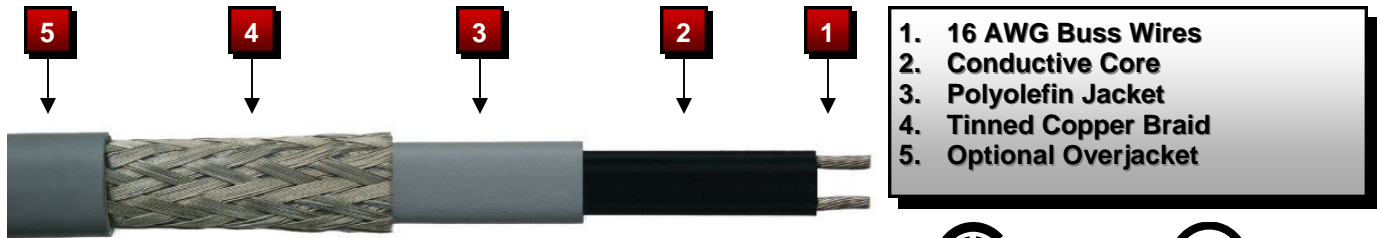




& ASSOCIATES, INC.

TSL SELF-REGULATING HEATER CABLE



Description

TSL low temperature self-regulating heater cable regulates its heat output throughout the entire length of the cable in response to ambient temperature changes. The self-regulating core increases its heat output as the ambient temperature falls; and decreases its heat output as the ambient temperature rises.

TSL self-regulating heater cables are constructed of industrial grade materials and are approved for use in Division 1* & 2 hazardous areas. **TSL** self-regulating heater cables can maintain temperature up to 150°F and have an intermittent exposure temperature of 185°F when energized. The optional TPR overjacket offers corrosion resistance against certain inorganic chemicals, and the fluoropolymer overjacket protects the cable from abrasion and impact damage while resisting both organic and inorganic chemicals.

TSL self-regulating heater cables can be cut to length in the field and will not overheat or burnout when overlapped.

Applications

TSL self-regulating heater cables provide freeze protection and process temperature maintenance for fluid transport and storage systems. **TSL** self-regulating heater cables are also ideal for roof & gutter, snow-melting and de-icing and domestic hot-water applications.

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. 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

UL:

Roof & Gutter

Hot Water Maintenance

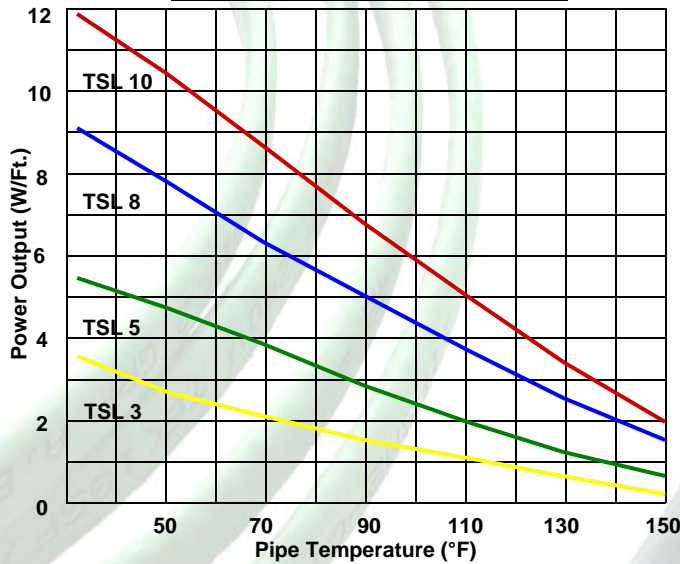
* Contact representative for more information.

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

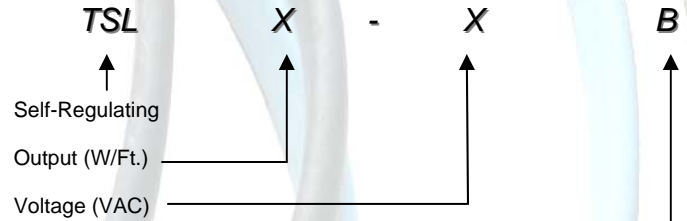
TAD & Associates, Inc.
P.O. Box 2170
Canyon Lake, Texas 78133

Phone: 830.964.4435
Fax: 830.964.4493
<http://www.tad-associates.com>

Thermal Output Ratings



Ordering Information



- TC - Tinned Copper Braid (Standard)
- CR - TPR Overjacket
- CT - Fluoropolymer Overjacket

Accessories

PL-1	Power Connection Kit
EC-1SR	End Termination Kit
ESK-14	Inline Splice Kit
TSK-14	Tee Splice Kit
AL-1	Aluminum Tape
FG-1	Fiberglass Tape
TAD-1	Snap Action Thermostat
TF115	Ambient Sensing Thermostat
TRF115	Line Sensing Thermostat

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

Watt Output at Alternate Voltages

Typical Heaters	208VAC	220 VAC	240 VAC	277 VAC
TSL 3-2	2.25	2.65	3.00	3.84
TSL 5-2	4.30	4.67	5.00	5.80
TSL 8-2	7.28	7.66	8.00	8.80
TSL 10-2	9.30	9.67	10.0	10.8

Maximum Circuit Length vs. Breaker Sizing

Typical Heaters	50°F Start-Up (Ft.)				0°F Start-Up (Ft.)				-20°F Start-Up (Ft.)			
	15A	20A	30A	40A	15A	20A	30A	40A	15A	20A	30A	40A
TSL 3-1	300	—	—	—	200	270	330	—	180	230	330	—
TSL 3-2	660	—	—	—	410	560	660	—	360	480	660	—
TSL 5-1	230	270	—	—	150	200	270	—	130	175	260	270
TSL 5-2	460	540	—	—	300	400	540	—	260	345	520	540
TSL 8-1	150	200	210	—	95	125	190	210	85	100	170	210
TSL 8-2	295	390	420	—	195	250	375	420	170	225	340	420
TSL 10-1	115	150	180	—	70	95	145	180	60	85	120	165
TSL 10-2	230	305	360	—	150	200	300	360	130	175	260	360