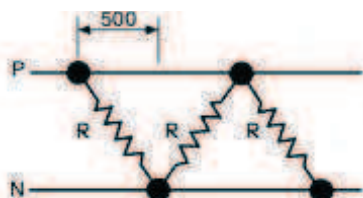
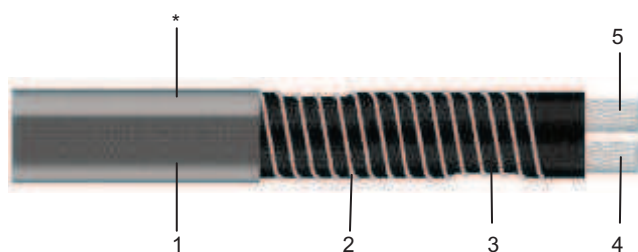


# SPC - CPC

## CONSTANT POWER PARALLEL HEATING CABLE – CPCx

The structural technology of this heating wire allows to solve installation problems in a practical and safe way and at a reduced price. It is the ideal solution in situations requiring flexibility of use, an easy assembly and a quick performance. Thanks to its peculiarity of providing constant power per metre, both depending on temperature variations and on the length of the heating circuit, it can be cut, pieced and connected directly by the operator during the installation, with few easy and quick operations. Among the manifold advantages offered by this heating cable, attention should be paid to the possibility to control the operation status of each heating circuit, and to the easiness and low price of assembly thanks to the accessories that Calorflex can provide for its application (see technical specifications of accessories).

## STRUCTURAL SKETCH AND EQUIVALENT ELECTRIC CIRCUIT



- 1 – Silicone rubber insulation with optional outer metal protection (\* at request)
- 2 – Nickel-Chromium alloy heating wire (R)
- 3 – Contact points at intervals of 500mm
- 4 – Multi-wire copper conductor (N)
- 5 – Multi-wire copper conductor (P)

Two conductors with an appropriate section (P-N), insulated in silicone rubber, are wound in a Nickel-Chromium alloy wire which constitutes the active and heating part of the cable. This wire is alternatively connected to two conductors through contact points, specially positioned at regular intervals of 500mm, thus forming, from an electrical point of view, a series of parallel resistances of equal value (R). Applying the input voltage to one end of the heating circuit and leaving the other end open, all the resistances receive power with the same voltage and therefore dissipate the same power, owing to the Joule effect. Consequently, the power per meter provided will always be constant at any temperature, independently from the length of the circuit.

In order to guarantee electrical insulation, high temperature performance, flexibility and resistance to corrosion and to chemical agents, the cable is coated with a protective sheath made of silicone rubber with the adequate thickness that can be further clad in a multi-wire metal braiding in order to enhance resistance to shocks and

abrasions, improve the thermal exchange and guarantee the heating cable earthing when requested.

# CPC : CONSTANT POWER HEATING CABLE

Description	Code	Power	Ø cable	Weight
SPCA 10	028010001	10 W/m	3,5 mm	0,020 kg/m
SPCA 15	028020001	15 W/m	3,5 mm	0,020 kg/m
SPCA 20	028030001	20 W/m	3,5 mm	0,020 kg/m
SPCA 25	028040001	25 W/m	3,5 mm	0,020 kg/m
SPCA 30	028050001	30 W/m	3,5 mm	0,020 kg/m
SPCA 40	028060001	40 W/m	3,5 mm	0,020 kg/m
CPCA 10	028110001	10 W/m	5*7 mm	0,058 kg/m
CPCA 15	028120001	15 W/m	5*7 mm	0,058 kg/m
CPCA 20	028130001	20 W/m	5*7 mm	0,058 kg/m
CPCA 25	028140001	25 W/m	5*7 mm	0,058 kg/m
CPCA 30	028150001	30 W/m	5*7 mm	0,058 kg/m
CPCA 40	028160001	40 W/m	5*7 mm	0,058 kg/m

We realize personalized power W/m - Look at page 98 the Technical sheet

Description	Code	Power	Ø cable	Weight
External metal shield	SPCB 10	10 W/m	4 mm	0,022 kg/m
	SPCB 15	15 W/m	4 mm	0,022 kg/m
	SPCB 20	20 W/m	4 mm	0,022 kg/m
	SPCB 25	25 W/m	4 mm	0,022 kg/m
	SPCB 30	30 W/m	4 mm	0,022 kg/m
	SPCB 40	40 W/m	4 mm	0,022 kg/m
	CPCB 10	10 W/m	5*7 mm	0,064 kg/m
	CPCB 15	15 W/m	5*7 mm	0,064 kg/m
	CPCB 20	20 W/m	5*7 mm	0,064 kg/m
	CPCB 25	25 W/m	5*7 mm	0,064 kg/m
	CPCB 30	30 W/m	5*7 mm	0,064 kg/m
	CPCB 40	30 W/m	5*7 mm	0,064 kg/m

We realize personalized power W/m - Look at page 100 the Technical sheet

Description	Code	Height	Length	Weight
Assembling hit	028000000			0,010 kg
TAPE 25*	020000003	25 mm	50 m	0,215 kg
TAPE 50*	020000004	50 mm	50 m	0,430 kg

\* Aluminum tape reinforced with polyester, acrylic adhesive

Assembling kit

## GENERAL CHARACTERISTICS

- Volt supply 230 Vac (on demand)
- Working temperatures from - 60°C to +200°C (+230°C for short periods)
- Maximum allowable length of cut for SPC: (Voltage x 5) / Wm
- Maximum allowable length of cut for CPC: (Voltage x 8) / Wm
- Minimum curvature radius: Ø cable \* 4

## PROVISIONS AND REFERENCE HOMOLOGATIONS

- Design, manufacture and testing in compliance with harmonized standards EN 60335
- In compliance with 73/23/EEC DIRECTIVE
- declaration of conformity on all items

## GENERAL TESTS AND PACKING

The cable is supplied in measured plastic or cardboard bobbins for a further reworking on part of the customer. The standard measures of the bobbins are: 150m – 250m – 400m.



Aluminum tape

