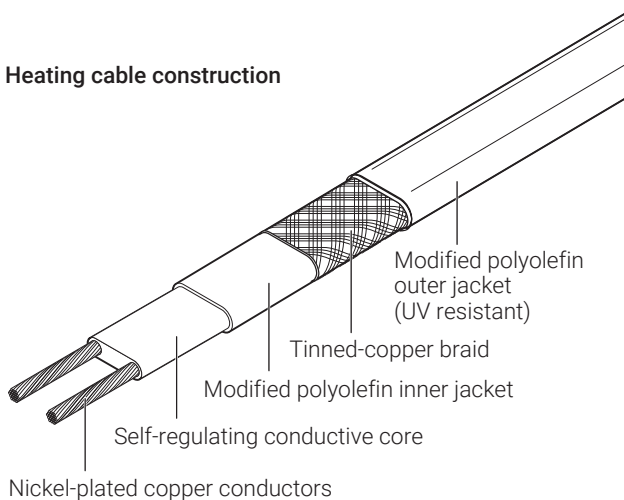


## SELF-REGULATING HEATING CABLES FOR PIPE FREEZE PROTECTION, ROOF & GUTTER SNOW MELTING AND DE-ICING

Heating cable construction



### PRODUCT DESCRIPTION

nVent RAYCHEM Frostop Black heating cable provide pipe freeze protection as well as roof and gutter snow melting and de-icing for following applications:

- Roofs comprising standard roofing materials, including slate, shingle, tar, wood, metal, and plastic.
- Gutters of standard materials, including metal, plastic, and wood.
- Drainpipes and other regular water or waste water pipes of standard materials, including metal and plastic.

The heating element of a Frostop Black consists of a continuous core conductive polymer extruded between two copper conductors. As current flows through the core, the heating cable regulates its heat output in accordance with ambient conditions. The self-regulating feature eliminates hot spots and results in better temperature control to protect plastic and metal pipes, roof and gutter materials.

### ADVANTAGES

#### Easy-to-install

The Frostop Black heating cable's parallel circuitry allows it to be cut to the exact length. Such characteristics simplify and streamline the design of both pipes freeze protection and roof and gutter snow melting system.

Installation is quick and simple. Features that make the heating system easy to install in new build projects, or as part of ongoing during building renovation.

## TECHNICAL DATA

|                                         |                                                                   |
|-----------------------------------------|-------------------------------------------------------------------|
| Product description and order reference | nVent RAYCHEM FROSTOP BLACK (PCN 559303-000)                      |
| Power Output (nominal)                  | 18 W/m @ 5°C on metal pipe<br>28 W/m @ 0°C in ice water           |
| Supply Voltage                          | 230 Vac                                                           |
| Max circuit length                      | 80 m                                                              |
| Minimum installation temperature        | -18°C                                                             |
| Maximum exposure temperature            | 65°C cont. power on (85°C intermittent)                           |
| Product dimensions                      | 10,5 mm x 5,5 mm                                                  |
| Conductors                              | 1,2 mm <sup>2</sup> nickel-plated copper                          |
| Braid/Outer Jacket                      | Tinned-copper braid with modified polyolefin outer jacket         |
| Weight                                  | ~130 g/m                                                          |
| Minimum Bending Radius                  | 13 mm                                                             |
| Connection Kits                         | nVent RAYCHEM heat shrink connection kits must be used CCE-03-CR. |

## APPROVALS



nVent RAYCHEM Frostop Black heating cables are CE approved and SEMKO Certified, and approved only when used with nVent RAYCHEM connection kits and accessories.

## HEATING CIRCUIT LENGTHS

|                      | Voltage | Max. circuit length |      |      |      |      |
|----------------------|---------|---------------------|------|------|------|------|
| Circuit breaker size |         | 6 A                 | 10 A | 13 A | 16 A | 20 A |
| FROSTOP BLACK        | 230 V   | 30 m                | 50 m | 65 m | 80 m | -    |

Maximum circuit length calculated based on minimum start-up temperature @ 0°C, 230 VAC.

## Europe, Middle East, Africa

Tel +32.16.213.511  
Fax +32.16.213.604  
thermal.info@nVent.com



nVent.com

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