	100 Lbs.	.600"x.250"
T Rating	T-3	2=240V	T=Fluoropolymer Jacket	137 Lbs.	.607"x.260"


* HTSL-M cables must be configured with a T jacket by default. Factory Mutual requires criteria form to be completed before ordering HTSL-M. T rating per 1999 NEC Table 500-5(d).


RPC-X	Power Connection Kit
RSL-X	20-277V Monitor Light Kit
RTC-X	Multi-Entry Kit
A419	Snow Melt Controller
AL-1	Aluminum Tape
FG-1	Fiberglass Tape
TD-1	Snap Action Thermostat
TF115	Ambient Sensing Thermostat
TRF115	Line Sensing Thermostat

Note: Not all accessories are listed. See catalog for additional listings.

Typical Heaters	208 VAC	220 VAC	240 VAC	277 VAC
TSL-M 5-2	3.90	4.43	5.00	6.25
TSL-M 10-2	8.60	9.40	10.0	11.6
TSL-M 15-2	13.8	14.2	15.0	16.3



 To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with **National Electric Code (NEC) Article 427.22** requirements, agency certifications, and local codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Ground fault protection is the responsibility of the end user and should be installed by a certified electrician.

 It is highly recommended that all heat trace systems be connected to a control device to limit inrush potential and circuit breaker issues. Control devices also extend the life of all heat trace systems.

Typical Heaters	50°F Start-Up (Ft.)				0°F Start-Up (Ft.)				-40°F Start-Up (Ft.)			
	15A	20A	30A	40A	15A	20A	30A	40A	15A	20A	30A	40A
TSL-M 5-1	150	200	240	NR	135	180	220	NR	130	170	210	NR
TSL-M 5-2	250	330	480	NR	230	305	440	NR	220	295	420	NR
TSL-M 10-1	90	120	180	NR	85	110	165	NR	80	105	160	NR
TSL-M 10-2	140	190	280	NR	130	175	260	NR	125	170	250	NR
TSL-M 15-1	70	90	130	NR	65	85	125	NR	60	80	120	NR
TSL-M 15-2	100	135	200	NR	95	125	185	NR	90	120	180	NR

NR= Not Required. Maximum circuit length has been achieved using smaller size breaker.