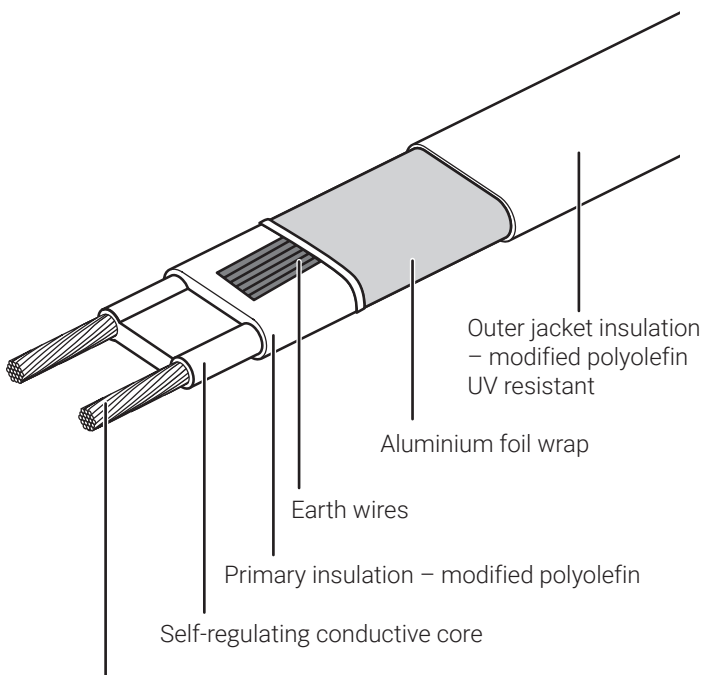


## Self-Regulating Heating Cable

### HEATING CABLE CONSTRUCTION



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.

1.3 mm<sup>2</sup> nickel-plated copper conductors

### APPLICATION

Area classification	Ordinary (non-hazardous) area
Traced surface type	Carbon steel Stainless steel Painted or unpainted metal Plastic
Chemical resistance	Mild inorganic solutions

### SUPPLY VOLTAGE

230 Vac

### APPROVALS



Products are in compliance with IEC/EN 62395-1:2013  
DNV-GL TAE00003ES

## SPECIFICATIONS

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

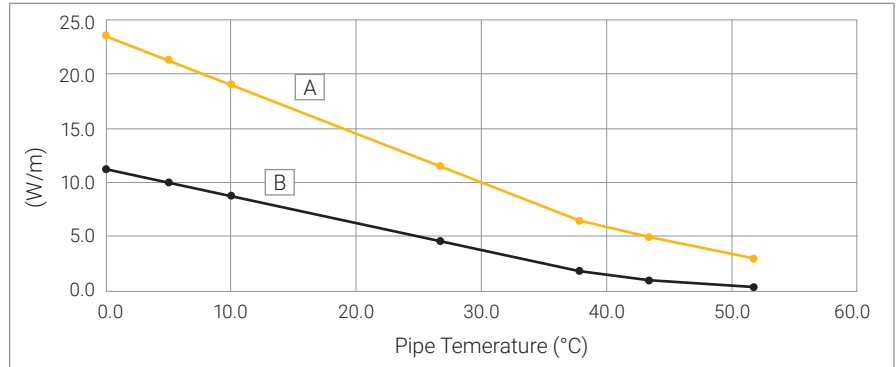
Minimum bend radius at 20°C: 10 mm  
at -60°C: 35 mm

## 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

## 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

## 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.

## ORDERING DETAILS

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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