

# CP - CP/T - CP/TW - CP/I - CP/IW PVC insulated cables



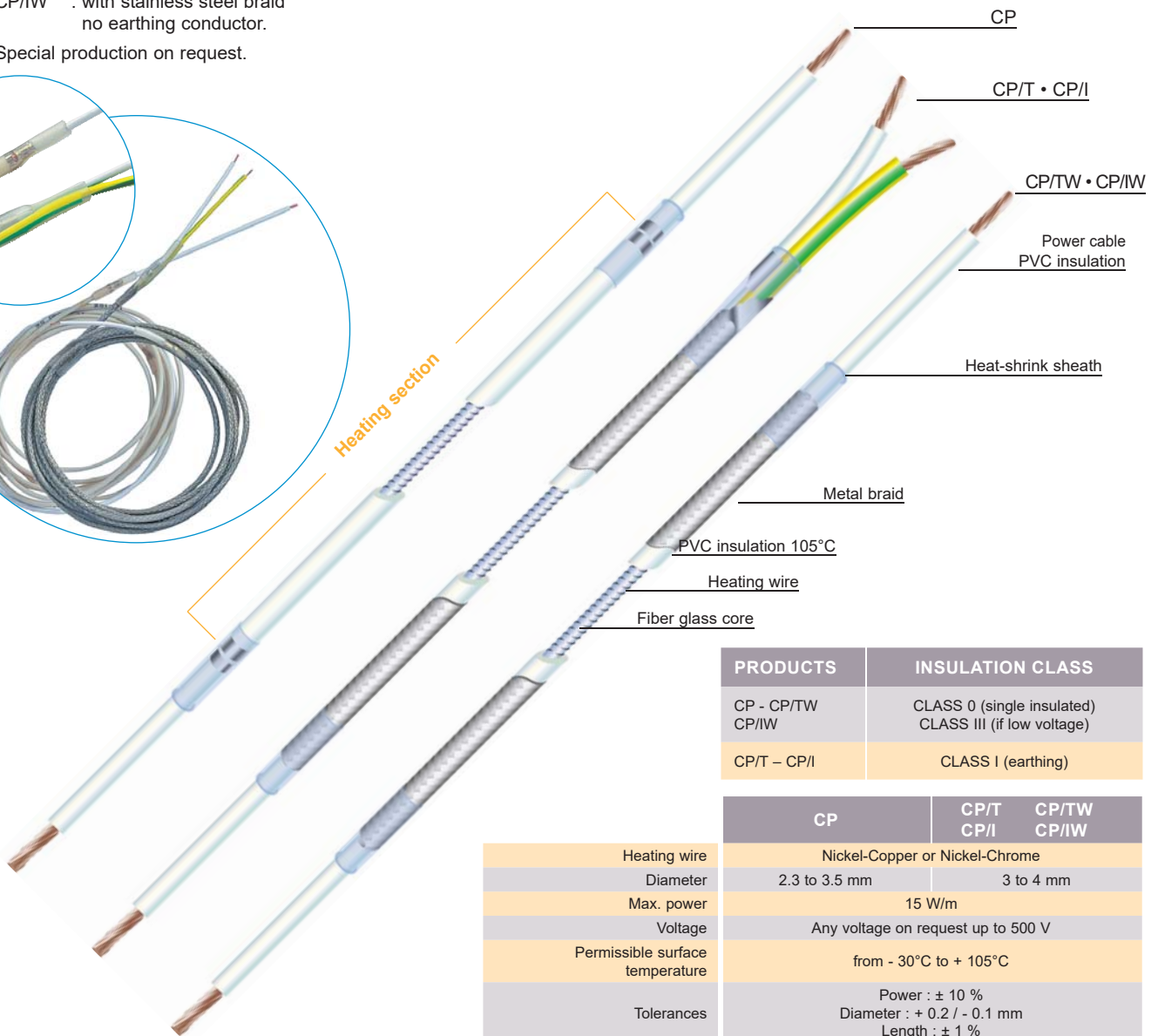
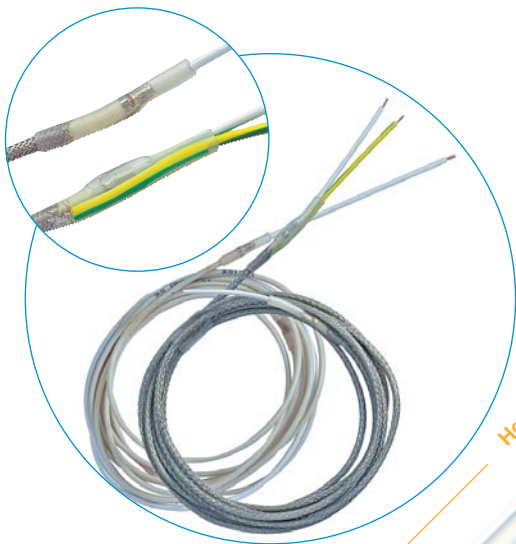
## Characteristics

