

# XTVR Self-Regulating Heating Cable



nVent RAYCHEM XTVR self-regulating trace heating cables are mainly used for freeze protection of pipes and vessels that require steam cleaning and process temperature maintenance, up to 302 °F/150 °C. They withstand intermittent exposure to 482 °F/250 °C. The fluoropolymer outer jacket (-CT) provides high chemical resistance against aggressive organics and corrosives.

## FEATURES

High power retention (HPR) heating core

Power retention: At least 95% after 10 years

Design life: 30 years or more depending on application

Simplified design in hazardous area: T3 Unconditional or T6-T4 System classification

Longer circuit lengths due to larger cross section conductors

Fast installation: cut-to-length, multiple overlaps allowed, meter markings, user-friendly connections kits

Safe and efficient in operation: no overheating, uniform pipe temperatures, energy saving technology

Reliable during long life: 10 year product warranty available, maintenance free

## SPECIFICATIONS

|                                                                   |                                |
|-------------------------------------------------------------------|--------------------------------|
| <b>Max Maintain or Continuous Exposure Temperature, Power On:</b> | 150 °C                         |
| <b>Supply Voltage:</b>                                            | 200 – 277 V                    |
| <b>Max Intermittent Exposure Temperature, Power On/Off:</b>       | 250 °C                         |
| <b>Max Cumulative Hours for Intermittent Exposure:</b>            | 2000 h                         |
| <b>Ground Path Type:</b>                                          | Braid                          |
| <b>Area Classification:</b>                                       | Non-Hazardous; Hazardous       |
| <b>Outer Jacket Material:</b>                                     | High Temperature Fluoropolymer |

Table 1/4

| Catalog Number | Item Name | Nominal Power Output @ 10°C, 230V | Color | Conductor Material | Conductor Quantity | Hazardous Area |
|----------------|-----------|-----------------------------------|-------|--------------------|--------------------|----------------|
|----------------|-----------|-----------------------------------|-------|--------------------|--------------------|----------------|

|            |            |        |     |                   |   |     |
|------------|------------|--------|-----|-------------------|---|-----|
| 2000003070 | 3XTVR2-CT  | 9 W/m  | Red | Tin-Plated Copper | 2 | Yes |
| 2000003072 | 5XTVR2-CT  | 16 W/m | Red | Tin-Plated Copper | 2 | Yes |
| 2000003073 | 8XTVR2-CT  | 25 W/m | Red | Tin-Plated Copper | 2 | Yes |
| 2000003075 | 10XTVR2-CT | 32 W/m | Red | Tin-Plated Copper | 2 | Yes |
| 2000003076 | 12XTVR2-CT | 38 W/m | Red | Tin-Plated Copper | 2 | Yes |
| 2000003078 | 15XTVR2-CT | 48 W/m | Red | Tin-Plated Copper | 2 | Yes |
| 2000003080 | 20XTVR2-CT | 64 W/m | Red | Tin-Plated Copper | 2 | Yes |

| Table 2/4      |            |                    |                          |                            |                           |                              |
|----------------|------------|--------------------|--------------------------|----------------------------|---------------------------|------------------------------|
| Catalog Number | Item Name  | Max Circuit Length | Max Exposure Temperature | Min Bending Radius @ -60°C | Min Bending Radius @ 20°C | Min Installation Temperature |
| 2000003070     | 3XTVR2-CT  | 245 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003072     | 5XTVR2-CT  | 233 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003073     | 8XTVR2-CT  | 175 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003075     | 10XTVR2-CT | 164 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003076     | 12XTVR2-CT | 140 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003078     | 15XTVR2-CT | 135 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |
| 2000003080     | 20XTVR2-CT | 110 m              | 250 °C                   | 51 mm                      | 13 mm                     | -60 °C                       |

| Table 3/4      |           |                      |                |                                   |                   |                                   |
|----------------|-----------|----------------------|----------------|-----------------------------------|-------------------|-----------------------------------|
| Catalog Number | Item Name | Nominal Cable Weight | Nominal Height | Nominal Power Output @ 10°C, 240V | Nominal Thickness | Nominal Voltage                   |
| 2000003070     | 3XTVR2-CT | 170 g/m              | 7.6 mm         | 9 W/m                             | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |

| CatalogNumber | Item Name  | Nominal Cable Weight | Nominal Height | Nominal Power Output @ 10°C, 240V | Nominal Thickness | Nominal Voltage                   |
|---------------|------------|----------------------|----------------|-----------------------------------|-------------------|-----------------------------------|
| 2000003072    | 5XTVR2-CT  | 170 g/m              | 7.6 mm         | 16 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |
| 2000003073    | 8XTVR2-CT  | 170 g/m              | 7.6 mm         | 26 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |
| 2000003075    | 10XTVR2-CT | 170 g/m              | 7.6 mm         | 32 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |
| 2000003076    | 12XTVR2-CT | 170 g/m              | 7.6 mm         | 39 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |
| 2000003078    | 15XTVR2-CT | 170 g/m              | 7.6 mm         | 49 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |
| 2000003080    | 20XTVR2-CT | 170 g/m              | 7.6 mm         | 65 W/m                            | 7.2 mm            | 208 V, 220 V, 230 V, 240 V, 277 V |

Table 4/4

| Catalog Number | Item Name  | Nominal Width |
|----------------|------------|---------------|
| 2000003070     | 3XTVR2-CT  | 10.8 mm       |
| 2000003072     | 5XTVR2-CT  | 10.8 mm       |
| 2000003073     | 8XTVR2-CT  | 10.8 mm       |
| 2000003075     | 10XTVR2-CT | 10.8 mm       |
| 2000003076     | 12XTVR2-CT | 10.8 mm       |
| 2000003078     | 15XTVR2-CT | 10.8 mm       |
| 2000003080     | 20XTVR2-CT | 10.8 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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