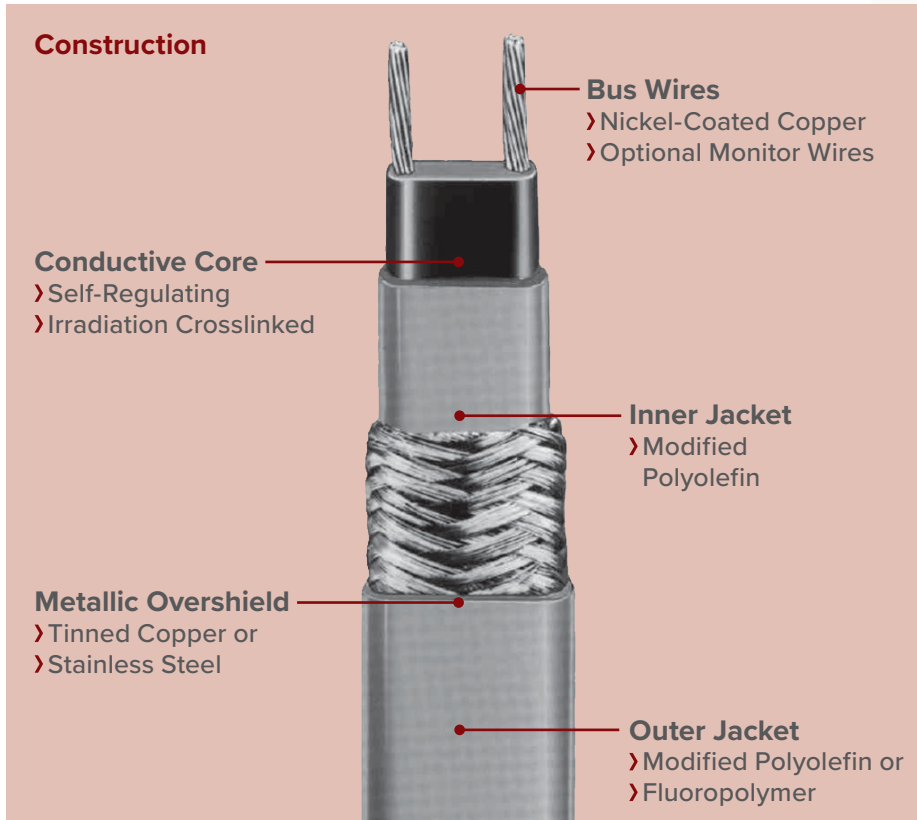


DTSL Series

Self-Regulating Heating Cable



Description

The DTSL series of self-regulating heating cables are designed to supply a specified amount of heat at any point along their length in direct response to local temperature variations. These cables can maintain temperatures up to 150°F (65°C) and survive intermittent exposure up to 185°F (85°C) with power applied.

DTSL series cables can be cut to length and terminated in the field, and will not overheat or burnout when overlapped.

Applications

The industrial-grade DTSL series cables provide freeze protection and process temperature maintenance for fluid transport and storage systems. The bus wires, jackets and metallic braids can be configured for both ordinary (non-classified) and hazardous (classified) locations, including areas where exposure to corrosive or organic materials is possible.

Performance Ratings

Output wattage:

3, 5, 8, 10 W/ft at 50°F

Supply voltages:

110-120 or 208-277VAC

Continuous maintenance temperature:

150°F (65°C) max

Intermittent exposure temperature:

185°F (85°C) max

T Rating*:

T-5 (10 W/ft), T-6 (3, 5, 8 W/ft)

Braid resistance:

Tinned copper: 0.003 Ω/ft

Stainless steel: 0.125 Ω/ft

*T-Rating per the 1999 NEC, Tables 500-5(d) and verified by FM.

