# CRH 250°C

Self-regulating electric heating cable for contact or conductor rail, 3rd rail & points heating.

## CONTACT RAIL HEATER

***Cut To Length - Parallel Resistance Self-Regulating Heating Cable***

- Automatically adjusts heat output in response to increasing or decreasing pipe temperature.
- Can be supplied in pre-terminated lengths, or in bulk reel stock.
- Inherently temperature safe.
- Available in 115V, 230V, 400V and 750V.
- Nominal outputs up to 120W/m.

## DESCRIPTION

The CRH contact or conductor rail heater has been specifically developed for conductor, or 3rd rails, operating on traction power voltages and also for points heating applications.
CRH rail heater is designed to maintain the operational integrity of rail networks, ensuring that conductor rails, or points systems are kept clear of snow and ice during adverse weather conditions.

CRH may be supplied in bulk on reels. It is suitable for direct replacement of existing rail heaters and can integrate with the majority of existing rail heating systems.

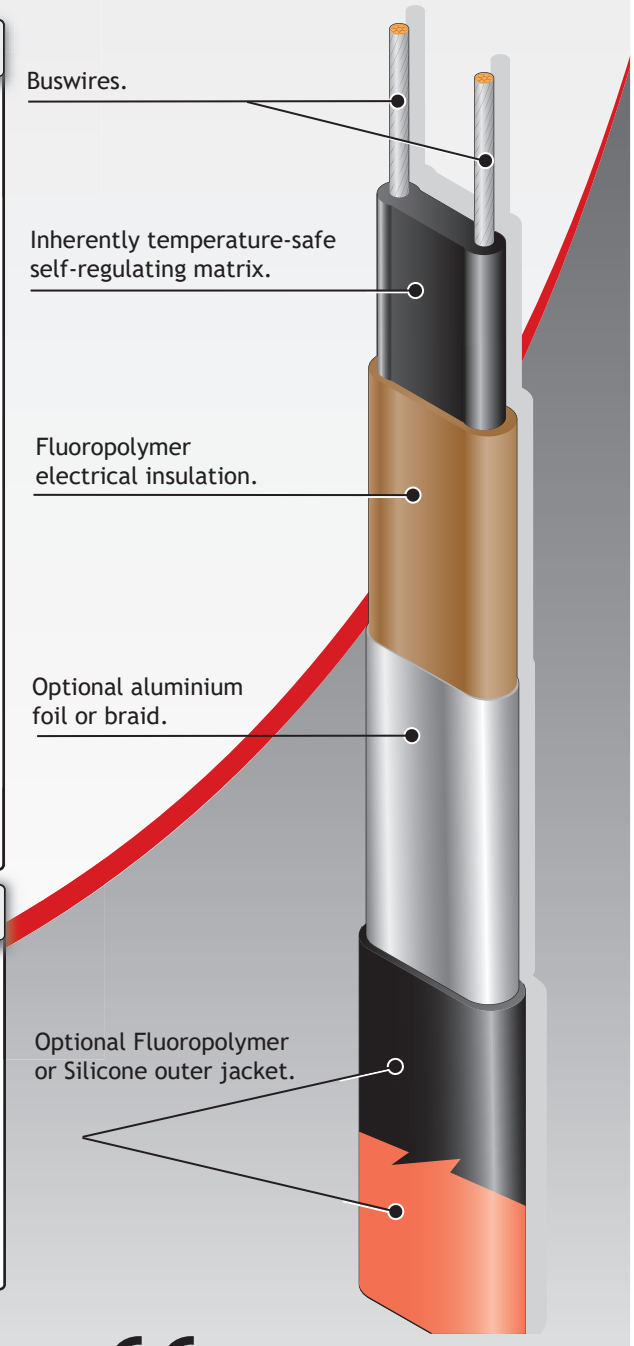
The installation of CRH heating cables is quick and simple and requires no special tools. The fitting of new or replacement heaters can be carried out quickly and safely with minimum track possession time and therefore minimum disruption to rail traffic. All system components are modular to ensure fast and simple installation.

