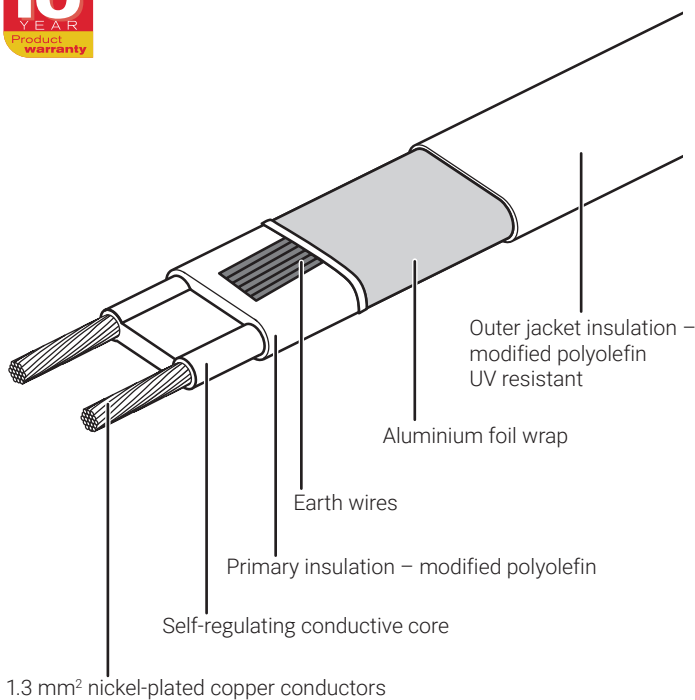


Self-Regulating Heating Cable

PRODUCT OVERVIEW



The nVent RAYCHEM BSA self-regulating heating cable is designed for industrial pipe freeze protection without steam cleaning and moderate process temperature requirements. It can be used for indoor and outdoor installation in ordinary (non-hazardous) area applications.

The foil wrap/drain-wire construction provides a highly flexible cable, that is easy to install around complex or small pipe networks.

Application

| | |
|---------------------|--|
| Traced surface type | Carbon steel Stainless steel Painted or unpainted metal Plastic |
| Chemical resistance | Mild inorganic solutions |

Supply voltage

230 Vac

PRODUCT SPECIFICATIONS

Product dimensions (nominal) and weight

| | 3BSA2-DR | 7BSA2-DR |
|----------------|----------|----------|
| Thickness (mm) | 5.7 | 5.7 |
| Width (mm) | 13.0 | 13.0 |
| Weight (g/m) | 100 | 100 |

Technical details

Maximum maintain or continuous exposure temperature (power on/off) 65°C

Maximum intermittent exposure temperature (power on/off) 85°C
Maximum cumulative exposure 1000 hours

Minimum installation temperature -60°C

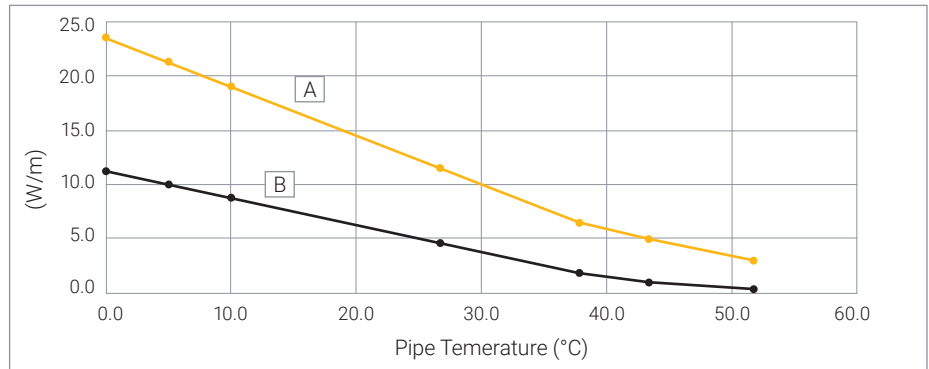
Minimum bend radius at 20°C: 10 mm
at -60°C: 35 mm

Thermal output rating

Nominal power output at 230 Vac on insulated steel pipes

A 7BSA2-DR

B 3BSA2-DR



| | 3BSA2-DR | 7BSA2-DR |
|------------------------------------|----------|----------|
| Nominal power output (W/m at 10°C) | 9W/m | 19W/m |

Maximum circuit length based on Type 'C' circuit breakers according to EN 60898

| Electrical protection sizing | Start-up temperature | Maximum heating cable length per circuit (m) | |
|------------------------------|----------------------|--|-----|
| 16 A | -20°C | 126 | 70 |
| | +10°C | 150 | 120 |
| 20 A | -20°C | 150 | 87 |
| | +10°C | 150 | 120 |
| 25 A | -20°C | 150 | 109 |
| | +10°C | 150 | 120 |

The above numbers are for circuit length estimation only. For more detailed information please use nVent RAYCHEM TraceCalc software or contact your local nVent representative. nVent requires the use of a 30 mA residual current device to provide maximum safety and protection from fire. Where design results in higher leakage current, the preferred trip level for adjustable devices is 30 mA above any inherent capacitive leakage characteristic of the heater as specified by the trace heater supplier or alternatively, the next common available trip level for non adjustable devices, with a maximum of 300 mA. All safety aspects need to be proven.

APPROVALS

For use in ordinary area.

Product certification



More details about product certification, approvals and conditions of safe use are available in the installation manual for Self-regulating and Power limiting heating cable systems at www.nVent.com/RAYCHEM.

ORDERING INFORMATION

| Part description | 3BSA2-DR | 7BSA2-DR |
|------------------|------------|------------|
| Part No. | P000002271 | P000002272 |

Components

nVent offers a full range of components for power connections, splices and end seals. As a minimum a connection kit and end seal must be used from the below list to ensure proper functioning of the product and compliance with electrical requirements.

| Name | Part number | Description |
|-------------|-------------|--|
| JB-82 | 535679-000 | Junction box , polycarbonate, 4 entries, non-hazardous |
| JB-NH2 | 1244-020910 | Junction box , engineered polymer, 2 entries, non-hazardous |
| JB-NH4 | 1244-020911 | Junction box , engineered polymer, 4 entries, non-hazardous |
| SB-110 | 707366-000 | Support bracket (other brackets possible SB-100, SB-101, SB-130) |
| C25-01 | 1244-020909 | Hot applied connection kit to the Junction Box, non hazardous |
| IEK-25-04 | 332523-000 | Insulation entry kit |
| IEK-25-pipe | 1244-001050 | Insulation entry kit for pipe mounting |
| E-02-AL | 1244-020913 | Cold applied end seal kit, non hazardous |
| CSE-05-DR | 1244-021440 | Cold lead/splice connection and end seal kit, non hazardous |

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