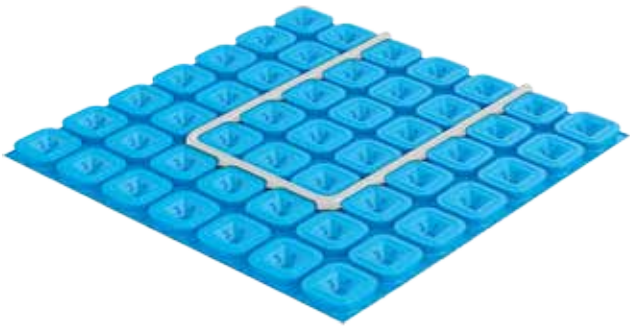
PRODESO HEAT GRIP CABLE



DESCRIPTION

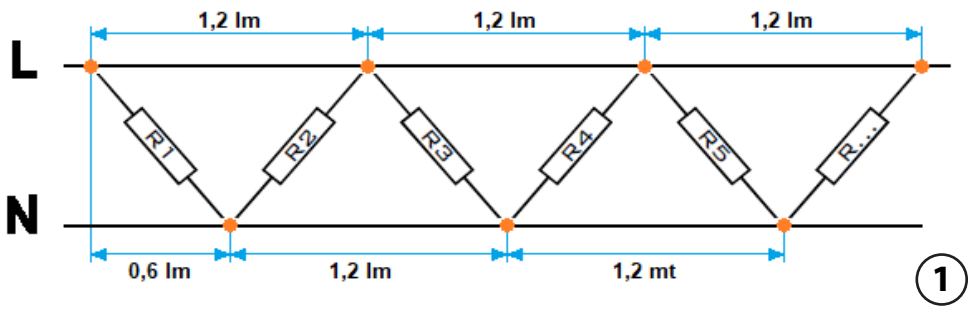
PRODESO HEAT GRIP CABLE is a cable made up of many electric resistors in parallel. The cable, available in a lot of lengths, consists of a cold and a warm part; the connection between the two parts is made impermeable by a thermo-retracting cap.

MATERIAL

PRODESO HEAT GRIP CABLE is a cable made up of many electrical resistors, with a length of 60 cm, connected in parallel (drawing 1). The cable, available in a lot of lengths, is made up of a cold part and a warm one. The cold part, 2.5 lm length, is covered with PVC. The hot part, available in a lot of lengths, is covered with silicone. The connection cold part and hot one and the terminal junction is made impermeable by a thermo-retracting cap (drawing 2). The cable has a total diameter of 6.5 mm. It is composed of two conductors with a diameter of 1.13 mm each one protected by a silicone insulating sheath with a thickness of 8 mm. The resistor cable wound around the conductors (drawing 3).
The cable, with a voltage of 230 V, develops a power of 12.5 W / mt.

PRODUCT PLUS

In case of cable damage only the involved resistor stops.
Even if the cable is shortened the power per linear meter does not change.



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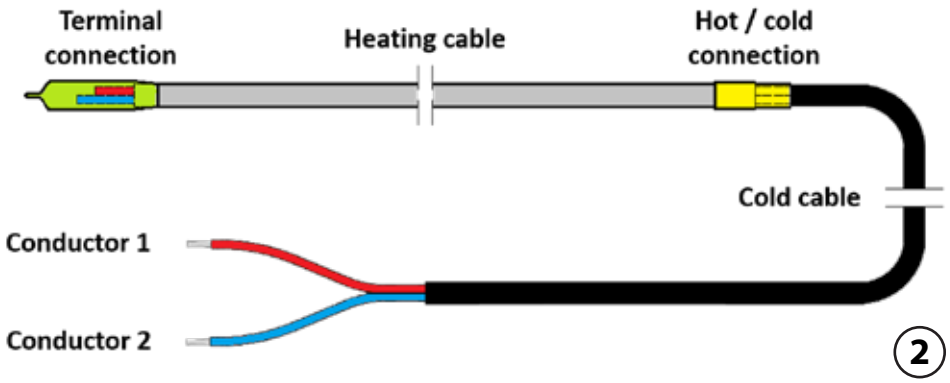

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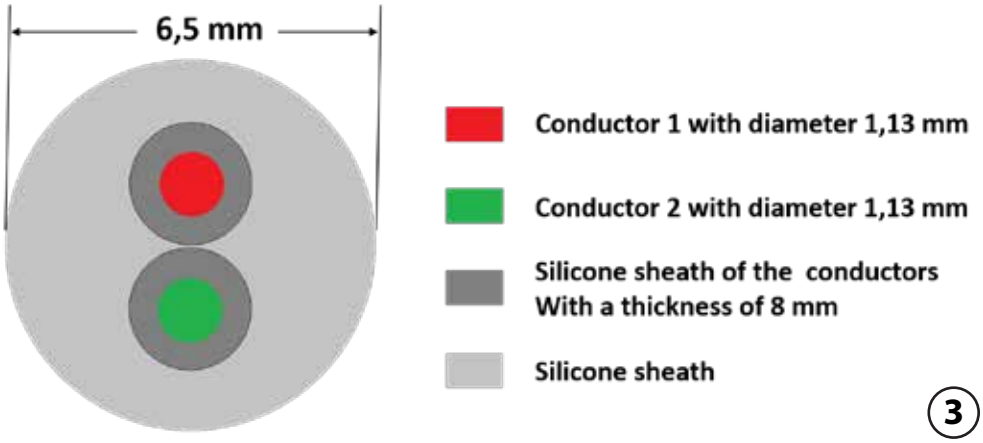

3

PRODESO HEAT GRIP CABLE

AREAS OF USE

Use

Installation of electric floor and wall heating systems using **PRODESO HEAT GRIP MEMBRANE** and **PRODESO HEAT THERMOSTAT KIT**.

