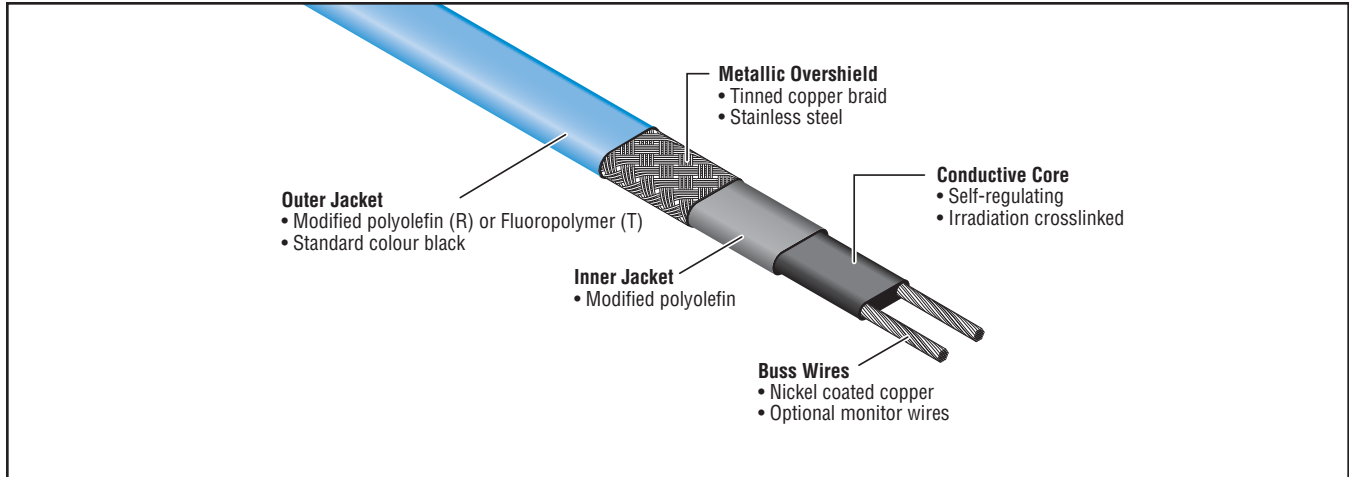


### Data Sheet



#### Description

The 2700 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 150°F (65°C) and survive intermittent exposure up to 185°F (85°C) with power applied.

The 2700 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 2700 cables provide freeze protection and process temperature maintenance for fluid transport and storage systems. The buss 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.

#### Accessories

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

#### Performance Ratings

Output wattage	3, 5, 8, 10 W/ft @ 50°F (10°C)
Supply voltages	110 – 120 Vac or 208 – 277 Vac
Continuous maintenance temp.	150°F (65°C) max
Intermittent exposure temp.	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 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**

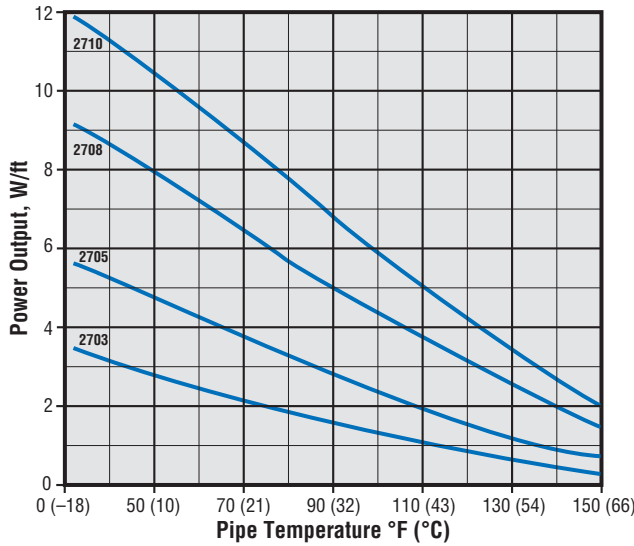
Class I, Div 1\* / 2, Groups B, C, D  
Class II, Div 2, Groups F, G  
Class III, Div 1\* and 2



**Roof and Gutter**  
**Hot Water Maintenance**

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

### Power Output Curves



### Product Ordering Information

Example: **2705 - 1 1 R 00**

- Series**: 27 2700
- Nominal Power Output**:
  - 03 3 W/ft @ 50°F (10 W/m @ 10°C)
  - 05 5 W/ft @ 50°F (16 W/m @ 10°C)
  - 08 8 W/ft @ 50°F (26 W/m @ 10°C)
  - 10 10 W/ft @ 50°F (33 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/Outer Jacket**:
  - C Tinned copper
  - S Stainless steel
  - R Tinned copper w/modified polyolefin jacket
  - T Tinned copper w/flouropolymer jacket
- Reserved**: \_\_\_\_\_

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

		15A	20A	30A	40A
2703-1 If started at:	50°F (10°C)	300	-	-	-
	0°F (-17°C)	200	270	330	-
	-20°F (-29°C)	180	230	330	-
2705-1 If started at:	50°F (10°C)	230	270	-	-
	0°F (-17°C)	150	200	270	-
	-20°F (-29°C)	130	175	260	270
2708-1 If started at:	50°F (10°C)	150	200	210	-
	0°F (-17°C)	95	125	190	210
	-20°F (-29°C)	85	100	170	210
2710-1 If started at:	50°F (10°C)	115	150	180	-
	0°F (-17°C)	70	95	145	180
	-20°F (-29°C)	60	85	120	165

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

		15A	20A	30A	40A
2703-2 If started at:	50°F (10°C)	660	-	-	-
	0°F (-17°C)	410	560	660	-
	-20°F (-29°C)	360	480	660	-
2705-2 If started at:	50°F (10°C)	460	540	-	-
	0°F (-17°C)	300	400	540	-
	-20°F (-29°C)	260	345	520	540
2708-2 If started at:	50°F (10°C)	295	390	420	-
	0°F (-17°C)	195	250	375	420
	-20°F (-29°C)	170	225	340	420
2710-2 If started at:	50°F (10°C)	230	305	360	-
	0°F (-17°C)	150	200	300	360
	-20°F (-29°C)	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 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
2703-2	0.75	1.28
2705-2	0.86	1.16
2708-2	0.91	1.10
2710-2	0.93	1.08

### Heat-Line Freeze Protection Systems

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