

# SC Series Heating Cable, Hazardous Area



nVent RAYCHEM SC series-resistance trace heating cables provide freeze protection and high-temperature maintenance for longline heating applications. Available with single/dual/triple conductors , they can be used for continuous circuit lengths to 12,000 ft/3659 m powered from a single source, capable of supporting voltages up to 600 VAC and suitable for continuous exposure to temperatures up to 400 °F/204 °C. Approved for use in hazardous areas. The fluoropolymer outer jacket provides high chemical resistance against aggressive organics and corrosives.

## FEATURES

- Fast installation, with long circuit length capability: up to 12,000 ft/3659 m from a single power source
- Safe and efficient in operation, supports high voltages up to 600 VAC
- Reliable during long life: 10 year extended product warranty available, maintenance free

## SPECIFICATIONS

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| Min Bending Radius:                               | 25.4 mm                  |
| Max Power Output:                                 | 39 W/m                   |
| Max Continuous Exposure Temperature, Power Off:   | 204 °C                   |
| Max Intermittent Exposure Temperature, Power Off: | 204 °C                   |
| Min Installation Temperature:                     | -40 °C                   |
| Supply Voltage:                                   | 0 – 600 V                |
| Outer Jacket Material:                            | Fluoropolymer            |
| Area Classification:                              | Non-Hazardous; Hazardous |
| Color:                                            | Red                      |

| Table 1/2      |           |                           |                |               |                |                    |
|----------------|-----------|---------------------------|----------------|---------------|----------------|--------------------|
| Catalog Number | Item Name | Nominal Resistance @ 20°C | Outer Diameter | Nominal Width | Nominal Height | Conductor Quantity |

|            |          |            |        |          |         |   |
|------------|----------|------------|--------|----------|---------|---|
| 270530-000 | 1SC80-CT | 2.13 Ω/km  | 8.1 mm |          |         | 1 |
| P000000420 | 3SC80-CT | 2.13 Ω/km  |        | 21.59 mm | 9.4 mm  | 3 |
| 808686-000 | 1SC70-CT | 3.94 Ω/km  | 7.3 mm |          |         | 1 |
| P000000419 | 3SC70-CT | 3.94 Ω/km  |        | 19.05 mm | 8.64 mm | 3 |
| 127284-000 | 2SC80-CT | 4.26 Ω/km  |        | 15.49 mm | 9.4 mm  | 2 |
| 850632-000 | 1SC60-CT | 6.13 Ω/km  | 6.6 mm |          |         | 1 |
| P000000418 | 3SC60-CT | 6.13 Ω/km  |        | 17.27 mm | 7.87 mm | 3 |
| 593308-000 | 2SC70-CT | 7.87 Ω/km  |        | 13.97 mm | 8.64 mm | 2 |
| 157592-000 | 1SC50-CT | 9.51 Ω/km  | 6 mm   |          |         | 1 |
| P000000417 | 3SC50-CT | 9.51 Ω/km  |        | 15.75 mm | 7.37 mm | 3 |
| 583594-000 | 2SC60-CT | 12.26 Ω/km |        | 12.7 mm  | 7.87 mm | 2 |
| 115552-000 | 1SC40-CT | 15.02 Ω/km | 5.8 mm |          |         | 1 |
| P000000416 | 3SC40-CT | 15.02 Ω/km |        | 14.73 mm | 7.11 mm | 3 |
| 834824-000 | 2SC50-CT | 19.02 Ω/km |        | 11.43 mm | 7.37 mm | 2 |
| 794800-000 | 1SC30-CT | 19.35 Ω/km | 5.5 mm |          |         | 1 |
| P000000415 | 3SC30-CT | 19.35 Ω/km |        | 14.22 mm | 6.86 mm | 3 |
| 369740-000 | 2SC40-CT | 30.04 Ω/km |        | 10.67 mm | 7.11 mm | 2 |
| 099266-000 | 2SC30-CT | 38.69 Ω/km |        | 10.41 mm | 6.86 mm | 2 |

Table 2/2

| Catalog Number | Item Name | Nominal Cable Weight |
|----------------|-----------|----------------------|
|----------------|-----------|----------------------|

|            |          |         |
|------------|----------|---------|
| 270530-000 | 1SC80-CT | 178 g/m |
| P000000420 | 3SC80-CT | 535 g/m |
| 808686-000 | 1SC70-CT | 134 g/m |
| P000000419 | 3SC70-CT | 402 g/m |
| 127284-000 | 2SC80-CT | 357 g/m |
| 850632-000 | 1SC60-CT | 104 g/m |
| P000000418 | 3SC60-CT | 312 g/m |
| 593308-000 | 2SC70-CT | 268 g/m |
| 157592-000 | 1SC50-CT | 89 g/m  |
| P000000417 | 3SC50-CT | 268 g/m |
| 583594-000 | 2SC60-CT | 208 g/m |
| 115552-000 | 1SC40-CT | 74 g/m  |
| P000000416 | 3SC40-CT | 223 g/m |
| 834824-000 | 2SC50-CT | 178 g/m |
| 794800-000 | 1SC30-CT | 59 g/m  |
| P000000415 | 3SC30-CT | 178 g/m |
| 369740-000 | 2SC40-CT | 149 g/m |
| 099266-000 | 2SC30-CT | 119 g/m |

ADDITIONAL PRODUCT DETAILS

Nominal Resistance @ 68°F / 20°C for 3 conductor cable, resistance values are per conductor

Max Power Output is typical value, depending on application

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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