Do not use

As heating cable for any application where the cable is exposed to UV rays

WARNINGS

Do not power the cable when it is still in the original packaging but only after laying it on the membrane. Observe the following during installation:
a) heating cables must not touch or cross each other
b) heating cables must not cross expansion or structural joints
c) heating cables must not connected directly to the power
d) the transition between cold and hot cable must never be bent
e)heating cables must be installed at least 30 mm away from conductive construction components (e.g. water pipes)
f) heating cables must be kept separate from other heat sources such as illumination equipment and chimneys
g) heating cables must not installed where non suspended bathroom furniture, shower tray, bath tub and furniture will be laid
h) heating cables must not installed where carpets or rugs more than 10 mm. in thickness will be placed
i) heating cables must not be installed where fixed wardrobes will be placed without feet or enclosed with skirting
j) structures that need fixing with rawlplugs and screws must not be installed in areas where the heating cables are laid
k) heating cables and junction boxes must be installed so that the temperature sensor or conductor can be connected without extensions
l) heating cables must not be laid at temperatures below 5° C
m) It is possibile to walk on the heating cables, using shoes with rubber soles, only during laying and when strictly necessary

In case of cable installation with a pitch of 9.3 cm (every 3 reliefs) the installed power is 140 W / m2 while in the case of installation with a pitch of 6.2 cm (every 2 reliefs) the installed power is 210 W / m2 (see table). The installation with a pitch of 3.1 cm is not permitted.

LAYING INSTRUCTIONS

Lay **PRODESO HEAT GRIP MEMBRANE** on the support; in this regard, refer to the installation instructions on the specific technical data sheet.
Once the power to be installed has been decided and then the cable pitch, procede as follows:

1) Insert the cold cable into the corrugated pipe that reaches to the thermostat.
2) Cut the excess cold cable after laying about 30 cm of it on the floor.
3) Insert the cables inside the channels.
4) Insert both floor temperature sensors into the corrugated pipe that reaches to the thermostat.
5) Place the floor temperature sensors exactly in the middle of two cables and at a distance of at least 70 cm from walls and fixed structures. Cut the excess cable.
6) Once the installation is complete, connect the cable and one floor temperature sensor to the thermostat.

TEXT TEMPALTE FOR TENDERS

Supply and installation of cable made up of many electrical resistors, with a length of 60 cm, connected in parallel. The cable, available in a lot of lengths, is made up of a cold part and a warm one. The cold part, 2.5 lm length, is covered with PVC. The hot part, available in a lot of lengths, is covered with silicone. The connection cold part and hot one and the terminal junction is made impermeable by a thermo-retracting cap. The cable has a total diameter of 6.5 mm. It is composed of two conductors with a diameter of 1.13 mm each one protected by a silicone insulating sheath with a thickness of 8 mm. The resistor cable wound around the conductors (drawing 3). The cable, to be powered with 230 V, develops a power of 12.5 W / mt, type PRODESO HEAT GRIP CABLE of the Progress Profiles company.

PDEGCB ...: Heating cable

Cable length : _____ mt
Cable number : _____ pz
Laying : _____ €/lm
Total value : _____ €/lm

PRODESO HEAT GRIP CABLE

Article	Cable length lm	Surface warmed on wall with a pitch of 6,2 cm	Surface warmed on floor with a pitch of 9,3 cm	Total power W
PDHGCB 20	19,8	1,19 m^2	2,0 m^2	250
PDHGCB 26	25,8	1,55 m^2	2,5 m^2	325
PDHGCB 31	30,8	1,83 m^2	3,0 m^2	385
PDHGCB 36	36	2,14 m^2	3,5 m^2	450
PDHGCB 40	40,2	2,38 m^2	4,0 m^2	500
PDHGCB 46	46,2	2,74 m^2	4,5 m^2	575
PDHGCB 52	52,2	3,10 m^2	5,0 m^2	650
PDHGCB 62	61,8	3,69 m^2	6,0 m^2	775
PDHGCB 72	72	4,29 m^2	7,0 m^2	900
PDHGCB 82	82	4,88 m^2	8,0 m^2	1025
PDHGCB 94	94	5,60 m^2	9,0 m^2	1175
PDHGCB 104	103,8	6,19 m^2	10,0 m^2	1300
PDHGCB 132	132	7,86 m^2	12,5 m^2	1650
PDHGCB 158	157,8	9,40 m^2	15,0 m^2	1875

TECHNICAL DATA

Cable diameter	≈ 6,5 mm ± 0,15
Cable colour	Light grey
Conductor diameter	≈ 1,13 mm ± 0,02
Thickness of conductors insulating sheath	≈ 0,8 mm
Cold cable length	≈ 2,5 mt ± 0,2
Cold cable insulating	PVC
Hot cable length	Come da tabella
Tot cable length	Silicone
Voltage	230 V
Cable power	12,5 W / ml
Resistor length	60 cm ± 1
Dielectric strength	1500 V x sec
Electrical resistance 60 cm	7053 (6412 ÷7837) Ohm
Cable electrical resistance	11755 (10687 ÷13062) Ohm / mt
Temperatura di esercizio	-50 ÷ +80 °C