

# MI Series Jacketed Copper Heating Cable



nVent RAYCHEM LSZH jacketed copper sheathed mineral insulated (MI) series resistance trace heating cables are used for low temperature maintenance applications including embedded heating in concrete or asphalt, roof de-icing, frost heave protection, exposed snow melting and interior pipe tracing. Continuous exposure temperatures to 194 °F/90 °C and typical power outputs to 35 W/ft (115 W/m depending on application.) Embedded and roof de-icing applications approved for use in hazardous areas.

## FEATURES

- Long circuit lengths possible enabling cost effective heating of large areas
- Reduced power supply costs (lower start up currents compared with other technologies)
- Three phase designs solutions allowing optimization of layouts
- Red LSZH jacket aids visibility while pouring concrete or asphalt
- Rugged cable construction
- Reliable during long life, 10 year product warranty available (robust and rugged construction, proven in harsh climates extends life expectancy)

## SPECIFICATIONS

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Conductor Quantity:                             | 1                        |
| Max Continuous Exposure Temperature, Power Off: | 90 °C                    |
| Max Power Output:                               | 115 W/m                  |
| Min Installation Temperature:                   | -30 °C                   |
| Sheath Material:                                | Copper                   |
| Area Classification:                            | Non-Hazardous; Hazardous |
| Insulation Material:                            | Magnesium Oxide          |

| Table 1/1      |                |                    |                           |                |
|----------------|----------------|--------------------|---------------------------|----------------|
| Catalog Number | Supply Voltage | Conductor Material | Nominal Resistance @ 20°C | Outer Diameter |
| HCHR1L1250-RD  | 0 – 300 V      | Copper Alloy       | 1250 Ω/km                 | 5.1 mm         |

| Catalog Number | Supply Voltage | Conductor Material | Nominal Resistance @ 20°C | Outer Diameter |
|----------------|----------------|--------------------|---------------------------|----------------|
| HCHR1L2000-RD  | 0 – 300 V      | Copper Alloy       | 2000 Ω/km                 | 5.1 mm         |
| HCHR1M100-RD   | 0 – 500 V      | Copper Alloy       | 100 Ω/km                  | 7.5 mm         |
| HCHR1M140-RD   | 0 – 500 V      | Copper Alloy       | 140 Ω/km                  | 7.2 mm         |
| HCHR1M1600-RD  | 0 – 500 V      | Copper Alloy       | 1600 Ω/km                 | 5.68 mm        |
| HCHR1M220-RD   | 0 – 500 V      | Copper Alloy       | 220 Ω/km                  | 6.8 mm         |
| HCHR1M315-RD   | 0 – 500 V      | Copper Alloy       | 315 Ω/km                  | 6.6 mm         |
| HCHR1M630-RD   | 0 – 500 V      | Copper Alloy       | 630 Ω/km                  | 6.3 mm         |
| HCHR1M800-RD   | 0 – 500 V      | Copper Alloy       | 800 Ω/km                  | 5.8 mm         |
| HCCR1M11-RD    | 0 – 500 V      | Copper             | 11 Ω/km                   | 7.2 mm         |
| HCCR1M17-RD    | 0 – 500 V      | Copper             | 17 Ω/km                   | 6.9 mm         |
| HCCR1M25-RD    | 0 – 500 V      | Copper             | 25 Ω/km                   | 6 mm           |
| HCCR1M4-RD     | 0 – 500 V      | Copper             | 4 Ω/km                    | 8.2 mm         |
| HCCR1M40-RD    | 0 – 500 V      | Copper             | 40 Ω/km                   | 5.7 mm         |
| HCCR1M7-RD     | 0 – 500 V      | Copper             | 7 Ω/km                    | 7.6 mm         |

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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