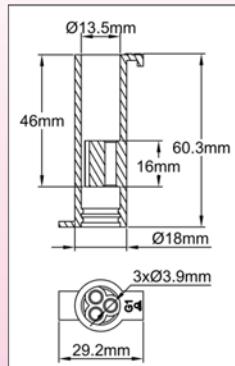


Connection systems for heating cables with silicone filling

Silicone connection sleeve, type G, for accessories with dia 14 mm tip.



Used to connect two or three conductors or a cable on :

- Anti-freeze thermostat
- Surface mount thermostat
- End Of Line indicator light
- Pt100 sensor
- NTC sensor

When the filling is done according to installation instructions, it provides an IP65 sealing.

After crimping the conductors, fits with a light grip on the 14 mm diameter cylindrical parts of the accessories.

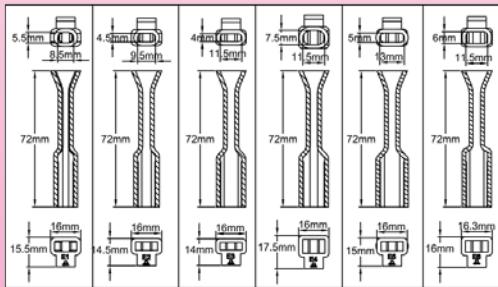
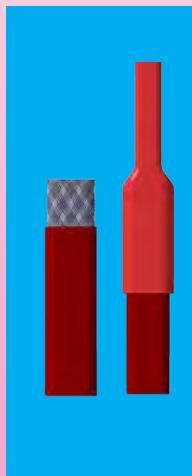
It has a holding tab for filling and a pulling tab to drag it in and internal guidelines that maintain a constant distance between connections when filling.

Average volume of silicon needed for filling: 5 ml (5 cm³).

Reference	6YTNG1M140000060
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Packaging: 10 pieces bag

Silicone sleeves type E, for self regulating heating cable end or constant power cable, or two conductors series cable.

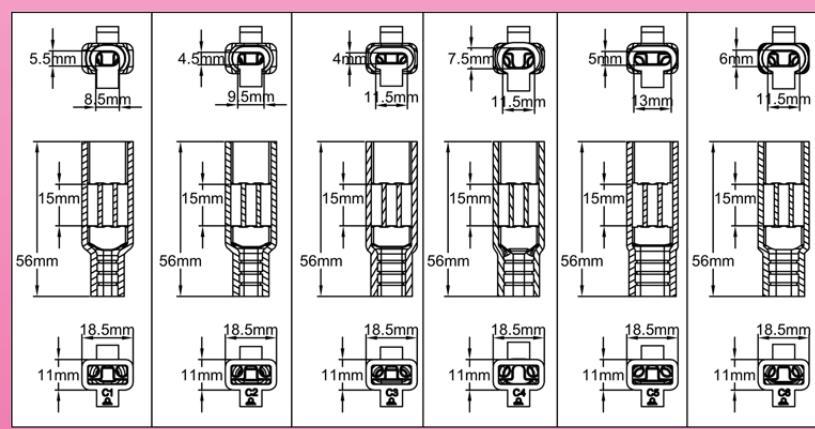
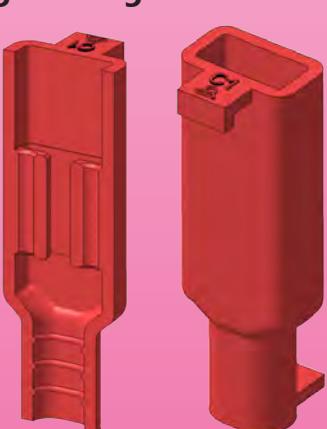
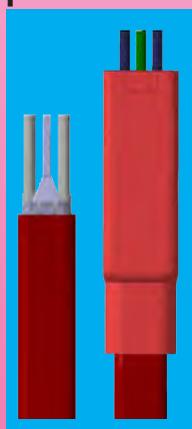


Reference	N°	Hole	Cable gauge
6YTNE1M085055072	E1	8.5 x 5.5	9 x 6 to 9.5 x 6.5
6YTNE2M095045072	E2	9.5 x 4.5	10 x 5 to 10.5 x 5.5
6YTNE3M115040072	E3	11.5 x 4	12 x 4.5 to 12.5 x 5
6YTNE4M115075072	E4	11.5 x 7.5	12 x 8 to 12.5 x 8.5
6YTNE5M130050072	E5	13 x 5	13.5 x 5.5 to 14 x 6
6YTNE6M115060072	E6	11.5 x 6	12 x 6 to 12.5 x 7

Slip by pressing lightly on the unconnected ends of heating cables. When the filling is done according to installation instructions, they provide an IP65 sealing. Include a funnel for easy RTV filling and a holding tab for filling. The square section allows pipe mounting with a wireclamp or clamp. These sleeves can possibly be cut in the middle after polymerization. Average volume of silicone needed for filling: 1.4 ml

Packaging: 10 pieces bag

Silicone connection sleeve type C for constant power heating cable parallel or self-regulating with protective and grounding metal braid.



