

2300 Series

Dekoron® Self-Regulating Heating Cable

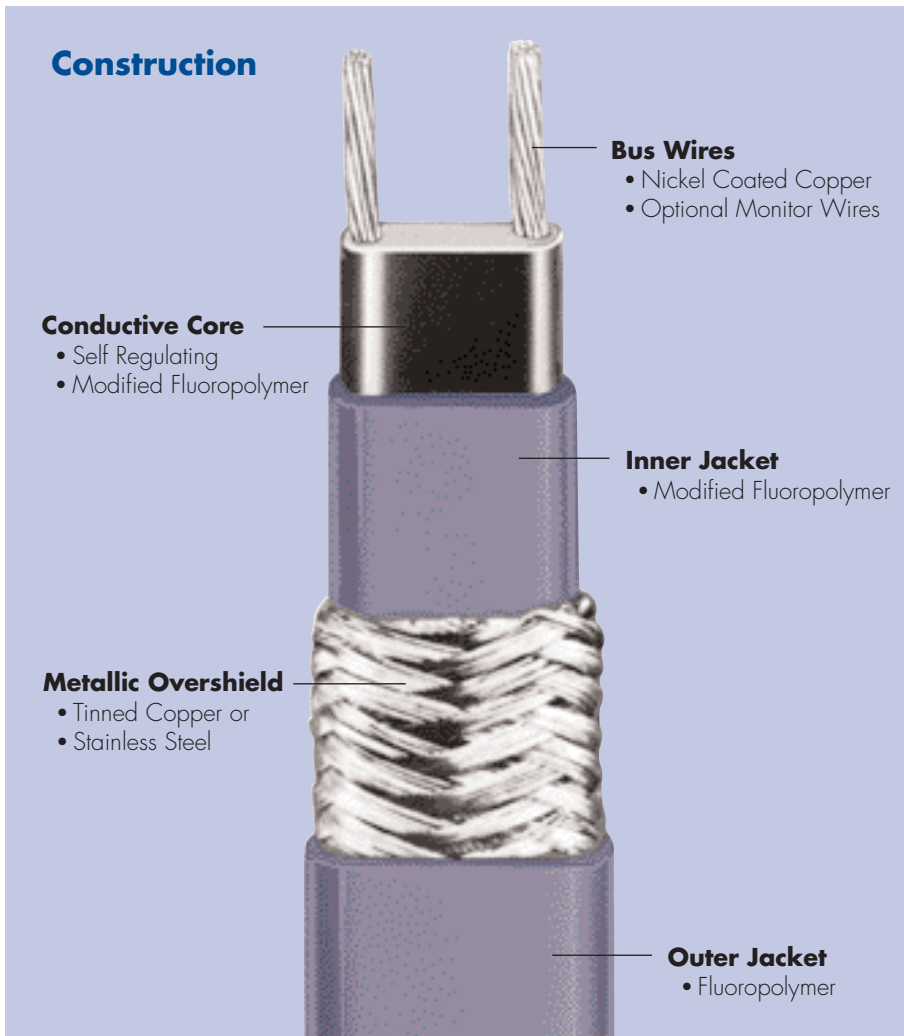
Heat Trace Products, LLC



233 Florence Street
Leominster, MA 01453

ISO 9001 REGISTERED

Construction



Description

The 2300 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 250°F (120°C) and will withstand 150 psig saturated steam purging and intermittent temperature excursions to 366°F (185°C).

2300 series 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 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, 10, 15 w/ft @ 50°F

Supply voltages:

110 - 120 or 208V - 277Vac

Continuous maintenance temperature:

250°F (120°C) max

Maximum exposure temperature:

366°F (185°C)

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

Factory Mutual:

Ordinary locations

Hazardous locations

Class I, Div 1 * / 2, Groups B, C, D

Class II, Div 2, Groups F, G

Class III, Div 2

CSA:

Ordinary locations STD-130-03-G,-W,-S

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

SEMCO - (CE mark):

*Contact Heat Trace Products representative for information on Division 1 hazardous location systems.

