TRANS-HEAT, LLC.
heat tracing specialists

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

TSL-H

SELF-REGULATING

Made in USA

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

Heat Trace

DESCRIPTION

TSL-H high 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 the ambient temperature drops; and decreases it's output as the temperature rises. TSL-H self-regulating heater cables are constructed of industrial grade materials and are approved for use in Division 1 & 2 hazardous areas. TSL-H heater cables can maintain temperatures up to 375°F and have an intermittent exposure temperature of 450°F when energized. The optional fluoropolymer jacket offers corrosion & abrasion resistance against organic & inorganic chemicals. TSL-H cables can also withstand steam purging temperatures up to 190PSIG saturated on process lines. As with all parallel type heater cables, TSL-H can be cut to length in the field using standard electrical tools and will not overheat or burnout when overlapped.*

APPLICATIONS

TSL-H heater cables are ideally suited for all freeze protection and mid temperature process maintenance applications where the flow of fluid is essential. In areas requiring electric tracing such as, but not limited to: pipelines carrying chemicals, crude, emulsions, steam lines, gas compression, semiconductor, LNG, mining, power generation, combined cycle, and so much more.

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.

ORDERING INFO

Example Configuration		TSL-H 15-1 T			
TSL-H	Wattage	Voltage	Braid/Jacket	Weight/1,000'	Dimensions
* HTSL-H	5, 10, 15, 20, 25, 30	1=120V	C=Tinned Copper Braid	85 Lbs.	.485"x.215"
T Rating	T-2C	2=240V	T=Fluoropolymer Jacket	113 Lbs.	.500"x.230"

* HTSL-H (Hazardous) cables must be configured with a T jacket by default. Factory Mutual requires criteria form to be completed before ordering. T rating per 1999 NEC Table 500-5(d). ± 10% random lengths, 200' min., 200'-500' range, 300' avg.

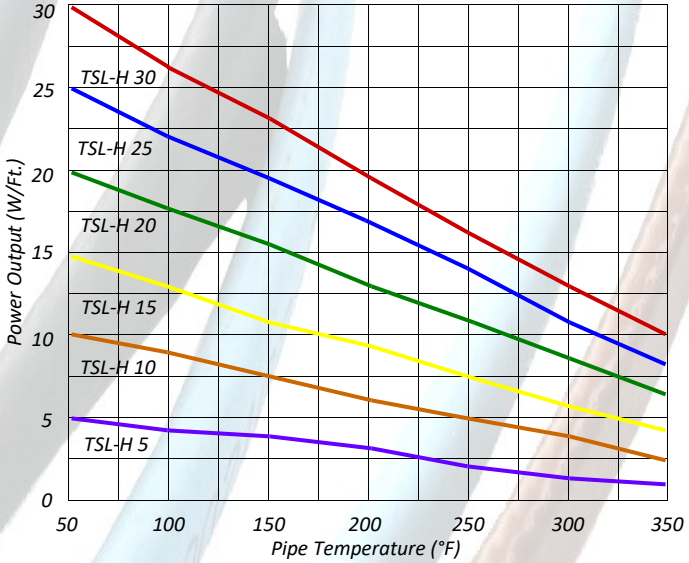
ACCESSORIES

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-3	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.

AT VOLTAGE OUTPUT

Typical Heaters	208 VAC	220 VAC	240 VAC	277 VAC
TSL-H 10-2	8.80	9.30	10.0	11.4
TSL-H 20-2	18.8	19.5	20.0	21.6
TSL-H 25-2	24.1	24.7	25.0	26.1
TSL-H 30-2	29.7	29.9	30.0	30.3



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.

MAX CIRCUIT LENGTH

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