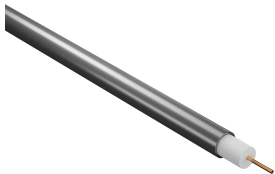


# MI Series Alloy 825 XMI-A HAx Heating Cable



nVent RAYCHEM XMI-A mineral insulated (MI) series resistance trace heating cables provide freeze protection and process temperature maintenance on pipes/vessels up to 1022 °F/550 °C and intermittent exposure to 1200 °F/650 °C. Available with 300 V and 600 V rating, approved for applications up to 61 W/ft (200 W/m) and hazardous areas. The Alloy 825 sheath provides extreme resistance to a broad range of corrosive environments.

## FEATURES

- Reliable during long life: 10 year product warranty available, robust and rugged construction, proven in harsh climates extends life expectancy
- Reduced total installed cost
- Dual conductor versions particularly suited to small pipes and instrument tubing
- Reduced power supply costs: lower start up currents compared with other technologies
- Simple controls: current monitoring on series resistance provides instant visibility on critical circuits
- Fast track / expedite service for configured heating units for eligible designs
- Excellent corrosion resistance to a wide range of organic acids, alkalis and chloride stress-corrosion cracking

## SPECIFICATIONS

|                                                        |                           |
|--------------------------------------------------------|---------------------------|
| <b>Max Continuous Exposure Temperature, Power Off:</b> | 650 °C                    |
| <b>Min Installation Temperature:</b>                   | -60 °C                    |
| <b>Sheath Material:</b>                                | Alloy 825                 |
| <b>Area Classification:</b>                            | Non-Hazardous; Hazardous  |
| <b>Insulation Material:</b>                            | Magnesium Oxide           |
| <b>Ground Path Type:</b>                               | Sheath                    |
| <b>Conductor Material:</b>                             | Various Alloys and Copper |

| Table 1/1      |           |                |                  |                    |                           |                |
|----------------|-----------|----------------|------------------|--------------------|---------------------------|----------------|
| Catalog Number | Item Name | Supply Voltage | Max Power Output | Conductor Quantity | Nominal Resistance @ 20°C | Outer Diameter |

|          |           |           |         |   |           |         |
|----------|-----------|-----------|---------|---|-----------|---------|
| 61SC6640 | HAC1N2    | 0 – 600 V | 200 W/m | 1 | 2 Ω/km    | 8.1 mm  |
| 61SC5102 | HAC1N3.3  | 0 – 600 V | 200 W/m | 1 | 3.3 Ω/km  | 6.4 mm  |
| 62SC5128 | HAC2N4.3  | 0 – 600 V | 270 W/m | 2 | 4.3 Ω/km  | 13.8 mm |
| 61SC5162 | HAC1N5.3  | 0 – 600 V | 200 W/m | 1 | 5.3 Ω/km  | 6.8 mm  |
| 62SC5204 | HAC2N6.6  | 0 – 600 V | 270 W/m | 2 | 6.6 Ω/km  | 12.6 mm |
| 61SC5258 | HAC1N8.5  | 0 – 600 V | 200 W/m | 1 | 8.5 Ω/km  | 5.5 mm  |
| 62SC5324 | HAC2N10.5 | 0 – 600 V | 270 W/m | 2 | 10.5 Ω/km | 10.2 mm |
| 61SC5409 | HAC1N13.5 | 0 – 600 V | 200 W/m | 1 | 13.5 Ω/km | 4.9 mm  |
| 62SC5516 | HAC2N17   | 0 – 600 V | 270 W/m | 2 | 17 Ω/km   | 9.2 mm  |
| 61SC5651 | HAC1N21.3 | 0 – 600 V | 200 W/m | 1 | 21.3 Ω/km | 4.7 mm  |
| 62SC5818 | HAC2N27   | 0 – 600 V | 270 W/m | 2 | 27 Ω/km   | 8.4 mm  |
| 61SP4113 | HAP1N37   | 0 – 600 V | 200 W/m | 1 | 37 Ω/km   | 4.7 mm  |
| 62SC4130 | HAC2N43   | 0 – 600 V | 270 W/m | 2 | 43 Ω/km   | 7.7 mm  |
| 61SP4145 | HAP1N48   | 0 – 600 V | 200 W/m | 1 | 48 Ω/km   | 4.3 mm  |
| 61SP4183 | HAP1N60   | 0 – 600 V | 200 W/m | 1 | 60 Ω/km   | 4.3 mm  |
| 62SC4200 | HAC2N66   | 0 – 600 V | 270 W/m | 2 | 66 Ω/km   | 7.2 mm  |
| 61SP4231 | HAP1N76   | 0 – 600 V | 200 W/m | 1 | 76 Ω/km   | 4.4 mm  |
| 62SP4281 | HAP2N92   | 0 – 600 V | 270 W/m | 2 | 92 Ω/km   | 7.4 mm  |
| 61SP4290 | HAP1N95   | 0 – 600 V | 200 W/m | 1 | 95 Ω/km   | 4.5 mm  |

