

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 & BENEFITS

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

Supply Voltage 0 – 300 V

Max Power Output 115 W/m

Max Continuous Exposure Temperature, Power Off 90 °C

Insulation Material Magnesium Oxide

Sheath Material Copper

Area Classification Non-Hazardous; Hazardous

Min Installation Temperature -30 °C

Conductor Quantity 2

Table 1/1			
Catalog Number	Conductor Material	Nominal Resistance @ 20°C	Outer Diameter
32RE4280-RD	Copper Alloy	8.5344 Ω/km	9.91 mm
32RE4440-RD	Copper Alloy	13.4112 Ω/km	8.89 mm
32RE4700-RD	Copper Alloy	21.336 Ω/km	8.13 mm
32RE3100-RD	Copper Alloy	30.48 Ω/km	7.57 mm
32RE3125-RD	Copper Alloy	38.1 Ω/km	7.24 mm
32RE3200-RD	Copper Alloy	60.96 Ω/km	6.99 mm
32RD3300-RD	Copper Alloy	91.44 Ω/km	7.11 mm
32RD3400-RD	Copper Alloy	121.92 Ω/km	6.93 mm
32RD3600-RD	Copper Alloy	182.88 Ω/km	6.73 mm
32RD3800-RD	Copper Alloy	243.84 Ω/km	6.48 mm

Supply Voltage 0 – 600 V

Max Power Output 115 W/m

Max Continuous Exposure Temperature, Power Off 90 °C

Insulation Material Magnesium Oxide

Sheath Material Copper

Area Classification Non-Hazardous; Hazardous

Min Installation Temperature -30 °C

Conductor Quantity 1

Table 1/1			
Catalog Number	Conductor Material	Nominal Resistance @ 20°C	Outer Diameter
61RC6403-RD	Copper	0.12192 Ω/km	10.92 mm
61RC6641-RD	Copper	0.19507 Ω/km	9.86 mm
61RC5102-RD	Copper	0.3109 Ω/km	9.32 mm
61RC5258-RD	Copper	0.78638 Ω/km	8.13 mm
61RC5409-RD	Copper	1.24663 Ω/km	7.95 mm
61RC4100-RD	Copper	3.048 Ω/km	7.32 mm
61RE4200-RD	Copper Alloy	6.096 Ω/km	7.49 mm

Catalog Number	Conductor Material	Nominal Resistance @ 20°C	Outer Diameter
61RE4300-RD	Copper Alloy	9.144 Ω/km	7.16 mm
61RE4400-RD	Copper Alloy	12.192 Ω/km	6.99 mm
61RE4600-RD	Copper Alloy	18.288 Ω/km	7.21 mm
61RE4800-RD	Copper Alloy	24.384 Ω/km	6.91 mm
61RE3105-RD	Copper Alloy	32.004 Ω/km	6.71 mm
61RE3150-RD	Copper Alloy	45.72 Ω/km	6.05 mm
61RD3200-RD	Copper Alloy	60.96 Ω/km	6.55 mm
61RD3300-RD	Copper Alloy	91.44 Ω/km	6.35 mm

Supply Voltage 0 – 600 V

Max Power Output 115 W/m

Max Continuous Exposure Temperature, Power Off 90 °C

Insulation Material Magnesium Oxide

Sheath Material Copper

Area Classification Non-Hazardous; Hazardous

Min Installation Temperature -30 °C

Conductor Quantity 2

Table 1/1

Catalog Number	Conductor Material	Nominal Resistance @ 20°C	Outer Diameter
62RC5204-RD	Copper	0.62179 Ω/km	13.69 mm
62RC5324-RD	Copper	0.98755 Ω/km	12.5 mm
62RC5516-RD	Copper	1.57277 Ω/km	11.71 mm
62RC5818-RD	Copper	2.49326 Ω/km	10.92 mm
62RC4130-RD	Copper	3.9624 Ω/km	10.13 mm
62RC4200-RD	Copper	6.096 Ω/km	8.71 mm
62RE4280-RD	Copper Alloy	8.5344 Ω/km	11.71 mm
62RE4440-RD	Copper Alloy	13.4112 Ω/km	10.92 mm
62RE4700-RD	Copper Alloy	21.336 Ω/km	10.13 mm
62RE4950-RD	Copper Alloy	28.956 Ω/km	9.47 mm

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