2000 Series

Self-Regulating Heating Cable

Heat Trace Products, LLC
233 Florence Street
Leominster, MA 01453
ISO 9001 REGISTERED

Construction

Description

The 2000 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 375°F (190°C) and will withstand 190 psig saturated steam purging and intermittent temperature excursions to 450°F (232°C) with power applied.

2000 series cables can be cut to length and terminated in the field, and will not overheat or burnout when overlapped.

Applications

The industrial grade 2000 cables provide freeze protection and process temperature maintenance for fluid transport and storage systems requiring very high levels of heat output or exposure to elevated temperatures.

The bus 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.

Performance Ratings

Output wattage:
5 through 30w/ft @ 50°F
(other wattages also available)

Supply voltages:
110 - 120 or 208V - 277Vac

Continuous maintenance temperature:
375°F (190°C) max

Intermittent exposure temperature:
450°F (232°C) max

T Rating*:
T-2C

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

Factory Mutual:
Ordinary locations
Hazardous locations
Class I, Div 1*, Groups B, C, D
Class I, Div 2, Groups A, B, C, D
Class II/III, Div 1*, Groups E, F, G
Class II/III, Div 2, Groups F, G
Class I, Zone 1*, Group IIB + H2,
Class I, Zone 2, Group IIC

CSA:
Ordinary locations 3(A,B,C), 5(A,B)
Hazardous locations
Class I, Div 1* / 2, Groups B, C, D
Class I, Div 2, Groups B, C, D
Class II, Div 2, Groups F, G

SEMCO - (CE mark):

*Contact Heat Trace Products representative for information on Division1 hazardous location systems.

Accessories

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

Visit Us At: www.rscc-heattrace.com

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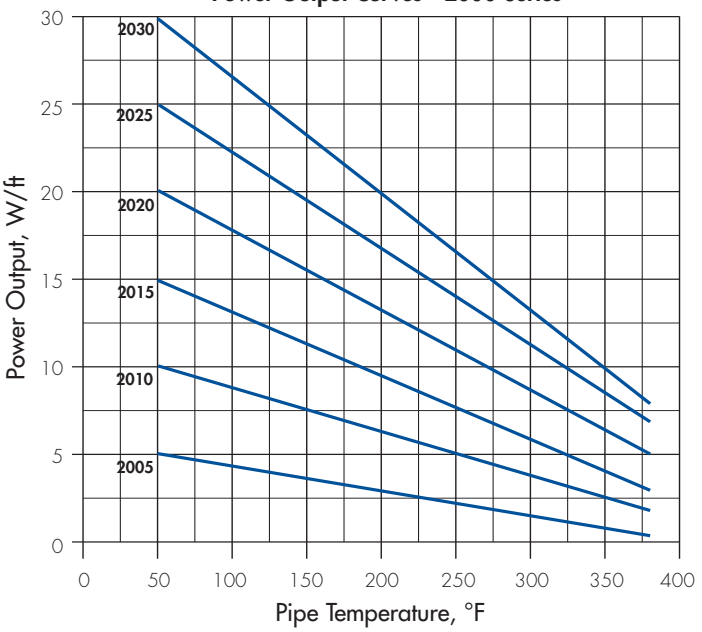
Power Output Curves - 2000 Series



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

Series	Starting Temp.	15A	20A	30A
2005-1	50°F (10°C)	180	240	335
	0°F (-20°C)	165	220	330
	-50°F (-45°C)	150	200	300
2010-1	50°F (10°C)	120	160	180
	0°F (-20°C)	105	140	180
	-50°F (-45°C)	90	120	180
2015-1	50°F (10°C)	80	105	135
	0°F (-20°C)	70	90	135
	-50°F (-45°C)	60	80	120
2020-1	50°F (10°C)	60	90	120
	0°F (-20°C)	55	70	110
	-50°F (-45°C)	50	65	100
2025-1	50°F (10°C)	45	60	85
	0°F (-20°C)	40	50	80
	-50°F (-45°C)	40	50	80
2030-1	50°F (10°C)	40	50	70
	0°F (-20°C)	35	45	70
	-50°F (-45°C)	35	45	70

Power Adjustment Factor

Part No.	208 Volts	277 Volts
2010-2	.88	1.14
2020-2	.94	1.08
2030-2	.99	1.01

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

Series	Starting Temp.	15A	20A	30A
2005-2	50°F (10°C)	360	480	540
	0°F (-20°C)	325	430	540
	-50°F (-45°C)	290	385	540
2010-2	50°F (10°C)	240	320	360
	0°F (-20°C)	230	305	360
	-50°F (-45°C)	225	300	360
2015-2	50°F (10°C)	160	210	270
	0°F (-20°C)	140	185	270
	-50°F (-45°C)	120	160	240
2020-2	50°F (10°C)	115	150	230
	0°F (-20°C)	110	145	220
	-50°F (-45°C)	105	140	210
2025-2	50°F (10°C)	90	120	170
	0°F (-20°C)	80	100	160
	-50°F (-45°C)	80	100	160
2030-2	50°F (10°C)	80	100	140
	0°F (-20°C)	70	90	140
	-50°F (-45°C)	70	90	140

Product Ordering Information

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

20 05 - 1 1 C 00

Series
20 = 2000

Output
05 = 5w 10 = 10w
15 = 15w 20 = 20w
25 = 25w 30 = 30w

Voltage
1 = 120V
2 = 240V

Class
1 = Ord./Div. 2
3 = Ord./Div.2 w/ monitor wires
4 = Class 1, Div. 1

Braid Option
C = Tinned Copper T = Tinned Copper w/Fluoropolymer Jacket
S = Stainless Steel F = Stainless Steel w/Fluoropolymer Jacket
K = Nickel Copper M = Nickel Copper w/Fluoropolymer Jacket

Reserved

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.

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