Approvals/Certifications

Factory Mutual:

Ordinary locations

Hazardous locations

Class I, Div 1¹/₂, Groups B, C, D

Class II, Div 2, Groups F, G

Class III, Div 1¹/₂

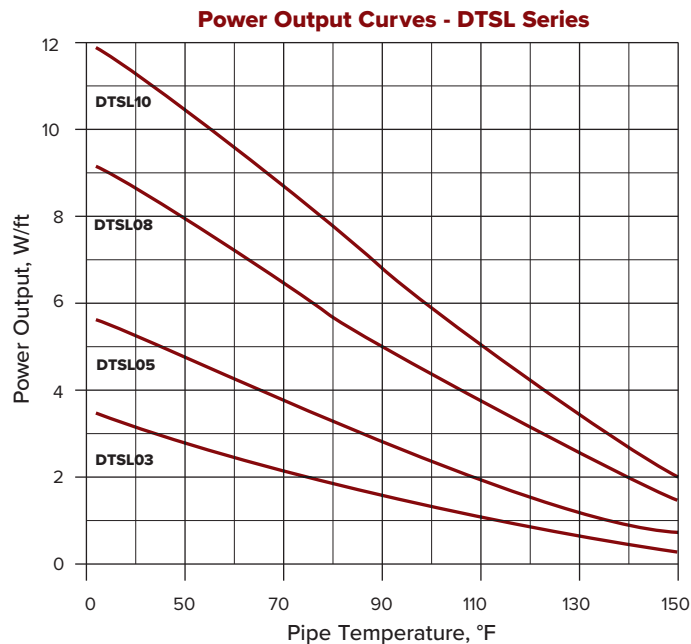
*Contact Diamond Thermal Systems representative for information on Division 1 hazardous location systems.

Accessories

Diamond Thermal Systems carries a full line of approved accessories, including power connection kits, terminations, splices, end seals, and controls.

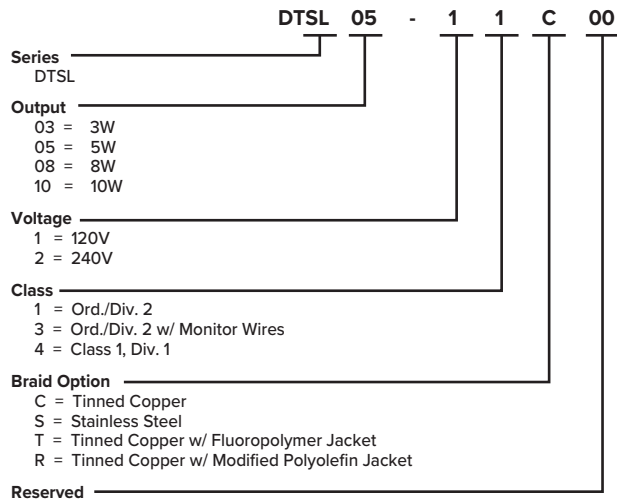
DTSL Series

Self-Regulating Heating Cable



Product Ordering Information

(Example Shown: 5-watt 120-volt, tinned copper braid)



120-Volt Breaker Sizing vs. Max Circuit Length (FT)

	15A	20A	30A	40A
DTSL03-1 if started at: 50°F	300	—	—	—
0°F	200	270	330	—
-20°F	180	230	330	—
DTSL05-1 if started at: 50°F	230	270	—	—
0°F	150	200	270	—
-20°F	130	175	260	270
DTSL08-1 if started at: 50°F	150	200	210	—
0°F	95	125	190	210
-20°F	85	100	170	210
DTSL10-1 if started at: 50°F	115	150	180	—
0°F	70	95	145	180
-20°F	60	85	120	165

240-Volt Breaker Sizing vs. Max Circuit Length (FT)

	15A	20A	30A	40A
DTSL03-2 if started at: 50°F	660	—	—	—
0°F	410	560	660	—
-20°F	360	480	660	—
DTSL05-2 if started at: 50°F	460	540	—	—
0°F	300	400	540	—
-20°F	260	345	520	540
DTSL08-2 if started at: 50°F	295	390	420	—
0°F	195	250	375	420
-20°F	170	225	340	420
DTSL10-2 if started at: 50°F	230	305	360	—
0°F	150	200	300	360
-20°F	130	175	260	360

NOTE: Recommended circuit breakers to minimize the effect of transit start-up currents. **Westinghouse:** Types BA, EB, EHB, FB, HFB. **General Electric:** E100 Type TEB, E150, Types TED, THED. **Square D:** Types EH, FAIF. The National Electric Code requires ground fault protection of equipment for each branch circuit supplying electrical heating cables or devices.

Power Adjustment Factor

Part No.	208 Volts	277 Volts
DTSL03-2	.75	1.28
DTSL05-2	.86	1.16
DTSL08-2	.91	1.10
DTSL10-2	.93	1.08

ISO 9001 REGISTERED

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