- Power cable: standard length: 1 m.
- CP : PVC insulated cables.
- CP/T : with tinned copper braid and earthing conductor.
- CP/TW : with tinned copper braid no earthing conductor.
- CP/I : with stainless steel braid and earthing conductor.
- CP/IW : with stainless steel braid no earthing conductor.
- Special production on request.

## Applications

CP, CP/T, CP/TW, CP/I and CP/IW heating cables are mainly used in the household electrical and refrigeration industries and for equipment where protection against freezing or temperature maintenance is necessary.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



PRODUCTS	INSULATION CLASS
CP - CP/TW CP/IW	CLASS 0 (single insulated) CLASS III (if low voltage)
CP/T - CP/I	CLASS I (earthing)

	CP	CP/T CP/I	CP/TW CP/IW
Heating wire	Nickel-Copper or Nickel-Chrome		
Diameter	2.3 to 3.5 mm	3 to 4 mm	
Max. power	15 W/m		
Voltage	Any voltage on request up to 500 V		
Permissible surface temperature	from - 30°C to + 105°C		
Tolerances	Power : ± 10 % Diameter : + 0.2 / - 0.1 mm Length : ± 1 %		
Connection insulation	Heat-shrink sheath with adhesive		
Ingress protection code	IP 55		
Minimum bending radius	6 x the diameter		

## Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

# CS - CS/T - CS/TW - CS/I - CS/IW Silicon elastomer insulated cables



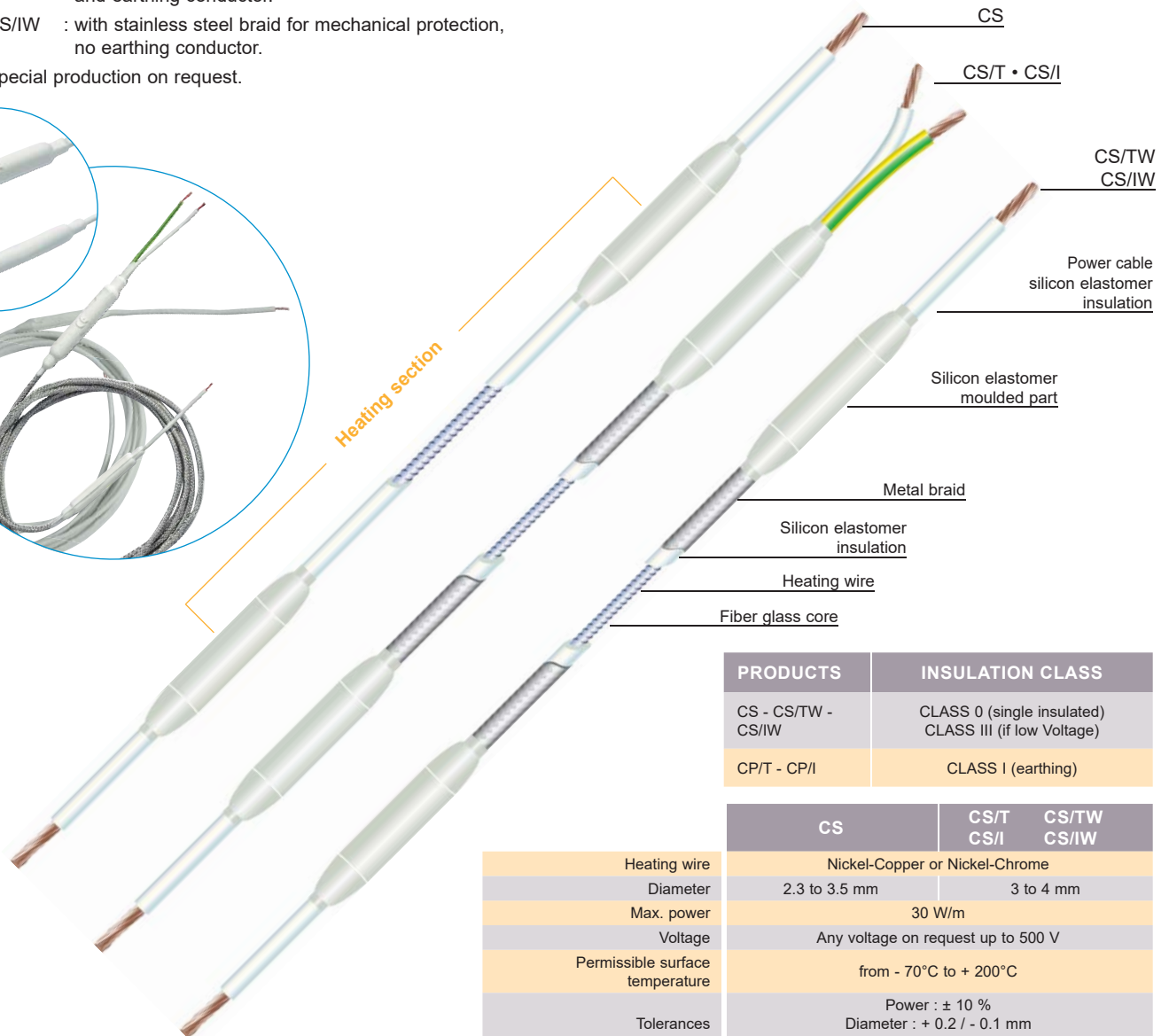
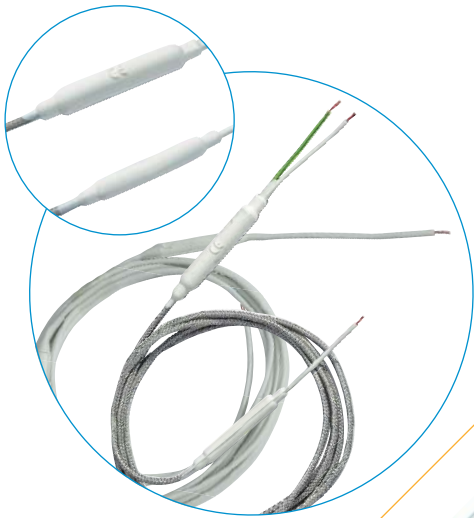
## Characteristics

- Connection insulated with a silicon moulding.
- Power cable: standard length: 1 m.
- CS : silicon elastomer insulated cables.
- CS/T : with tinned copper braid and earthing conductor.
- CS/TW : with tinned copper braid for mechanical protection, no earthing conductor.
- CS/I : with stainless steel braid and earthing conductor.
- CS/IW : with stainless steel braid for mechanical protection, no earthing conductor.
- Special production on request.

## Applications

CS, CS/T, CS/TW, CS/I and CS/IW heating cables are mainly used in the household electrical and refrigeration industries and for equipment where protection against freezing or temperature maintenance is necessary.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



PRODUCTS	INSULATION CLASS
CS - CS/TW - CS/IW	CLASS 0 (single insulated) CLASS III (if low Voltage)
CP/T - CP/I	CLASS I (earthing)

	CS	CS/T CS/I	CS/TW CS/IW
Heating wire	Nickel-Copper or Nickel-Chrome		
Diameter	2.3 to 3.5 mm	3 to 4 mm	
Max. power	30 W/m		
Voltage	Any voltage on request up to 500 V		
Permissible surface temperature	from - 70°C to + 200°C		
Tolerances	Power : ± 10 % Diameter : + 0.2 / - 0.1 mm Length : ± 1 %		
Connection insulation	Sealed silicon moulding		
Ingress protection code	IP 66		
Minimum bending radius	6 x the diameter		

## Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

# CP1 Terminated PVC insulated cables



## Characteristics

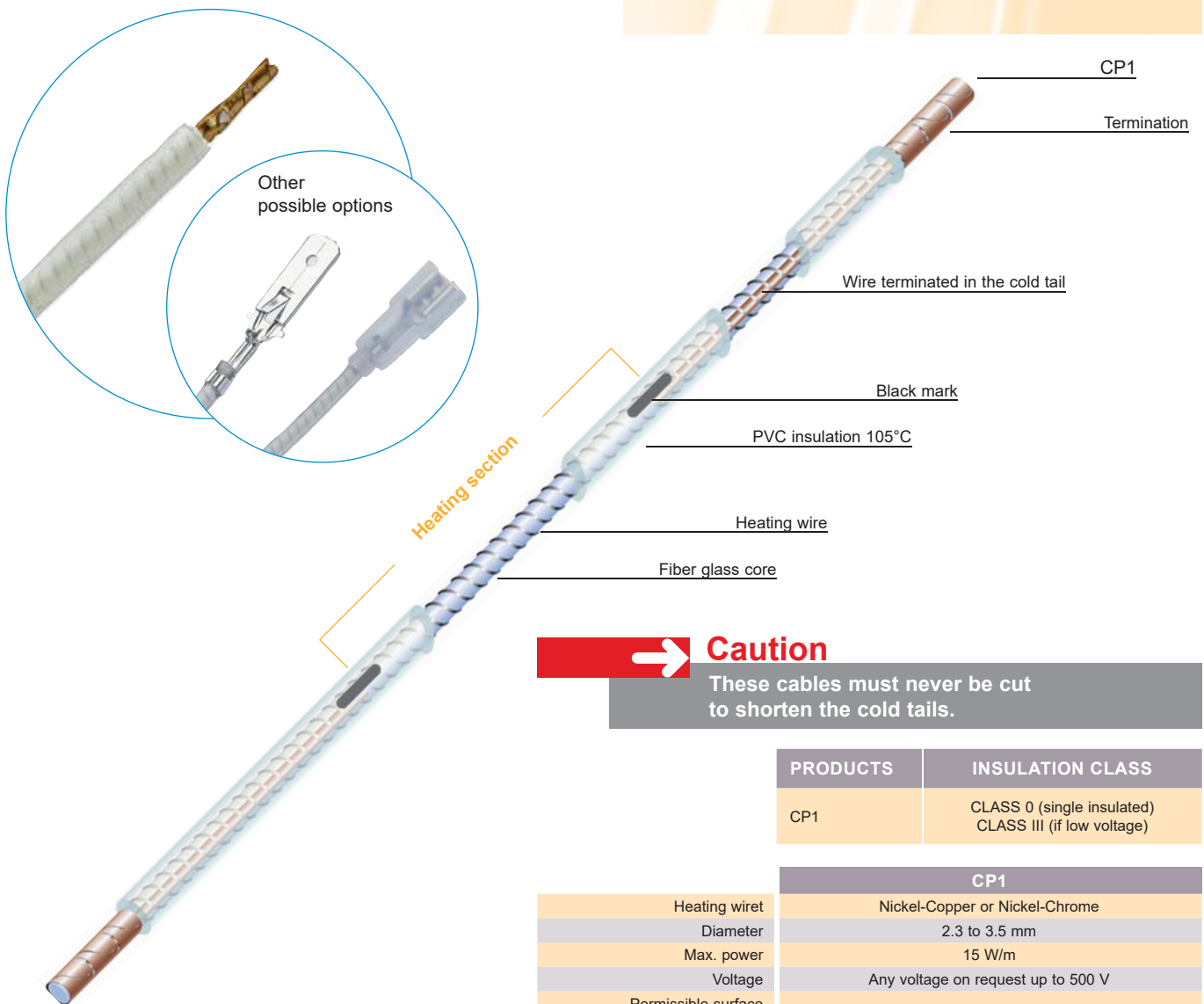
The main characteristic of this type of cable is that there is no extra thickness at the cold junction, identified with a black mark

- cables on request.
- Special production on request.

## Applications

CP1 heating cables are mainly incorporated in household electrical or refrigeration equipment and special, mass-produced machines requiring protection against freezing or temperature maintenance.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



**→ Caution**  
These cables must never be cut to shorten the cold tails.

PRODUCTS	INSULATION CLASS
CP1	CLASS 0 (single insulated) CLASS III (if low voltage)

CP1	
Heating wire	Nickel-Copper or Nickel-Chrome
Diameter	2.3 to 3.5 mm
Max. power	15 W/m
Voltage	Any voltage on request up to 500 V
Permissible surface temperature	from - 30°C to + 105°C
Tolerances	Power : ± 10 % Diameter : + 0.2 / - 0.1 mm Length : ± 1 %
Max. current	2 A
Ingress protection code	IP 66
Minimum bending radius	6 x the diameter

## Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

# CS1

## Terminated silicon elastomer insulated cables



### Characteristics

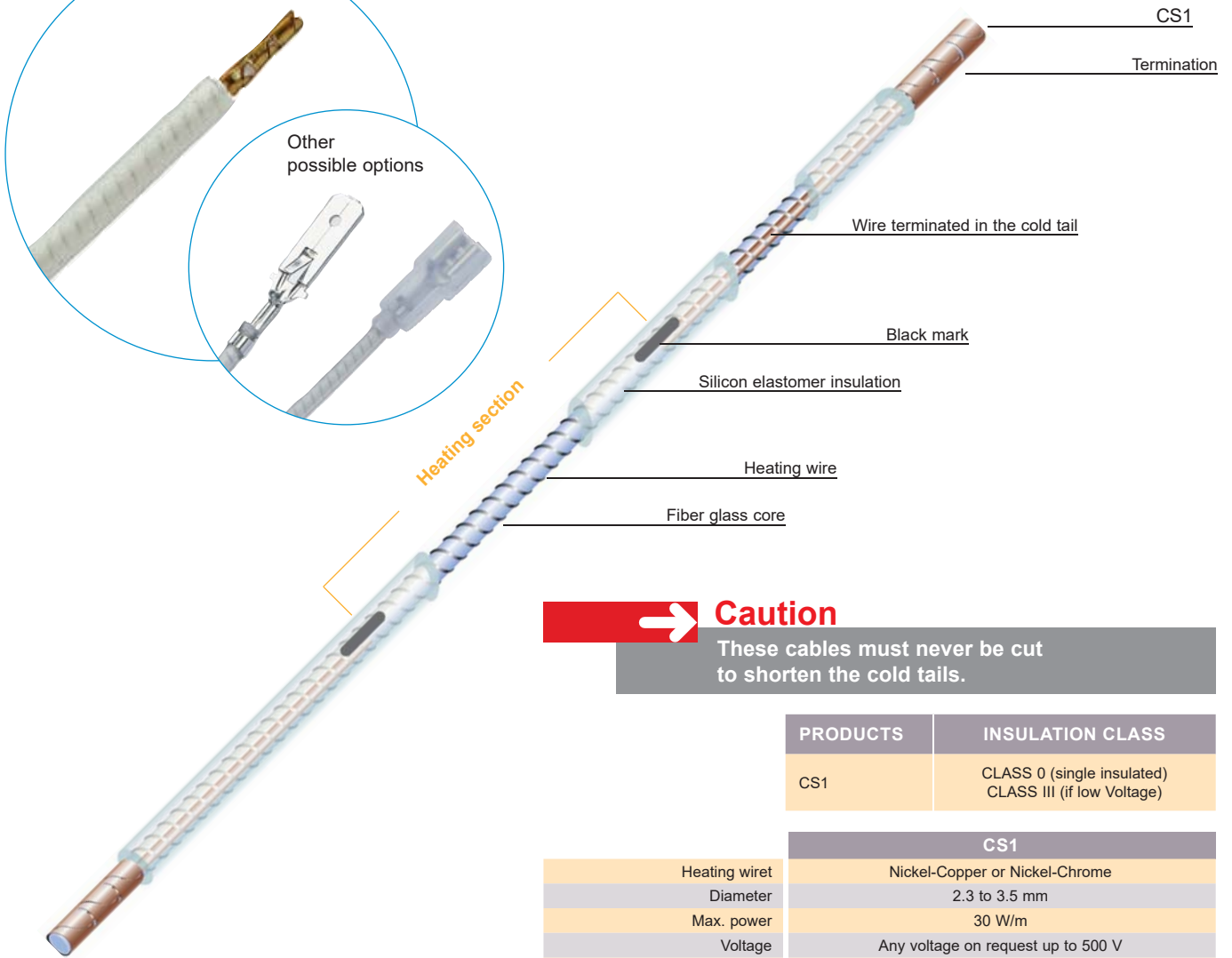
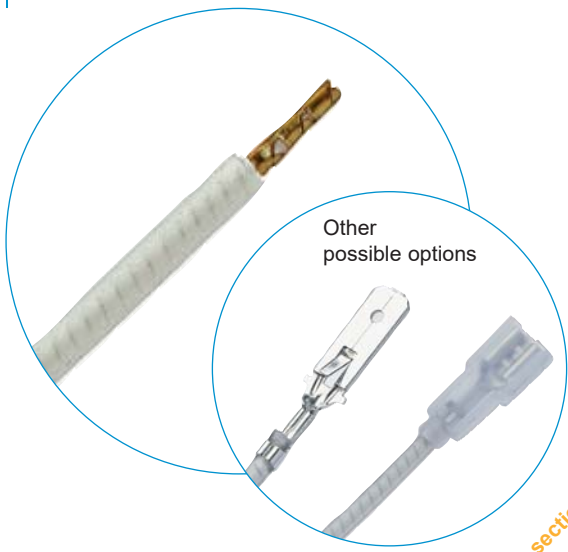
The main characteristic of this type of cable is that there is no extra thickness at the cold junction, identified with a black mark.

