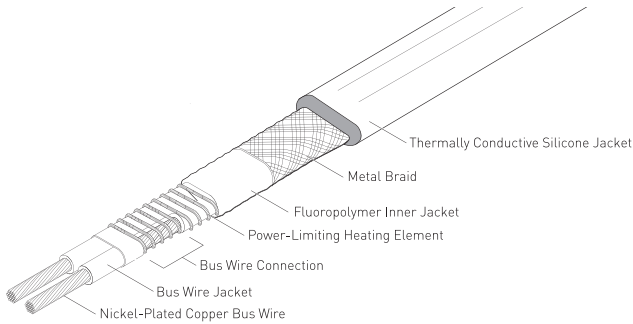


Raychem PTC-Z

CONTACT RAIL HEATER



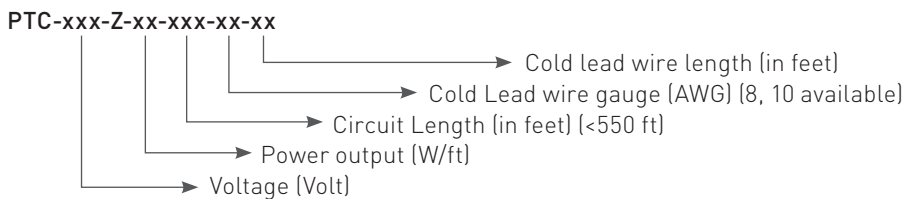
PRODUCT OVERVIEW

Raychem brand Contact Rail Heaters are designed to eliminate ice and snow accumulation on the contact (third) rail. The ice and/or snow accumulation on the third rail can prevent power from getting transferred to the train resulting in expensive service interruptions.

The Service Proven PTC-Z heating cables use a power-limiting technology in which a coiled alloy variable resistance heating element is spiraled around two parallel bus wires. The distance between alternating conductor contact points on the bus wires forms the heating zone length. This parallel construction allows the cable to be cut to length and terminated on site. The power output of heating cable decreases with increasing temperature due to the positive temperature coefficient (PTC) of the resistor alloy. This ensures a lower start-up current and no overheating of cable at high power outputs. The cables incorporate a rugged extruded thermally conductive Silicone jacket that ensures efficient heat transfer to the rail as well as reduced risk of in-service or installation damage.

HEATING CABLE CATALOG NUMBER AND ORDERING INFORMATION

To order a power limiting rail heating cable, it is important to understand the format of our catalog number.



Example: PTC-750-Z-30-400-8-18

- 750 VDC rated power limiting cable, 30 W/ft., 400 ft. circuit length, 8 AWG cold lead wire, and 18 ft. in length.

SPECIFICATIONS (NOMINAL)

Power Output	30, 40, 50 W/ft at 32°F (0°C)
Voltage	480 VAC, 600, 625, 650, 750 VDC
Minimum Installation Temperature	0°F (-18°C)
Maximum Intermittent Exposure Temperature	200°C (392°F)
Weight	2890 lb/1000 ft (4301 kg/km)

BENEFITS OF PTC-Z SYSTEM

- Optimized energy efficient design for each rail type and set of operating conditions
- High wattage capabilities for demanding weather conditions
- Thermally conductive rugged over jacket ensure maximum heat transfer to the rail and makes heater safer and reliable
- Service-proven rugged mechanical design reduces potential for in-service damage
- Proprietary spring clips and fiberglass channel attachment hardware designs provide for quick reliable installation with low craft sensitivity
- Comes pre-terminated with cold leads attached for easy field connections
- Circuit lengths up to 550 ft are possible
- Cut-to-length design for field modifications

APPROVALS

Raychem PTC-Z contact rail heating cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code. The contact rail heaters are typically offered as a part of an integrated system with optimized energy efficient design for each rail type and operating conditions. The system includes heater terminations, attachment hardware (spring clips, fiberglass channel, and abrasion pad), fuse boxes and telemetry and controls. For additional information contact your Thermal representative or call (800) 545-6258.

