

Self-Regulating Heating Tape Contact Rail Heater 135°C - CRH



CRH - Self-regulating electrical heating cable for contact rail / live rail heating

Cut To Length - Parallel Resistance Self-Regulating Heating Cable

- Outputs available up to 90W/m
- CRH is supplied in pre-terminated lengths up to 152 metres
- Full range of controls and accessories
- Available up to 750 vdc
- Suitable for contact rails/live/3rd rail systems
- CRH can also be supplied on reels for cutting to length as required

FEATURES

The CRH contact rail heater has been specifically developed for contact or 3rd/live rails operating on up to 750 volt dc systems.

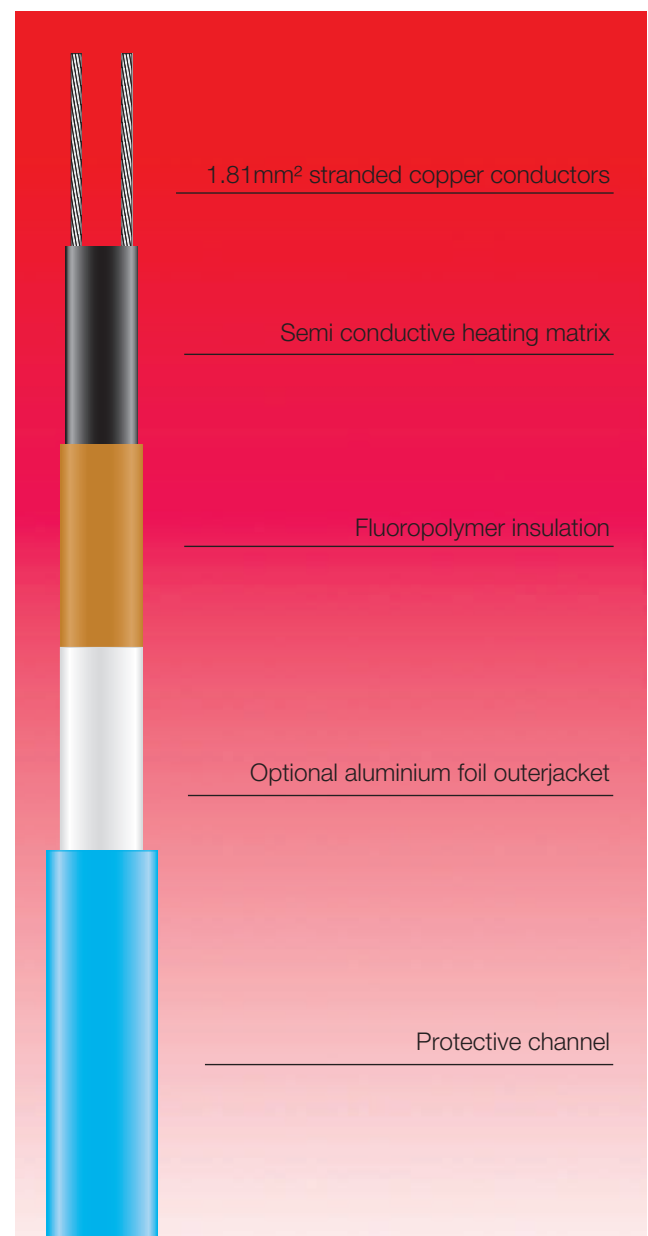
CRH rail heater is designed to maintain the operational integrity of rail networks, ensuring that contact rails are kept clear of snow and ice during adverse weather conditions.

CRH may be supplied in single lengths up to 178 metres and fitted with 1.5 metre pre-terminated cold lead and remote end seals. It is suitable for direct replacement of existing contact rail heaters and will integrate with the majority of existing contact rail or live heating systems. The heater is held in place on the rail using protective GRP angle or channel section and purpose made heavy duty rail clips.

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 the working life of the heater.



SPECIFICATION

MAXIMUM TEMPERATURE Un-energised 135°C (275°F)

MINIMUM INSTALLATION TEMPERATURE -20°C (-4°F)

POWER OUTPUT 90W/m @ 0°C
(27W/ft @ 32°F)

POWER SUPPLY 600VDC

CONSTRUCTION

Heating Element Semi-conductive self-limiting matrix

Power Conductors Nickel plated copper 1.81mm²

Primary Insulation Fluoropolymer

Outer Jacket Aluminium foil

WEIGHTS & DIMENSIONS

Type Ref	Nom. Dims. (mm)	Weight kg/100m	Min. Bending radius (mm)
CRH	13.0 x 4.0	13	30

ORDERING INFORMATION

Example - pre-terminated lengths **90 CRH 6 - 152M**

Nominal Output 88W/m
Heater type CRH
Supply Voltage 600VDC
152m Heated length

ATTACHING THE HEATER TO THE RAIL

Heaters may be mounted on the rail using a channel section. For applications that use an aluminium clad contact rail, an angle section is also available.

Specially designed spring clips hold the heater and the channel, or angle, to the rail. A range of clips are available to suit a variety of different rail profiles.

Heater shown with channel section



Heater shown with angle section



ACCESSORIES

Backer supply a complete range of accessories including connector blocks, anti-vibration plugs, rail clips, control systems, power cabling.

IMPORTANT NOTES

The CRH Rail Heater should only be fitted to rails using approved methods. The heating cable should only be terminated using the approved cold lead connection and the special heat shrink boot and tubing. Connections must be of an approved type.

Full details of all approved ancillary and control equipment is available on request. Installation of the CRH heating cables must be carried out in accordance with Heat Trace's Code of Practice for the Installation of Contact Rail Heating Systems.

MAX. CIRCUIT LENGTH (M) vs. CIRCUIT BREAKER AT 600VDC

Cat Ref	Start-up Temperature	16A	20A	32A	50A
90CRH6	0°C	84	104	166	208
	-10°C	68	84	136	208
	-20°C	56	72	114	178

For use with Type C circuit breakers to BS EN60898:1991

HEATER OUTPUT GRAPH