CRH heating cables and system components are suitable for withstanding the hazards of a rail environment, such as severe and continuous vibration due to rail traffic, immersion in icy water, snow, weed killer formulations, diesel oils, lubrication oils, oxalic acid and de-icing fluids.

CRH heating cables are able to operate in 'free air', totally, or partially, without affecting their working life.

## INHERENTLY TEMPERATURE-SAFE

"The inherent ability to self-regulate at a temperature level below the maximum product rating and withstand temperature of the insulating materials, without the need for temperature control."
Similar competitor self-regulating products are typically limited to a maximum energised temperature, typically 120°C, at which point their retained power output prevents the cable from self-regulating at its own limiting temperatures. All such products require temperature control to ensure their own temperature safety.




HEAT TRACE

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SRDS0110 (12012026) Issue 5

# SPECIFICATION

**MAXIMUM TEMPERATURE: ENERGISED OR UN-ENERGISED:** 250ºC (482ºF)

**MINIMUM INSTALLATION TEMPERATURE:** -40ºC (-4ºF)

**POWER OUTPUT (nominal):** *up to* 120W/m @ 10ºC

**POWER SUPPLY:** *up to* 800 Volts (AC or DC)

## CONSTRUCTION:

| | |
|---|---|
| Heating Element: | Semi-conductive self-limiting matrix. |
| Power Conductors: | Nickel plated copper. |
| Primary Insulation: | Fluoropolymer. |
| Foil or Braid: | Aluminium Foil. or Nickel plated copper braid. |
| Outer Jacket (optional) | Fluoropolymer or Silicone. |

## WEIGHTS & DIMENSIONS:

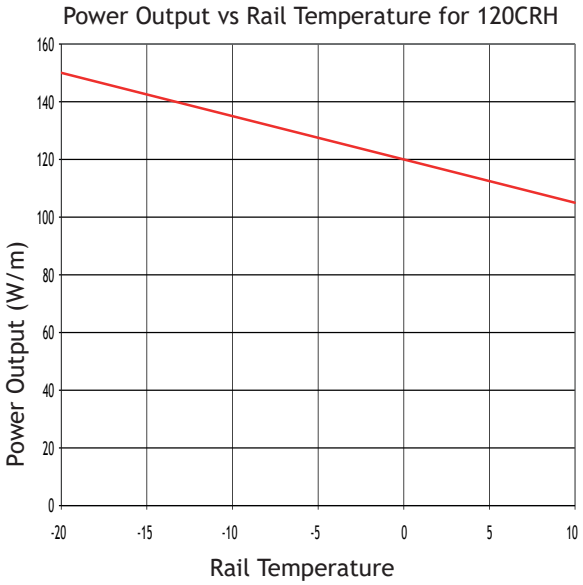
| Type Ref | Dimensions (mm)+/-0.5 | Weight kg/100m | Min Bending radius |
|---|---|---|---|
| CRH | 13.6 x 4.8 | 11.5 | 30mm |

## ORDERING INFORMATION:

Example - pre-terminated lengths 120 CRH 1

Nominal Output 120W/m @ 0ºC
CRH Heating cable
Supply Voltage 115V DC

## HEATER OUTPUT GRAPH:




## ENERGY EFFICIENCY:

CRH heaters conserve energy by providing heat when and where it is needed over the entire circuit length. Their power consumption varies with change in surrounding temperature, unlike conventional Constant-Wattage heaters that draw the same power regardless of temperature changes or localised needs.

The Self-Regulating feature of CRH provides dependable overtemperature protection.

| PRODUCT SELECTION: | 120CRH1 | 120CRH2 | 120CRH4 | 120CRH7 |
|---|---|---|---|---|
| Available voltages: | *100v to 130v* | *200v to 277v* | *400v to 480v* | *700v to 800v* |
| Maximum Circuit lengths (m): | 62m | 130m | 226m | 376m |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SRDS0110 (12012026) Issue 5