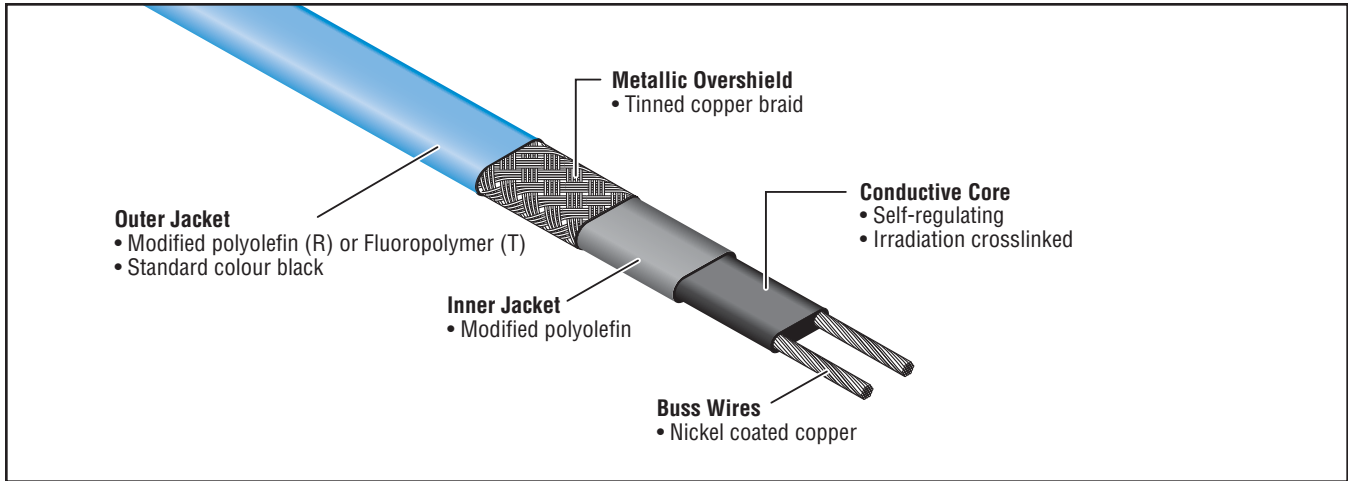




# 2700 Series Cut-to-Length Self-Regulating Heating Cable

## Feature Sheet



### Description

Heat-Line self-regulating cut-to-length 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. The 2700 series can be cut to length and terminated in the field, and will not overheat or burn out when overlapped.

### Features

- Various approvals in Canada and USA including CSA, FM, and UL
- Most models in all wattages are in stock and ready to ship same day or next
- Available at competitive pricing by the foot or in full reels up to 1,000 ft. (305m)
- Can be fully insulated to increase energy efficiency
- Can be used with a variety of control devices including timers and thermostats
- Self-regulating/conductive polymer
- Manufactured in North America
- Covered by 10-Year Original Manufacturer warranty

### Applications

Heat-Line cut-to-length self-regulating heating cables are the perfect solution for heat tracing metallic and non-metallic pipes and roof and gutter roof de-icing applications. The industrial-grade 2700 cables provide freeze protection and process temperature maintenance for fluid transport pipes, valves, tanks, and similar liquid storage systems. Available for both ordinary and hazardous locations, including areas where exposure to corrosive or organic materials is possible.

### Accessories

Heat-Line offers a full line of approved accessories, including power connection kits, terminations, splices, end seals, roof clips, downspout hanger kits, fiberglass and foil tapes, caution labels, and thermostat controls. Many other specialized accessories are available by special request.

### 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)

\*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.

### Product Ordering Information

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

<b>Series</b>	27 2700
<b>Nominal Power Output</b>	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)
<b>Voltage</b>	1 120 Vac (110 - 120) 2 240 Vac (208 - 277)
<b>Class</b>	1 Ordinary/Div. 2 3 Ordinary/Div. 2 w/monitor wires 4 Class I, Div. 1
<b>Braid Option</b>	R Modified Polyolefin heater jacket T Fluoropolymer heater jacket
<b>Reserved</b>	

