

2700 Series

Dekoron® Self-Regulating Heating Cable



Construction

Conductive Core

- Self Regulating
- Irradiation Crosslinked

Bus Wires

- Nickel Coated Copper
- Optional Monitor Wires

Inner Jacket

- Modified Polyolefin

Metallic Overshield

- Tinned Copper or
- Stainless Steel

Outer Jacket

- Modified Polyolefin or
- Fluoropolymer

Performance Ratings

Output wattage:

3, 5, 8, 10 w/ft @ 50°F

Supply voltages:

110 - 120 or 208V - 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 /ft

Stainless steel: 0.125 /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 1* and 2

CSA:

Ordinary locations 2E, 3(A,B,C), 5(A,B)

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

UL:

Roof and Gutter

Hot Water Maintenance

SEMCO - (CE mark):

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

Accessories

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

Description

The 2700 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.

2700 cables can be cut to length and terminated in the field, and will not overheat or burnout when overlapped.

Applications

The industrial grade 2700 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.

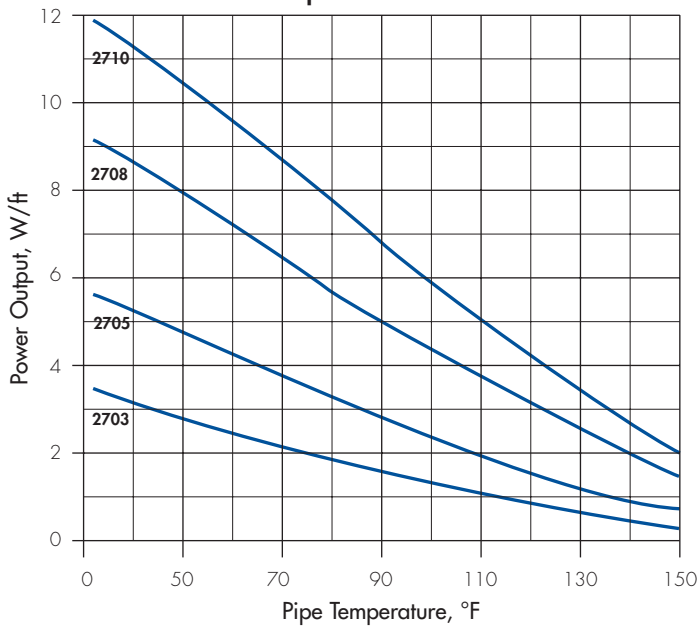
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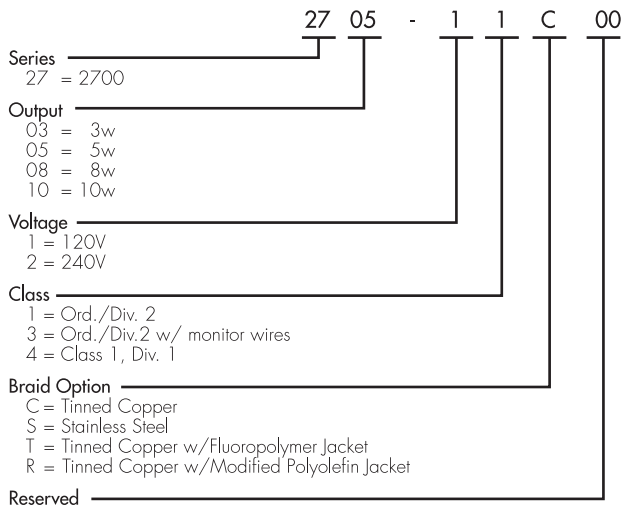


Power Output Curves - 2700 Series



Product Ordering Information

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



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

| | 15A | 20A | 30A | 40A |
|----------------------------|-----|-----|-----|-----|
| 2703-1 If started at: 50°F | 300 | — | — | — |
| 0°F | 200 | 270 | 330 | — |
| -20°F | 180 | 230 | 330 | — |
| 2705-1 If started at: 50°F | 230 | 270 | — | — |
| 0°F | 150 | 200 | 270 | — |
| -20°F | 130 | 175 | 260 | 270 |
| 2708-1 If started at: 50°F | 150 | 200 | 210 | — |
| 0°F | 95 | 125 | 190 | 210 |
| -20°F | 85 | 100 | 170 | 210 |
| 2710-1 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 |
|----------------------------|-----|-----|-----|-----|
| 2703-2 If started at: 50°F | 660 | — | — | — |
| 0°F | 410 | 560 | 660 | — |
| -20°F | 360 | 480 | 660 | — |
| 2705-2 If started at: 50°F | 460 | 540 | — | — |
| 0°F | 300 | 400 | 540 | — |
| -20°F | 260 | 345 | 520 | 540 |
| 2708-2 If started at: 50°F | 295 | 390 | 420 | — |
| 0°F | 195 | 250 | 375 | 420 |
| -20°F | 170 | 225 | 340 | 420 |
| 2710-2 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 |
|----------|-----------|-----------|
| 2703-2 | .75 | 1.28 |
| 2705-2 | .86 | 1.16 |
| 2708-2 | .91 | 1.10 |
| 2710-2 | .93 | 1.08 |

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ISO 9001/QS 9000 REGISTERED

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