



& ASSOCIATES, INC.

heat tracing specialists

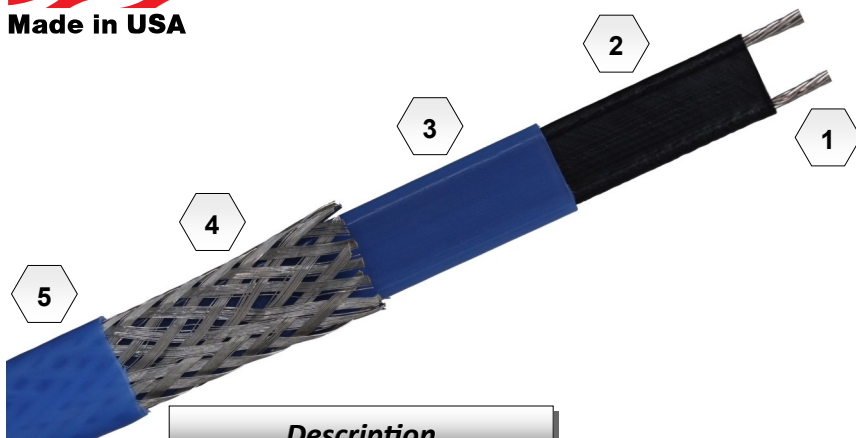


Made in USA

TSLm

MEDIUM TEMPERATURE SELF-REGULATING

Heat Trace



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



Description

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

Applications

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

Approvals

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. 2

CSA:

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

Hazardous locations

Class 1 Div. 1* & 2 (Groups B, C, D)

Class 2 Div. 1* & 2 (Groups E, F, G)

Class 3 Div. 1* & 2

* Contact representative for more information.

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

TAD & Associates, Inc.
P.O. Box 2170
Canyon Lake, Texas 78133

Phone: 830.964.4435
Fax: 830.964.4441
<http://www.tad-associates.com>

Ordering Information

Example Configuration		TSLm 15-1 T		
TSLm	Wattage	Voltage	Braid/Jacket	Weight/1,000'
* HTSLm	5, 10, 15	1=120V	C=Tinned Copper Braid	95 Lbs.
T Rating	T-3	2=240V	T=Fluoropolymer Jacket	110 Lbs.

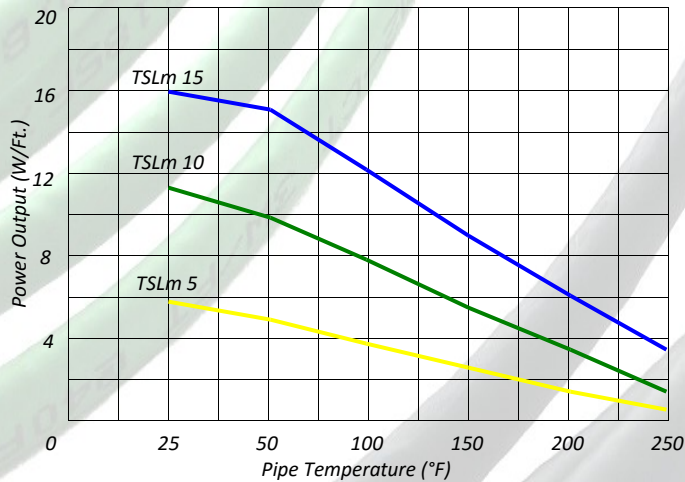
* HTSLm cables must be configured with a T jacket by default. Factory Mutual requires criteria form to be completed before ordering HTSLm. T rating per 1999 NEC Table 500-5(d).

Accessories

PL-1SR	Power Connection Kit
EC-1SR	End Termination Kit
ESK-14	Inline Splice Kit (14AWG)
TSK-14	Tee Splice Kit (14AWG)
FG-3	Fiberglass Tape (400°F)
TF115	Ambient Sensing Thermostat
TRF115	Line Sensing Thermostat
A419	Programmable Thermostat

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

Thermal Output Ratings



Output at Alternate Voltages

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

Maximum Circuit Length vs. Breaker Sizing

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
TSLm 5-1	150	200	240	NR	135	180	220	NR	130	170	210	NR
TSLm 5-2	250	330	480	NR	230	305	440	NR	220	295	420	NR
TSLm 10-1	90	120	180	NR	85	110	165	NR	80	105	160	NR
TSLm 10-2	140	190	280	NR	130	175	260	NR	125	170	250	NR
TSLm 15-1	70	90	130	NR	65	85	125	NR	60	80	120	NR
TSLm 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.