# Self-Regulating Heating Cable Circuit Lengths

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

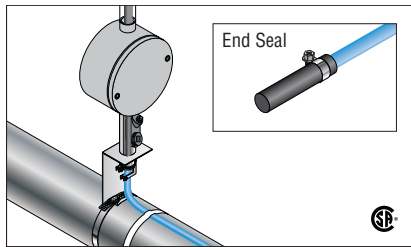
		15A	20A	30A	40A
2703-1 If started at:	50°F (10°C)	300	—	—	—
	0°F (-17°C)	200	270	330	—
	-20°F (-29°C)	180	230	330	—
2705-1 If started at:	50°F (10°C)	230	270	—	—
	0°F (-17°C)	150	200	270	—
	-20°F (-29°C)	130	175	260	270
2708-1 If started at:	50°F (10°C)	150	200	210	—
	0°F (-17°C)	95	125	190	210
	-20°F (-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

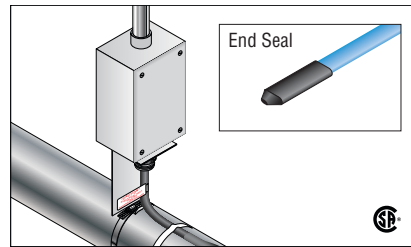
**Note:** Recommended circuit breakers to minimize the effect of transit start-up currents. Westinghouse: Types BA, EB, EHB, FB, HFB. General Electric: E100 Type TEB, E150, Types TED, THED. Square D: Types EH, FAIF. **The Canadian Electrical Code and National Electric Code requires ground fault protection of equipment for each branch circuit supplying electrical heating cables or devices.** Max circuit lengths allowed may be less than those posted depending on the selection of specific connection kits. Always review the specifications of each connection kit to ensure you adhere to requirements.

## Connection Kits



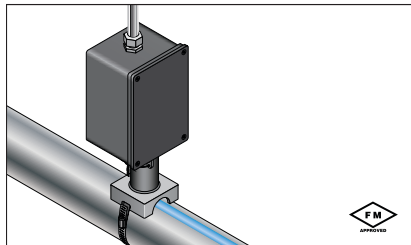
### 1548-4010C

Power Connection and End Seal Kit for Pipes  
For use in Ordinary and Division 2 Locations



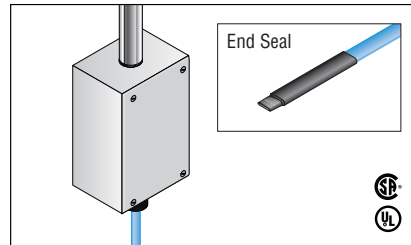
### 1548-4000C

Power Connection and End Seal Kit for Pipes  
For use in Ordinary Locations



### 1548-40PTJ

Power Connection Kit for Pipes  
For use in Ordinary and Division 2 Locations



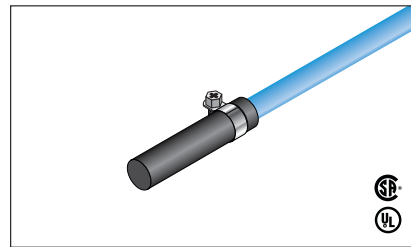
### 1548-40RGP

Power Connection and End Seal Kit  
For use on Roofs and in Gutters



### HTLN-GFC-KIT-120/ HTLN-GFC-KIT-240

Plug-In Power Connection Kit with GFC Protection and End Seal Kit for 120 V and 240 V  
For use on Pipes in Ordinary Locations and on Roofs and Gutters



### SRHC-ES

End Seal Kit for Pipes  
For use in Ordinary and Division 2 Locations

**Note:** Heat-Line provides many other connection kits not listed above. These connection kits must be used to ensure compliance with applicable approvals, codes, and warranty. For proper design and installation refer to the specifications of each connection kit to ensure you adhere to requirements. Questions regarding the correct heating cable or connection kit for your application should be directed to your Heat-Line sales representative.

## Heat-Line Freeze Protection Systems

1095 Green Lake Road  
Algonquin Highlands, ON Canada  
K0M 1S0  
Tel: 1-705-754-4545  
1-800-584-4944  
Fax: 1-705-754-4567  
info@heatline.com  
[www.heatline.com](http://www.heatline.com)

Heat-Line is a trademark of Heat-Line Corporation. All other trademarks are the property of their respective owners.

**Important:** All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Heat-Line a Division of Christopher MacLean Ltd. makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Heat-Line's only obligations are those in the Heat-Line Standard Terms and Conditions of Sale for this product, and in no case will Heat-Line be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Heat-Line reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.