- cables on request.
- Special production on request.

### Applications

CS1 heating cables are mainly incorporated in household electrical or refrigeration equipment and special, mass-produced machines requiring protection against freezing or temperature maintenance.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



**Caution**  
 These cables must never be cut to shorten the cold tails.

PRODUCTS	INSULATION CLASS
CS1	CLASS 0 (single insulated) CLASS III (if low Voltage)

CS1	
Heating wire	Nickel-Copper or Nickel-Chrome
Diameter	2.3 to 3.5 mm
Max. power	30 W/m
Voltage	Any voltage on request up to 500 V
Permissible surface temperature	from - 70°C to + 200°C
Tolerances	Power : ± 10 % Diameter : + 0.2 / - 0.1 mm Length : ± 1 %
Max. current	2 A
Ingress protection code	IP 66
Minimum bending radius	6 x the diameter

### Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

# CS2 - CS2/T - CS2/TW - CS2/I - CS2/IW Silicon elastomer insulated cables



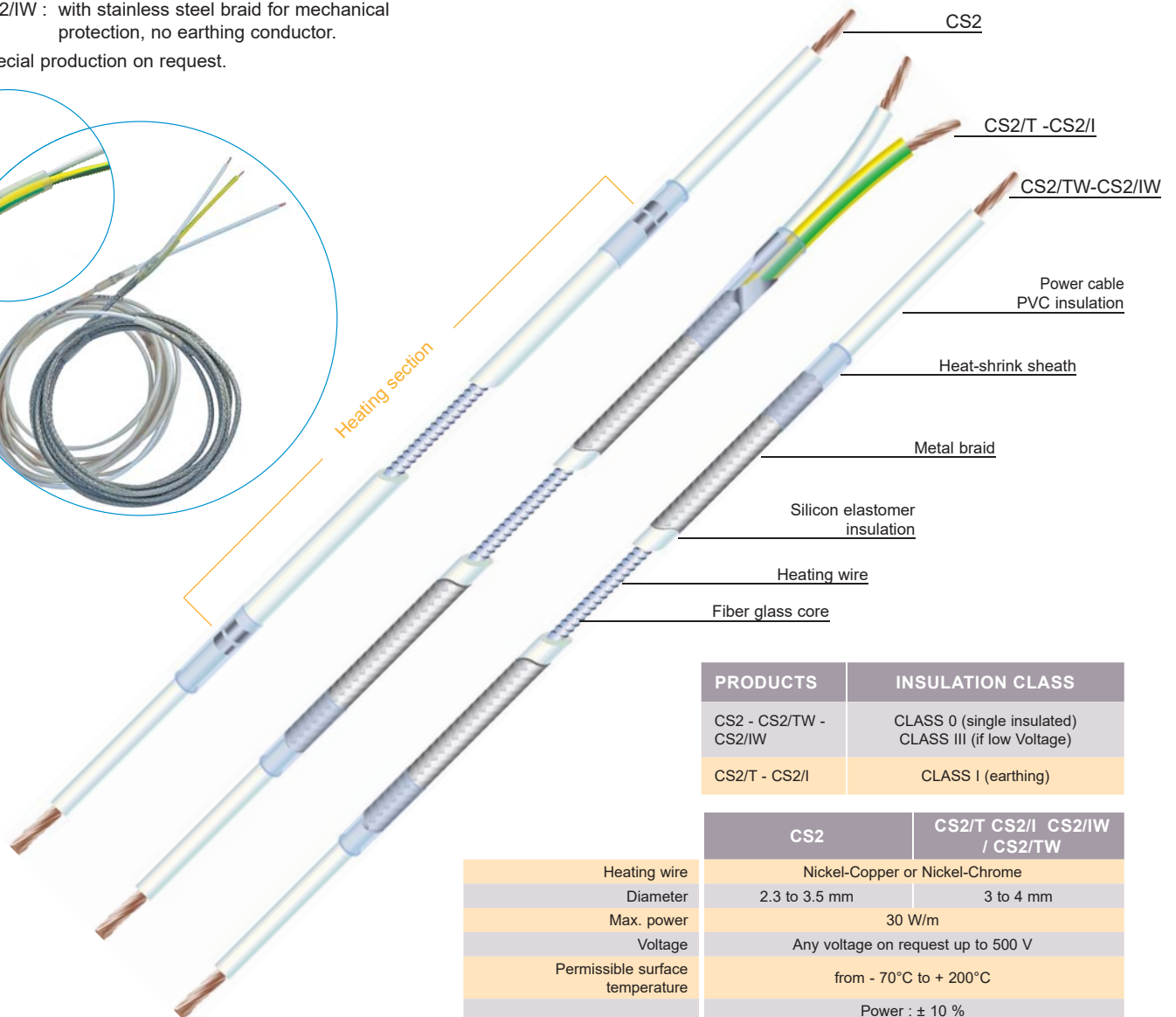
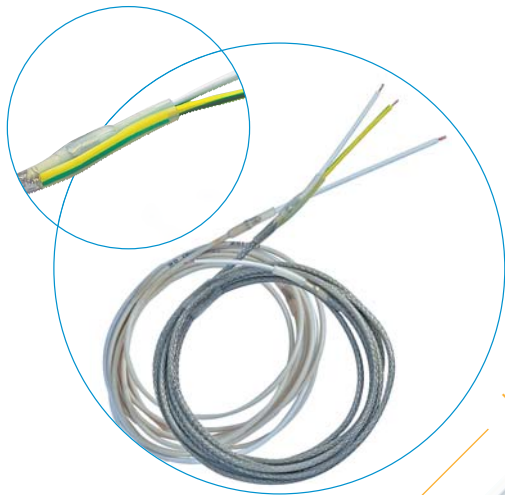
## Characteristics