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[WWW.PENTAIRTHERMAL.COM](http://www.pentairthermal.com)



NORTH AMERICA

Tel: +1.800.545.6258
Fax: +1.800.527.5703
Tel: +1.650.216.1526
Fax: +1.650.474.7711
thermal.info@pentair.com

EUROPE, MIDDLE EAST, AFRICA

Tel: +32.16.213.511
Fax: +32.16.213.603
thermal.info@pentair.com

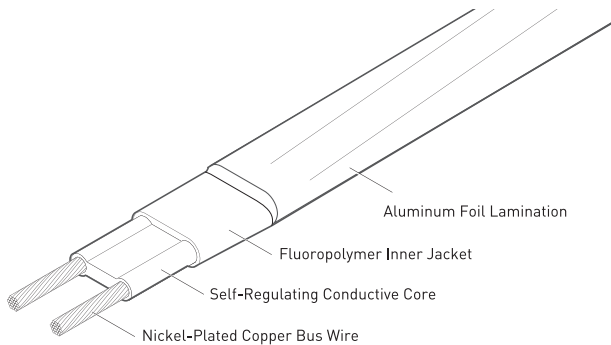
ASIA PACIFIC

Tel: +86.21.2412.1688
Fax: +86.21.5426.2937
cn.thermal.info@pentair.com

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Raychem CRH-SL SELF-REGULATING CONTACT RAIL HEATER



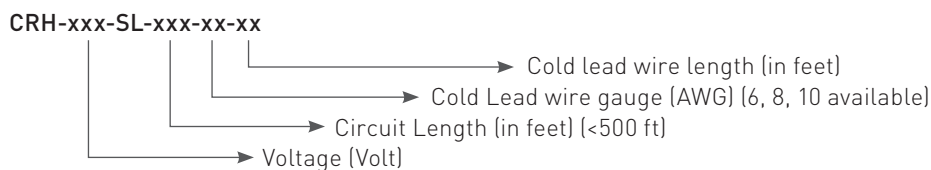
PRODUCT OVERVIEW

Raychem brand contact rail heaters are designed to eliminate ice and snow accumulation on the contact (third) rail. The ice and/ or snow accumulation on the third rail can prevent power from getting transferred to the train resulting in expensive service interruptions.

The CRH-SL heating cables are self-regulating heaters using a polymeric semi-conductive core extruded between the two parallel bus wires. This parallel construction allows the cable to be cut to length. The power output of heating cable decreases with increasing temperature due to the self-regulating behavior of the semi-conductive core. This ensures no overheating of cable at high power outputs. The cable has rugged Aluminum lamination that ensures efficient heat transfer to the rail as well as reduced risk of in-service or installation damage.

HEATING CABLE CATALOG NUMBER AND ORDERING INFORMATION

To order a self-regulating third rail heating cable, it is important to understand the format of our catalog number.



Example: PN: CRH-750-SL-400-08-18

- 750 VDC rated self-regulating cable with 400 ft circuit length with 8 AWG cold lead wire 18 ft in length

SPECIFICATIONS (NOMINAL)

Power Output	27- 35 W/ft at 32°F (0°C)
Voltage	600, 625, 650, 750 VDC
Minimum Installation Temperature	0°F (-18°C)
Maximum Intermittent Exposure Temperature	110°C (230°F)

APPROVALS

Raychem CRH cables meet the requirements of the U.S. National Electrical Code and the Canadian Electrical Code. The contact rail heaters are typically offered as a part of an integrated system with optimized energy efficient design for each rail type and operating conditions. The system includes heater terminations, spring clips, channel attachments, fuse boxes and telemetry and controls. For additional information contact your Thermal representative or call (800) 545-6258.

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NORTH AMERICA

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thermal.info@pentair.com

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