

## Pre-terminated extreme high quality heating cable for snow- and deicing of surfaces

### PRODUCT OVERVIEW



### Description

The nVent RAYCHEM WINTERGARD-CABLE is a constant output heating cable for simple, fast and effective ramp and accessway heating to prevent snow and ice formation. The pre-terminated WINTERGARD-CABLE comes complete with a 5 m cold lead, removing the need for on-site termination activities. Simply install the heater over the required area and connect the cold lead to the power junction box and control unit. The WINTERGARD-CABLE is particularly suited to track heating of ramps, loading bays, and driveways, but also emergency escape routes and pedestrian walkways. The WINTERGARD-CABLE is designed for applications for 230 VAC or where a 3 phase (400 V) supply is available.

### PRODUCT SPECIFICATIONS

#### Design phase

- Simple design
- Pre-defined power output dependent upon cable spacing (Up to 300 W/m<sup>2</sup>)
- Variety of sizes available to meet project requirements

#### Installation phase

- EASY: Pre-terminated heating cable requires no onsite cold lead or end seal connections. Dual wire cable system means only one cold lead needs to be connected to the power supply and controller
- FAST: Heating cable can be fixed to an existing reinforcement bar or with fixing strips from nVent

#### The applications

- Excellent for irregular shaped areas
- Pedestrian walkways – Pavement heating to reduce personally injury liability around commercial buildings, hospitals etc.
- Vehicle accessways and loading bays
- Emergency exits – Keeping escape routes clear and safe
- Top surface: Cement screed, pavers stone and smaller asphalt areas

## Technical details

Voltage	230 Vac or 400 Vac	
Nominal power	30 W/m	
Maximum exposure temperature	65°C (in operation)	105°C rated temperature (non-operation)
Short-term temperature resistance	240°C	For max. 15 Min
Minimum install temperature	-5°C	
Circuit breaker required	Type C RCD: 30 mA	
Cable construction	Twin core, constant power output heating cable	
Material	Insulation: Outer jacket:	High temperature Cross linkable Polymer insulation Special Cross-linked Polyolefin
Color	Outer jacket: Black	
TWIN heating conductors	Solid wires	
Shielding	Copper drain wire with 100% aluminum tape	
Cold lead	Length: 5 m	Wires: 3 x 1,5 mm <sup>2</sup> or 3 x 2,5 mm <sup>2</sup>
Cable diameter	7 mm	
Deformation resistance	>1500 N	
Tensile strength	>300 N	
Bending radius	50 mm	
Cable spacing	Minimum 100 mm	
IP class	IP X7	
Certification	CE, UKCA, EAC	IEC 60800:2021

## APPROVALS

For use in non-hazardous areas

CE: compatible IEC 60800: 2021

### Product certification



## ORDERING INFORMATION

Product name - 230 VAC	Reference number	Length (m)	Power output @230 V	Cable resistance (Ω) Min/Max	Cold lead conductor	EAN code
WINTERGARD-CABLE-230V-20M	1244-022769	20	600 W	83.8/97.0	3G x 1,5 mm <sup>2</sup>	5414506024241
WINTERGARD-CABLE-230V-29M	1244-022770	29	850 W	59.1/68.5	3G x 1,5 mm <sup>2</sup>	5414506024258
WINTERGARD-CABLE-230V-38M	1244-022771	38	1100 W	45.7/52.9	3G x 1,5 mm <sup>2</sup>	5414506024265
WINTERGARD-CABLE-230V-47M	1244-022772	47	1400 W	35.9/41.6	3G x 1,5 mm <sup>2</sup>	5414506024272
WINTERGARD-CABLE-230V-57M	1244-022773	57	1700 W	29.6/34.2	3G x 1,5 mm <sup>2</sup>	5414506024289
WINTERGARD-CABLE-230V-67M	1244-022774	67	2000 W	25.1/29.1	3G x 1,5 mm <sup>2</sup>	5414506024296
WINTERGARD-CABLE-230V-75M	1244-022775	75	2250 W	22.3/25.9	3G x 1,5 mm <sup>2</sup>	5414506024302
WINTERGARD-CABLE-230V-84M	1244-022776	84	2500 W	20.1/23.3	3G x 1,5 mm <sup>2</sup>	5414506024319
WINTERGARD-CABLE-230V-94M	1244-022777	94	2800 W	17.9/20.8	3G x 1,5 mm <sup>2</sup>	5414506024326
WINTERGARD-CABLE-230V-112M	1244-022778	112	3350 W	15.0/17.4	3G x 1,5 mm <sup>2</sup>	5414506024333
WINTERGARD-CABLE-230V-134M	1244-022779	134	4000 W	12.6/14.5	3G x 2,5 mm <sup>2</sup>	5414506024340
WINTERGARD-CABLE-230V-150M	1244-022780	150	4500 W	11.2/12.9	3G x 2,5 mm <sup>2</sup>	5414506024357
WINTERGARD-CABLE-230V-168M	1244-022781	168	5000 W	10.1/11.6	3G x 2,5 mm <sup>2</sup>	5414506024364