They allow the connection of heating cables on non-heating conventional conductors. When the assembly and filling are performed according to installation instructions, they provide an IP65 seal.

Composed of a silicone sleeve adapted to heating cables, 3 x AWG15 wires (1.5 mm²) FEP insulated 300V, 300mm length (diameter 2.4 mm), equipped with a cable shoe and a tubular crimp terminal. The connection to the control boxes is made with the M20x1.5 accessories with 2.4mm holes.

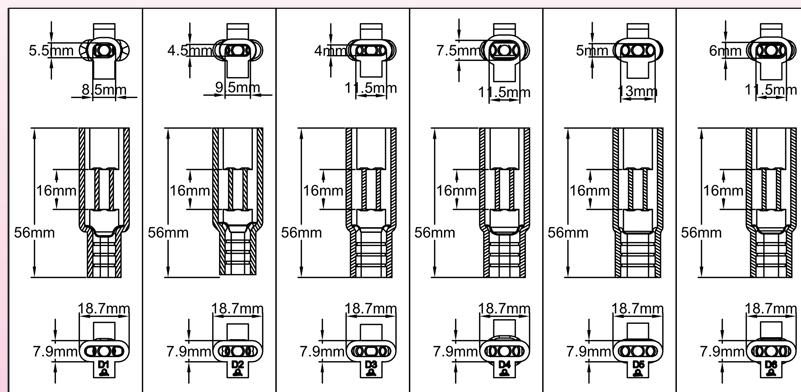
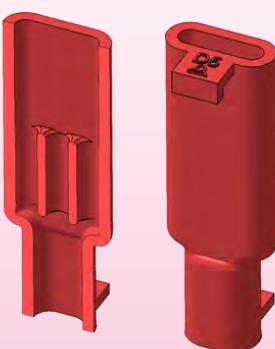
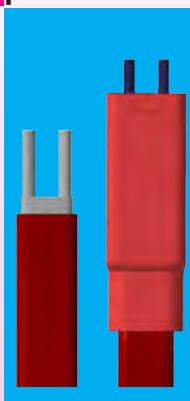
Average volume of silicon needed for filling: 1.6 ml

Packaging: 10 pieces bag

Reference	N°	Hole	Cable gauge
6YTNC13085055056	C1	8.5 x 5.5	9 x 6 to 9.5 x 6.5
6YTNC23095045056	C2	9.5 x 4.5	10 x 5 to 10.5 x 5.5
6YTNC33115040056	C3	11.5 x 4	12 x 4.5 to 12.5 x 5
6YTNC43115075056	C4	11.5 x 7.5	12 x 8 to 12.5 x 8.5
6YTNC53130050056	C5	13 x 5	13.5 x 5.5 to 14 x 6
6YTNC63115060056	C6	11.5 x 6	12 x 6 to 12.5 x 7

Connection systems for heating cables with silicone filling

Silicone connection sleeve type D for constant power heating cable parallel or self-regulating without protective and grounding metal braid.



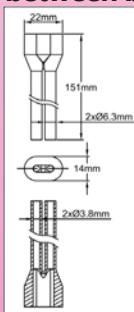
They allow the connection of heating cables on non-heating conventional conductors. When the assembly and filling are performed according to installation instructions, they provide an IP65 seal. Used with AWG15 wires (1.5 mm^2) FEP insulated 300V, 300mm length (diameter 2.4 mm), equipped with a cable shoe and a tubular crimp terminal. After crimping non-heating wires, the connection to the control box is made with the M20x1.5 accessories with 2.4mm holes.

Average volume of silicone needed for filling: 1 ml

Reference	N°	Hole	Cable gauge
6YTND1208505056	D1	8.5 x 5.5	9 x 6 to 9.5 x 6.5
6YTND2209504506	D2	9.5 x 4.5	10 x 5 to 10.5 x 5.5
6YTND32115040056	D3	11.5 x 4	12 x 4.5 to 12.5 x 5
6YTND42115075056	D4	11.5 x 7.5	12 x 8 to 12.5 x 8.5
6YTND52130050056	D5	13 x 5	13.5 x 5.5 to 14 x 6
6YTND62115060056	D6	11.5 x 6	12 x 6 to 12.5 x 7

Packaging: 10 pieces bag

Silicone connection sleeve type B for constant power or self-regulating heating cable, without non-heating patch, of which heating part between both conductors has been cut off.



Mounted on conductors of self-regulating cables which sleeve has been removed.

Wire crossing diameter: 4.3 mm

Oblong crossing gauge: 12 x 4 mm

Total length: 150 mm

Mounting: It is recommended to fill the sleeve with liquid silicone before putting it on the conductors. The possible metal braid must be twisted and is not inserted into the sleeve. Requires the use of cable gland packings with two or three slots. Sealing not guaranteed.