|          |            |           |         |   |            |        |
|----------|------------|-----------|---------|---|------------|--------|
| 32SC4324 | HAC2M105   | 0 – 300 V | 200 W/m | 2 | 105 Ω/km   | 4.7 mm |
| 32SA2400 | HAA2M13.2K | 0 – 300 V | 200 W/m | 2 | 13200 Ω/km | 3.7 mm |
| 61SP4366 | HAP1N120   | 0 – 600 V | 200 W/m | 1 | 120 Ω/km   | 4.4 mm |
| 32SA2275 | HAA2M9000  | 0 – 300 V | 200 W/m | 2 | 9000 Ω/km  | 3.9 mm |
| 32SF1110 | HAF2M36K   | 0 – 300 V | 200 W/m | 2 | 36000 Ω/km | 4 mm   |
| 32SB2114 | HAB2M3750  | 0 – 300 V | 200 W/m | 2 | 3750 Ω/km  | 4.4 mm |
| 32SB3700 | HAB2M2300  | 0 – 300 V | 200 W/m | 2 | 2300 Ω/km  | 4.3 mm |
| 32SB3914 | HAB2M3000  | 0 – 300 V | 200 W/m | 2 | 3000 Ω/km  | 4.1 mm |
| 61SB3150 | HAB1N500   | 0 – 600 V | 200 W/m | 1 | 500 Ω/km   | 4.3 mm |
| 61SB3200 | HAB1N660   | 0 – 600 V | 200 W/m | 1 | 660 Ω/km   | 4.6 mm |
| 62SB3700 | HAB2N2300  | 0 – 600 V | 270 W/m | 2 | 2300 Ω/km  | 6.7 mm |
| 62SB3914 | HAB2N3000  | 0 – 600 V | 270 W/m | 2 | 3000 Ω/km  | 5.9 mm |
| 62SP4402 | HAP2N130   | 0 – 600 V | 270 W/m | 2 | 130 Ω/km   | 7 mm   |
| 32SF2750 | HAF2M24.5K | 0 – 300 V | 200 W/m | 2 | 24500 Ω/km | 4 mm   |
| 32SA2600 | HAA2M19.7K | 0 – 300 V | 200 W/m | 2 | 19700 Ω/km | 4.1 mm |
| 32SF2900 | HAF2M29.5K | 0 – 300 V | 200 W/m | 2 | 29500 Ω/km | 4.1 mm |
| 61SA2130 | HAA1N4300  | 0 – 600 V | 200 W/m | 1 | 4300 Ω/km  | 4.1 mm |
| 61SA2100 | HAA1N3300  | 0 – 600 V | 200 W/m | 1 | 3300 Ω/km  | 4.1 mm |
| 61SA3700 | HAA1N2300  | 0 – 600 V | 200 W/m | 1 | 2300 Ω/km  | 4.1 mm |

|          |            |           |         |   |            |        |
|----------|------------|-----------|---------|---|------------|--------|
| 32SQ3200 | HAQ2M660   | 0 – 300 V | 200 W/m | 2 | 660 Ω/km   | 4.1 mm |
| 61SA2160 | HAA1N5250  | 0 – 600 V | 200 W/m | 1 | 5250 Ω/km  | 4.1 mm |
| 32SP4458 | HAP2M150   | 0 – 300 V | 200 W/m | 2 | 150 Ω/km   | 4.8 mm |
| 61SP4467 |            | 0 – 600 V | 200 W/m | 1 | 155 Ω/km   | 4.3 mm |
| 61SA3850 | HAA1N2800  | 0 – 600 V | 200 W/m | 1 | 2800 Ω/km  | 4.3 mm |
| 61SQ4732 | HAQ1N240   | 0 – 600 V | 200 W/m | 1 | 240 Ω/km   | 4.3 mm |
| 61ST3280 | HAT1N920   | 0 – 600 V | 200 W/m | 1 | 920 Ω/km   | 4.3 mm |
| 32SA2170 | HAA2M5600  | 0 – 300 V | 200 W/m | 2 | 5600 Ω/km  | 4.2 mm |
| 32SA2200 | HAA2M6600  | 0 – 300 V | 200 W/m | 2 | 6600 Ω/km  | 4.3 mm |
| 32SF1180 | HAF2M59K   | 0 – 300 V | 200 W/m | 2 | 59000 Ω/km | 4.4 mm |
| 32SQ3150 | HAQ2M495   | 0 – 300 V | 200 W/m | 2 | 495 Ω/km   | 4.3 mm |
| 61SA3500 | HAA1N1640  | 0 – 600 V | 200 W/m | 1 | 1640 Ω/km  | 4.3 mm |
| 32SA2318 | HAA2M10.4K | 0 – 300 V | 200 W/m | 2 | 10400 Ω/km | 4.4 mm |
| 61SA2200 | HAA1N6565  | 0 – 600 V | 200 W/m | 1 | 6565 Ω/km  | 4.3 mm |
| 61SQ3118 | HAQ1N390   | 0 – 600 V | 200 W/m | 1 | 390 Ω/km   | 4.4 mm |
| 61SQ4581 | HAQ1N190   | 0 – 600 V | 200 W/m | 1 | 190 Ω/km   | 4.4 mm |
| 32SP4734 | HAP2M240   | 0 – 300 V | 200 W/m | 2 | 240 Ω/km   | 4.4 mm |
| 32SQ3472 | HAQ2M1560  | 0 – 300 V | 200 W/m | 2 | 1560 Ω/km  | 4.5 mm |
| 32SQ3293 | HAQ2M965   | 0 – 300 V | 200 W/m | 2 | 965 Ω/km   | 4.5 mm |

