



& ASSOCIATES, INC.

heat tracing specialists



Made in USA

TSLh

HIGH TEMPERATURE SELF-REGULATING

Heat Trace



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



Description

TSLh high 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. TSLh self-regulating heater cables are constructed of industrial grade materials and are approved for use in Division 1* & 2 hazardous areas. TSLh heater cables can maintain temperatures up to 375°F and have an intermittent exposure temperature of 450°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. TSLh heater cables can also withstand steam purging temperatures up to 190PSIG saturated on process lines. As with all parallel type heater cables, TSLh can be cut to length in the field using standard electrical tools and will not overheat or burnout when overlapped.

Applications

TSLh self-regulating heater cables provide freeze protection and process temperature maintenance for fluid transport and storage systems. TSLh 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* (Groups B, C, D)

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

Class 2 & 3 Div. 1* (Groups E, F, G)

Class 2 & 3 Div. 2 (Groups F, G)

Class 3 Div. 1* & 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. 2 (Groups F, G)

* Contact representative for more information.

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

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Ordering Information

Example Configuration		TSLh 15-1 T		
TSLh	Wattage	Voltage	Braid/Jacket	Weight/1,000'
* HTSLh	5, 10, 15, 20, 25, 30	1=120V	C=Tinned Copper Braid	85 Lbs.
T Rating	T-2C	2=240V	T=Fluoropolymer Jacket	100 Lbs.

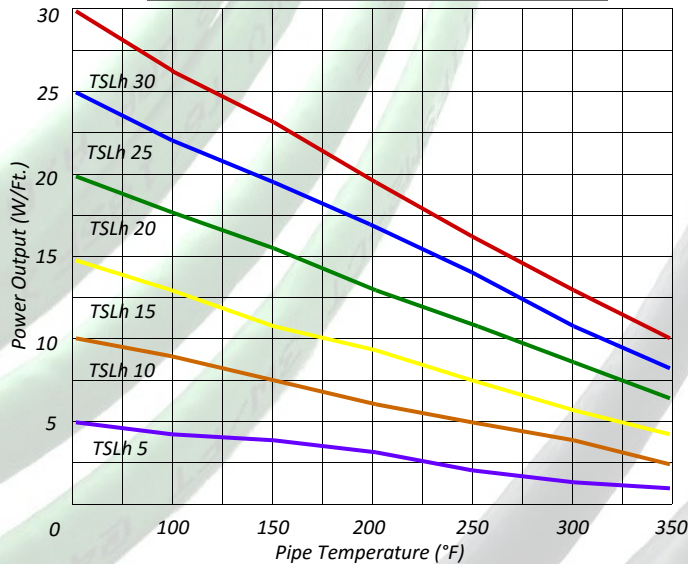
* HTSLh cables must be configured with a T jacket by default. Factory Mutual requires criteria form to be completed before ordering HTSLh. T rating per 1999 NEC Table 500-5(d).

Accessories

PC-1SR	Power Connection Kit
EC-SR	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
TSLh 10-2	8.80	9.30	10.0	11.4
TSLh 20-2	18.8	19.5	20.0	21.6
TSLh 25-2	24.1	24.7	25.0	26.1
TSLh 30-2	29.7	29.9	30.0	30.3

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
TSLh 5-1	180	240	335	NR	165	220	330	NR	150	200	300	NR
TSLh 5-2	360	480	540	NR	325	430	540	NR	290	385	540	NR
TSLh 10-1	120	160	180	NR	105	140	180	NR	90	120	180	NR
TSLh 10-2	240	320	360	NR	230	305	360	NR	225	300	360	NR
TSLh 15-1	80	105	135	NR	70	90	135	NR	60	80	120	NR
TSLh 15-2	160	210	270	NR	140	185	270	NR	120	160	240	NR
TSLh 20-1	60	90	120	NR	55	70	110	NR	50	65	120	NR
TSLh 20-2	115	150	230	NR	110	145	220	NR	105	140	210	NR
TSLh 25-1	45	60	85	NR	40	50	80	NR	40	50	80	NR
TSLh 25-2	90	120	170	NR	80	100	160	NR	80	100	160	NR
TSLh 30-1	40	50	70	NR	35	45	70	NR	35	45	70	NR
TSLh 30-2	80	100	140	NR	70	90	140	NR	70	90	140	NR

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