Product name - 400 VAC	Reference number	Length (m)	Power output @400V	Cable resistance (Ω) Min/Max	Cold lead conductor	EAN code
WINTERGARD-CABLE-400V-26M	1244-022761	26	780 W	194.9/225.6	3G x 1,5 mm <sup>2</sup>	5414506024166
WINTERGARD-CABLE-400V-35M	1244-022762	35	1050 W	144.8/167.6	3G x 1,5 mm <sup>2</sup>	5414506024173
WINTERGARD-CABLE-400V-62M	1244-022763	62	1860 W	81.7/94.6	3G x 1,5 mm <sup>2</sup>	5414506024180
WINTERGARD-CABLE-400V-121M	1244-022764	121	3630 W	41.9/48.5	3G x 1,5 mm <sup>2</sup>	5414506024197
WINTERGARD-CABLE-400V-172M	1244-022765	172	5160 W	29.5/34.1	3G x 1,5 mm <sup>2</sup>	5414506024203
WINTERGARD-CABLE-400V-210M	1244-022766	210	6300 W	24.1/27.9	3G x 1,5 mm <sup>2</sup>	5414506024210
WINTERGARD-CABLE-400V-250M	1244-022767	250	7500 W	20.3/23.5	3G x 2,5 mm <sup>2</sup>	5414506024227

## RELATED PRODUCTS

nVent RAYCHEM Programmable ramp heating control with ambient temperature, ground temperature and moisture sensors including nVent RAYCHEM panels should be used, in order to get full nVent RAYCHEM extended system warranty.

Product name	Reference number	Description
RAYSTAT-M2*	1244-016962	DIN rail mounted control for surface snow melting and roof/gutter de-icing
VIA-DU-20*	599514-000	VIA-DU-20 electronic temperature and moisture sensing controller
EM2-SPACER-PL	1244-005177	Spacer rail, plastic, 5 m length, grid 25 mm
VIA-SPACER-10 M	198398-000	Spacer rail, metal, 10 m length, for asphalt
VIA-SPACER-25 M	893869-000	Spacer rail, metal, 25 m length, for asphalt

\*Controller will be mounted in nVent RAYCHEM panels. Please contact nVent Thermal technical service for further information.

## PRE-INSTALLATION GROUND PREPARATION

The heating cable should be installed on a stable subsurface. In suspended structures the substratum may consist of finished slabs, pre-stressed concrete or a suspended structure with poured concrete. The heating cables can be laid on all sub surfaces including reinforcement grids/bars. In the case of poured concrete, it should be ensured that the surface is smooth and all sharp objects are removed. Ramps on a solid substratum do not require any additional thermal insulation. Appropriate preparations should be made for installing the temperature and moisture sensor.

Recommended split/gravel sizes for sand bed or cement concrete:

Round grain gravel: Ø 8-16 mm

Grit/Broken grain: Ø 4-8 mm

## INSTALLATION INSTRUCTION

Complete installation instructions are supplied with the product and are available electronically from nVent. Please request installation instruction reference: RAYCHEM-IM-EU2079-WinterGardCable-ML.

## SPECIFICATION GUIDELINE

A product specification guideline is available upon request from nVent. It is also available online at [nVent.com/RAYCHEM](http://nVent.com/RAYCHEM)

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