Accessories

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

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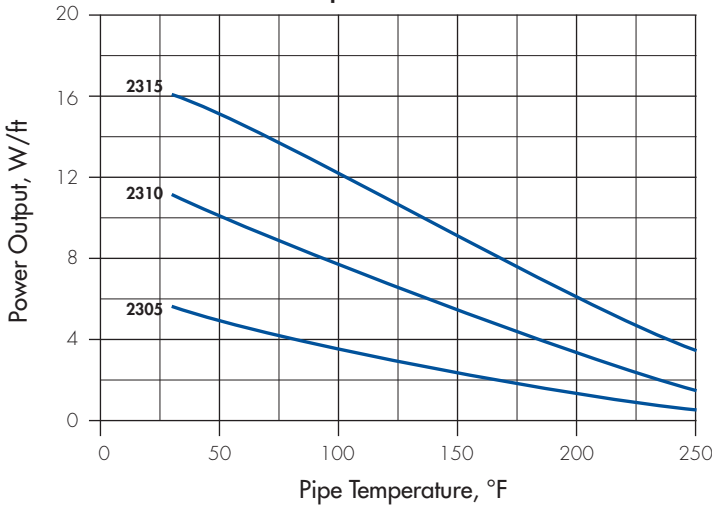
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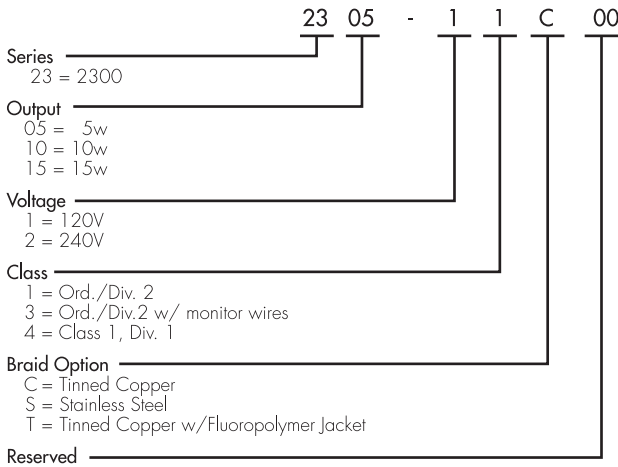
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Power Output Curves - 2300 Series



Product Ordering Information

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



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

| Max. Circuit Length (Ft.) | 15A | 20A | 30A |
|-------------------------------------|-----|-----|-----|
| 2305-1 If started at: @ 50°F (10°C) | 150 | 200 | 240 |
| @ 0°F (-20°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 (-20°C) | 85 | 110 | 165 |
| @ -40°F (-40°C) | 80 | 105 | 160 |
| 2315-1 If started at: @ 50°F (10°C) | 70 | 90 | 130 |
| @ 0°F (-20°C) | 65 | 85 | 125 |
| @ -40°F (-40°C) | 60 | 80 | 120 |

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

| Max. Circuit Length (Ft.) | 15A | 20A | 30A |
|-------------------------------------|-----|-----|-----|
| 2305-2 If started at: @ 50°F (10°C) | 250 | 330 | 480 |
| @ 0°F (-20°C) | 230 | 305 | 440 |
| @ -40°F (-40°C) | 220 | 295 | 420 |
| 2310-2 If started at: @ 50°F (10°C) | 140 | 190 | 280 |
| @ 0°F (-20°C) | 130 | 175 | 260 |
| @ -40°F (-40°C) | 125 | 170 | 250 |
| 2315-2 If started at: @ 50°F (10°C) | 100 | 135 | 200 |
| @ 0°F (-20°C) | 95 | 125 | 185 |
| @ -40°F (-40°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.

Power Adjustment Factor

| Part No. | 208 Volts | 277 Volts |
|----------|-----------|-----------|
| 2305-2 | .78 | 1.25 |
| 2310-2 | .86 | 1.16 |
| 2315-2 | .92 | 1.09 |

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