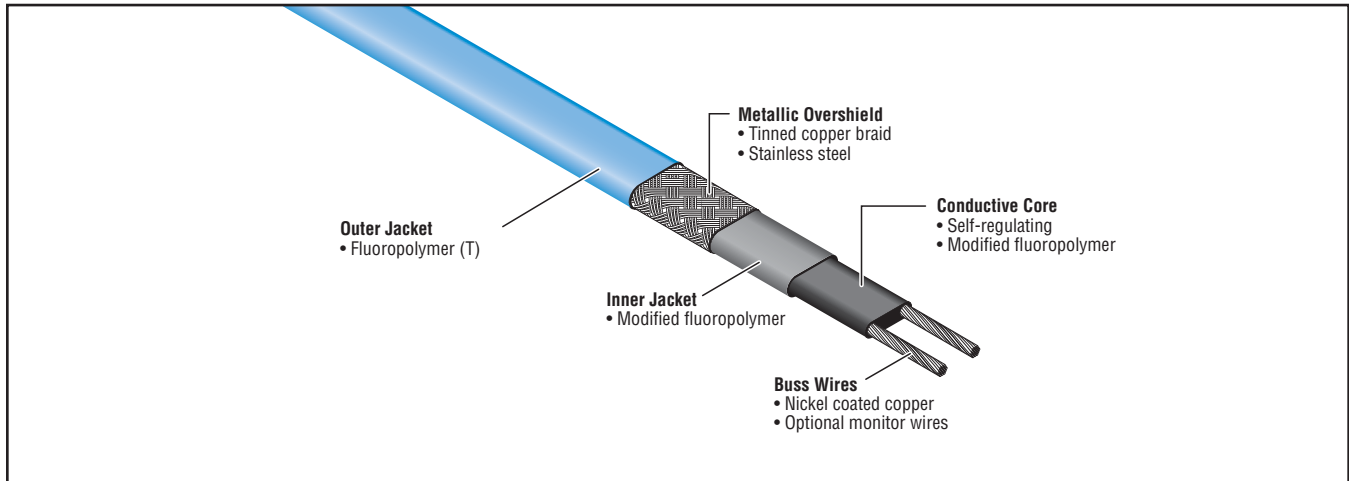




2300 Series Self-Regulating Heating Cable Medium Temperature

Data Sheet



Description

The 2300 series self-regulating heating cables offered by Heat-Line 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 250°F (120°C) and will withstand 150 psig saturated steam purging and intermittent temperature excursions to 366°F (185°C).

The 2300 series self-regulating heating cables can be cut to length and terminated in the field, and will not overheat or burnout when overlapped.

Applications

The industrial grade 2300 cables provide freeze protection and process temperature maintenance for fluid transport and storage systems requiring high levels of heat output or exposure to elevated temperatures.

The buss wires, jackets and metallic braids can be configured for both ordinary (non-classified) locations and hazardous (classified), including areas where exposure to corrosive or organic materials is possible.

Accessories

Heat-Line carries a full line of approved accessories, including power connection kits, terminations, splices, end seals, and controls.

Performance Ratings

Output wattage	5, 10, 15 W/ft @ 50°F (10°C)
Supply voltages	110 – 120 Vac or 208 – 277 Vac
Continuous maintenance temp.	250°F (120°C) max
Intermittent exposure temp.	366°F (185°C) max
T Rating*	T-3
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 and CSA.

Approvals / Certifications



Ordinary locations

Hazardous locations

Class I, Div 1* / 2, Groups A, B, C, D
Class II, Div 1* / 2, Groups E, F, G
Class III, Div 1* and 2



Ordinary locations

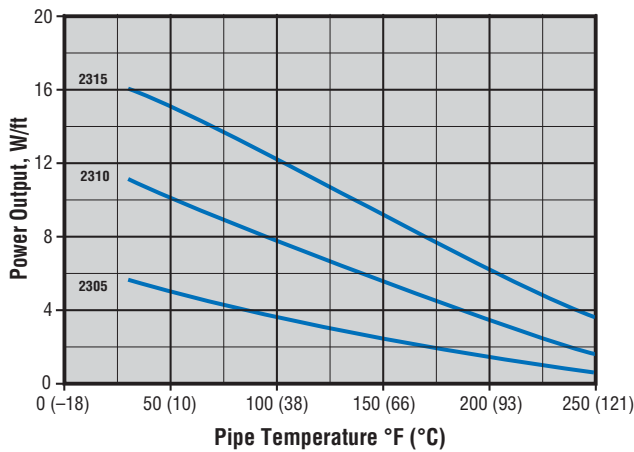
Hazardous locations

Class I, Div 1* / 2, Groups B, C, D
Class II, Div 2, Groups F, G
Class III, Div 2



*Contact Heat-Line representative for information on Division 1 hazardous location systems.

Power Output Curves



Product Ordering Information

Example: **2305 - 1 1 C 00**

Series	_____
23	2300
Output	_____
05	5 W/ft @ 50°F (16 W/m @ 10°C)
10	10 W/ft @ 50°F (33 W/m @ 10°C)
15	15 W/ft @ 50°F (49 W/m @ 10°C)
Voltage	_____
1	120 Vac (110 - 120)
2	240 Vac (208 - 277)
Class	_____
1	Ordinary/Div. 2
3	Ordinary/Div. 2 w/monitor wires
4	Class I, Div. 1
Braid Option	_____
C	Tinned copper
S	Stainless steel
T	Tinned copper w/fliouropolymer jacket
Reserved	_____

120 Volt Breaker Sizing vs. Max Circuit Length (ft)

		15A	20A	30A
2305-1 If started at:	50°F (10°C)	150	200	240
	0°F (-17°C)	135	180	220
	-40°F (-40°C)	130	170	210
2310-1 If started at:	50°F (10°C)	90	120	180
	0°F (-17°C)	85	110	165
	-20°F (-29°C)	80	105	160
2315-1 If started at:	50°F (10°C)	70	90	130
	0°F (-17°C)	65	85	125
	-20°F (-29°C)	60	80	120

240 Volt Breaker Sizing vs. Max Circuit Length (ft)

		15A	20A	30A
2305-2 If started at:	50°F (10°C)	250	330	480
	0°F (-17°C)	230	305	440
	-20°F (-29°C)	220	295	420
2310-2 If started at:	50°F (10°C)	140	190	280
	0°F (-17°C)	130	175	260
	-20°F (-29°C)	125	170	250
2315-2 If started at:	50°F (10°C)	100	135	200
	0°F (-17°C)	95	125	185
	-20°F (-29°C)	90	120	180

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. **The Canadian Electrical Code and 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
2305-2	0.78	1.25
2310-2	0.86	1.16
2315-2	0.92	1.09

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