|          |            |           |         |   |            |        |
|----------|------------|-----------|---------|---|------------|--------|
| 32SP4583 | HAP2M190   | 0 – 300 V | 200 W/m | 2 | 190 Ω/km   | 4.5 mm |
| 32SQ3374 | HAQ2M1240  | 0 – 300 V | 200 W/m | 2 | 1240 Ω/km  | 4.6 mm |
| 62SP4561 | HAP2N185   | 0 – 600 V | 270 W/m | 2 | 185 Ω/km   | 6.7 mm |
| 32SQ3100 | HAQ2M330   | 0 – 300 V | 200 W/m | 2 | 330 Ω/km   | 4.7 mm |
| 62SF1110 | HAF2N36K   | 0 – 600 V | 270 W/m | 2 | 36000 Ω/km | 4.9 mm |
| 62SF2900 | HAF2N29.5K | 0 – 600 V | 270 W/m | 2 | 29500 Ω/km | 4.9 mm |
| 62SF2750 | HAF2N24.5K | 0 – 600 V | 270 W/m | 2 | 24500 Ω/km | 5.2 mm |
| 62SQ3374 | HAQ2N1240  | 0 – 600 V | 270 W/m | 2 | 1240 Ω/km  | 5.5 mm |
| 62ST2115 | HAT2N3750  | 0 – 600 V | 270 W/m | 2 | 3750 Ω/km  | 5.5 mm |
| 62SQ3505 | HAQ2N1670  | 0 – 600 V | 270 W/m | 2 | 1670 Ω/km  | 5.5 mm |
| 62SP4775 | HAP2N255   | 0 – 600 V | 270 W/m | 2 | 255 Ω/km   | 6.4 mm |
| 62SQ3286 | HAQ2N940   | 0 – 600 V | 270 W/m | 2 | 940 Ω/km   | 5.6 mm |
| 62SA2275 | HAA2N9000  | 0 – 600 V | 270 W/m | 2 | 9000 Ω/km  | 5.7 mm |
| 62SF2600 | HAF2N19.7K | 0 – 600 V | 270 W/m | 2 | 19700 Ω/km | 5.8 mm |
| 62SQ3150 | HAQ2N495   | 0 – 600 V | 270 W/m | 2 | 495 Ω/km   | 5.8 mm |
| 62SQ3200 | HAQ2N660   | 0 – 600 V | 270 W/m | 2 | 660 Ω/km   | 5.8 mm |
| 62SA2170 | HAA2N5600  | 0 – 600 V | 270 W/m | 2 | 5600 Ω/km  | 6.1 mm |
| 62SA2414 | HAA2N13.6K | 0 – 600 V | 270 W/m | 2 | 13600 Ω/km | 6.1 mm |
| 62SF2200 | HAF2N6600  | 0 – 600 V | 270 W/m | 2 | 6600 Ω/km  | 6.2 mm |

|          |           |           |         |   |           |        |
|----------|-----------|-----------|---------|---|-----------|--------|
| 62SQ3100 | HAQ2N330  | 0 – 600 V | 270 W/m | 2 | 330 Ω/km  | 6.5 mm |
| 62ST3505 | HAT2N1670 | 0 – 600 V | 270 W/m | 2 | 1760 Ω/km | 5.5 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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