- Power cable: standard length: 1 m.
- CS2 : Silicon elastomer insulated cables
- CS2/T : with tinned copper braid and earthing conductor.
- CS2/I : with stainless steel braid and earthing conductor.
- CS2/TW : with tinned copper braid for mechanical protection, no earthing conductor.
- CS2/IW : with stainless steel braid for mechanical protection, no earthing conductor.
- Special production on request.

## Applications

CS2, CS2/T, CS2/I, CS2/TW and CS2/IW heating cables are mainly used in the household electrical and refrigeration industries and for machines where protection against freezing or temperature maintenance is necessary.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



PRODUCTS	INSULATION CLASS
CS2 - CS2/TW - CS2/IW	CLASS 0 (single insulated) CLASS III (if low Voltage)
CS2/T - CS2/I	CLASS I (earthing)

	CS2	CS2/T CS2/I CS2/IW / CS2/TW
Heating wire	Nickel-Copper or Nickel-Chrome	
Diameter	2.3 to 3.5 mm	3 to 4 mm
Max. power	30 W/m	
Voltage	Any voltage on request up to 500 V	
Permissible surface temperature	from - 70°C to + 200°C	
Tolerances	Power : ± 10 % Diameter : + 0.2 / - 0.1 mm Length : ± 1 %	
Connection insulation	Heat-shrink sheath with adhesive	
Ingress protection code	IP 54	
Minimum bending radius	6 x the diameter	

## Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.

