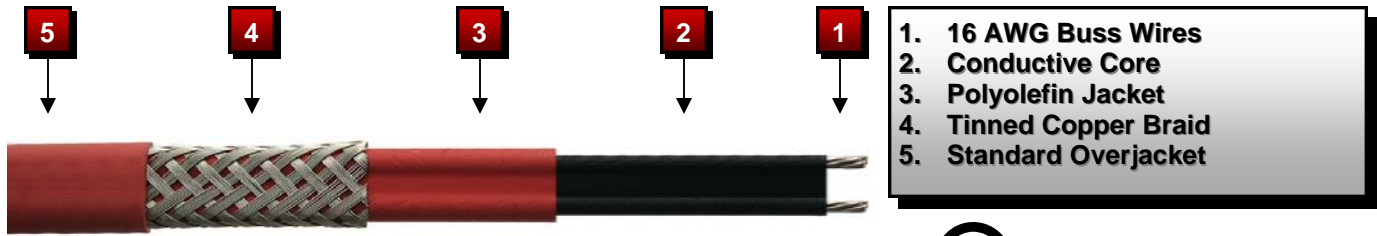




& ASSOCIATES, INC.

TSL_e SELF-REGULATING HEATER CABLE



Description

TSL_e is a light industrial/commercial grade self-regulating heater cable that can be used for freeze protection and low process temperature in various applications.

TSL_e is approved for use in hazardous and certain corrosive environments and has multinational approvals. **TSL_e** heater cables can maintain temperatures up to 149°F and have an intermittent exposure temperature of 185°F when de-energized. The standard TPR overjacket provides 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_e 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. 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. 2 (Groups A, B, C, D)

Class 2 Div. 2 (Groups F, G)

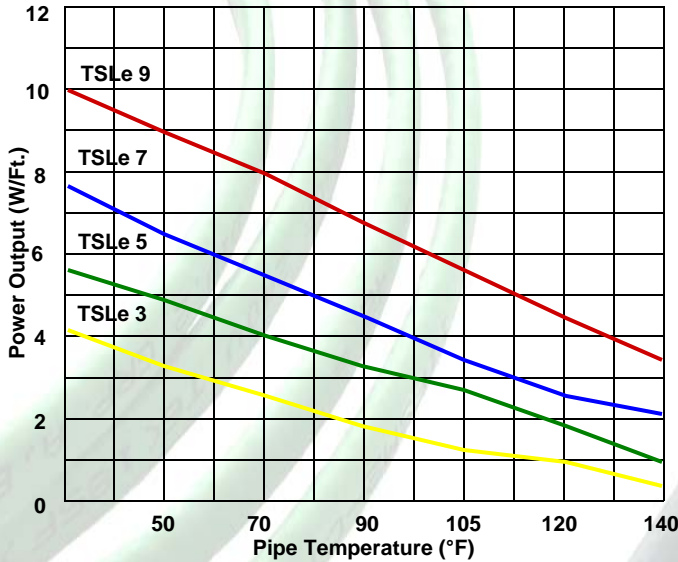
Class 3 Div. 2

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

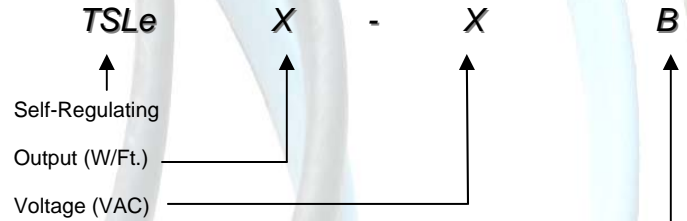
TAD & Associates, Inc.
P.O. Box 2170
Canyon Lake, Texas 78133

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Thermal Output Ratings



Ordering Information



- CR - TPR Overjacket (Standard)
- 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
TSLe 3-2	3.14	3.43	3.87	4.75
TSLe 5-2	4.50	4.87	5.50	6.58
TSLe 7-2	6.31	6.65	7.36	8.55
TSLe 9-2	8.78	9.15	9.72	10.8

Maximum Circuit Length vs. Breaker Sizing

Typical Heaters	40°F Start-Up (Ft.)				0°F Start-Up (Ft.)				-40°F Start-Up (Ft.)			
	6A	10A	16A	20A	6A	10A	16A	20A	6A	10A	16A	20A
TSLe 3-1												
TSLe 3-2	256	433	590	—	183	308	492	—	150	250	407	505
TSLe 5-1												
TSLe 5-2	203	340	479	—	157	270	426	479	138	230	367	452
TSLe 7-1												
TSLe 7-2	151	250	406	—	112	183	288	360	92	150	236	295
TSLe 9-1												
TSLe 9-2	112	190	300	335	78	131	184	216	65	111	177	216