# CV/I Fibre glass insulated cables



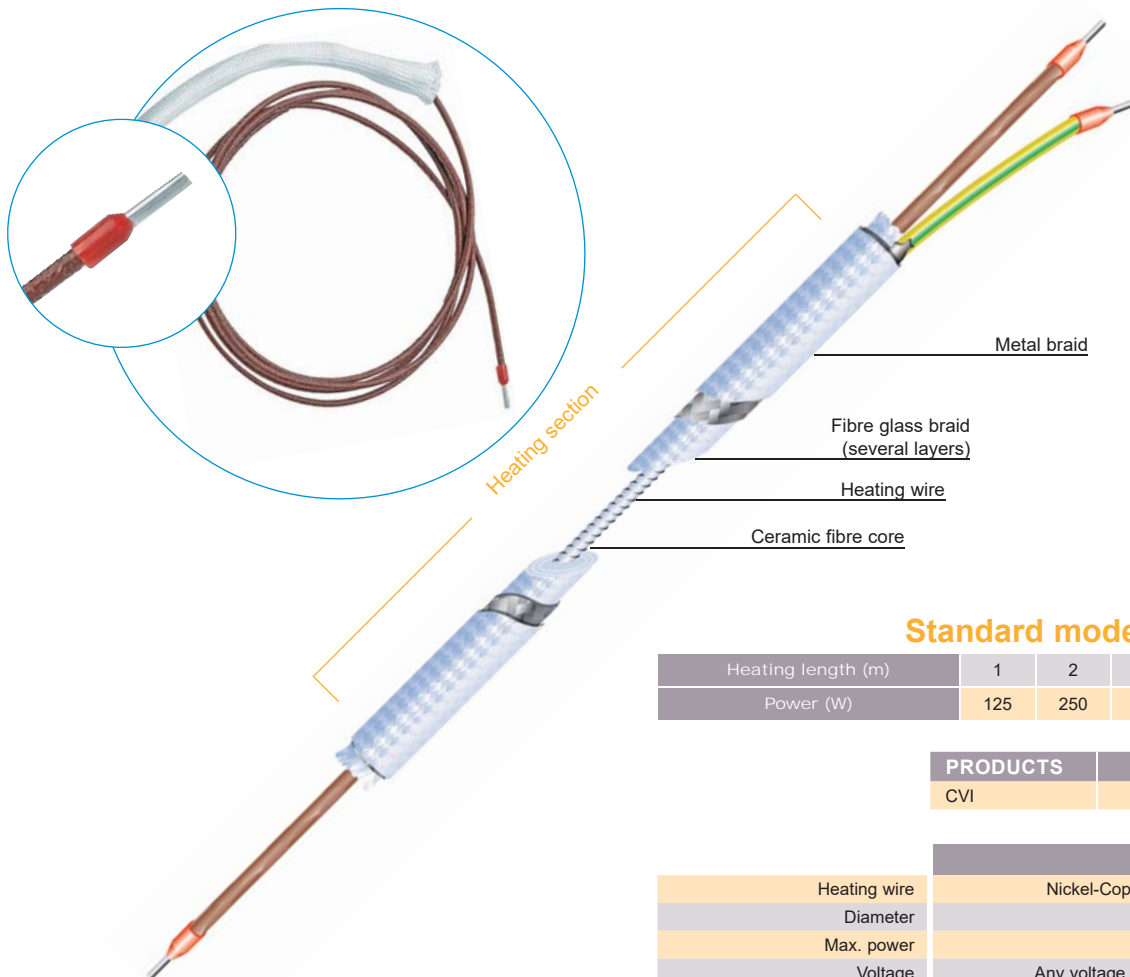
## Characteristics

- Highly flexible.
- High power: 125 W/m.
- High temperature, up to 450°C.
- Not protected against humidity.
- Minimum bend greater than 10 mm.
- Power cable : standard length 500 mm.
- Fibre glass insulated cables with stainless steel braid and earthing conductor.
- Special production on request.

## Applications

Fibre glass insulated CV/I heating cables are mainly for use in laboratories and in industrial applications when it is required to heat quickly to a high temperature. These cables are very flexible but as they are not sealed they can be used only in a dry atmosphere, and in compliance with the electrical protection instructions in force.

To ensure that these heating elements enjoy a long service life, we recommend using a control device.



## Standard models

Heating length (m)	1	2	4	6	8	10
Power (W)	125	250	500	750	1000	1250

PRODUCTS	INSULATION CLASS
CVI	CLASS I (earthing)

CV/I	
Heating wire	Nickel-Copper or Nickel-Chrome
Diameter	5 mm
Max. power	125 W/m
Voltage	Any voltage on request up to 230 V
Permissible surface temperature	up to + 450°C
Tolerances	Power : ± 10 % Diameter : ± 0.5 mm Length : ± 1 %
Connection insulation	Fibre class
Protection	With earth
Ingress protection code	IP 40

## Use

Heating cables are series resistors. Consult the pages of the catalogue devoted to the corresponding general operating principles, general instructions for use and accessories.