Average volume of silicone needed for filling: 1.4 ml

Reference	6YTNB12120040150
Packaging: 10 pieces bag	

Specific accessories for silicone filling

The filling silicone



Silicone Vulcanizing at room temperature. Very smooth, fills the caps well and without bubbles. Comes with a special nozzle that directs the liquid silicone in the desired location without spilling.

Color: red

Packaging: 45 ml tube.

Temperature resistance: 280°C.

Vulcanization time at room temperature: 12 to 24 hours depending on thickness

Vulcanized hardness: 35 Shore A

Volume resistivity: 4×10^{15} ohms/cm.

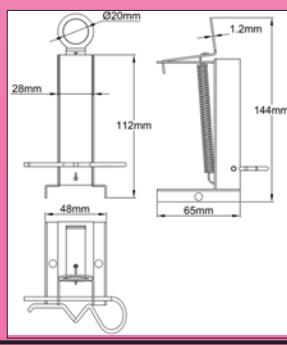
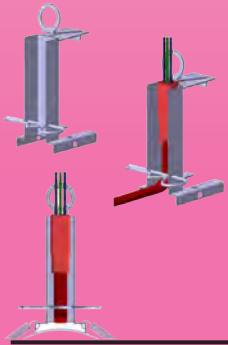
Displacement: 150%.

Breakdown voltage: 16KV/mm.

To be used on clean surfaces

Reference	6YTMC2000ELH062A
Packaging: 10 pieces bag	

Silicone filling stand



Intended for use with sealed connection sleeves types A, C, D, E, F, G. This stand keeps the pieces vertically while filling the liquid silicone on-site. Mounts directly during assembly on the pipe, with a plastic clamp or a spring, or is placed on a flat surface. It prevents the reversal of parts during filling. The sleeves and cable ends cling by their taps. Contact us for multiple mounting stand for wiring workshop

Reference	6YTTL002
Packaging: 10 pieces bag	



Sensors and accessories to be mounted in ISO M20x1.5 threads (type G sleeves)



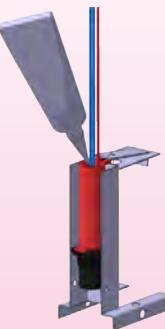
Cut the lead wires of the accessory to 13mm, strip the conductors of 6 to 8mm, twist them and insert the stripped portion into each tubular connector.



Crimp the tubular connectors with the hexagonal crimping pliers. The center of each crimp must be at around 4mm from the edge.



Insert the wires into the silicone sleeve. Make sure that the conductors are in their dedicated holes. Slip the sleeve on the wires to the stop after the locking grooves by using the bottom flap. The conductors are then entirely set in their places.

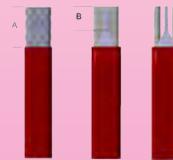


Position the assembly on the filling support and lock it with the upper flap of the sleeve, which has a flange for this purpose.
Fill with liquid silicone. It is possible to cut the insertion and filling flaps after polymerization.

Heating cables on non heating ends (Sleeves C and D)



Cut the ribbon to the requested length.



- Remove the outer protective jacket of 18mm (if any)
- If the cable has a metal braid, unbraid it (without cutting any wire) with the tip of a pen or a small metal rod with a rounded end, then group it and twist it in a continuous beam
- Remove the second protection jacket of 10 mm. minimum



Strip the two conductors of 6 to 8 mm, twist them and insert the exposed portion in each tubular connector. In the case of cable with metallic braid, insert the twist which is cut to the same length than the drivers in a tubular connector.



Crimp the tubular connectors with the hexagonal crimp pliers. The center of each crimp should be around 4 mm from the edge. Crimp one side of the heating cable and the other side on the non-heating conductors. If the cable has a metal braid, this braid is the ground conductor.



Insert the wires into the smallest part of the silicone sleeve. Ensure that the conductors are inserted in their dedicated holes. The central hole is for the ground conductor.



Slide the sleeve over the wires to the stop, using the flat flap located on the heating element side. The tubular conductors are then fully inserted in their places.



Position the assembly on the filling support and lock it with the flap which has a flange.



Fill with liquid silicone in the largest neck (connection wires outlet). It is possible to cut the insertion and filling flaps after polymerization.

Heating cable end (type E sleeves)



Cut the ribbon to the requested length. Remove 10 to 12 mm of the metal protective braid (if any) in order to ensure a good grip to the silicone. Make sure that none of the wires of this braid exceeds the cut length, which could cause short circuits.



Insert the silicone sleeve on the ribbon end to the stop by pulling the bottom flap.

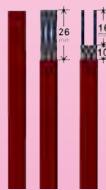


Position the assembly on the filling support and lock it with the upper flap of the sleeve, which has a flange for this purpose.
Fill with liquid silicone in the upper shell-hole.



It is possible to cut the insertion and filling flaps after polymerization if necessary.

Disc thermostat assembly (anti-freeze or other set points) on the end of line (type A sleeves)



Cut the ribbon to the requested length. Remove the first protective jacket. Remove 15 to 16mm of the second protective jacket and the metal braid to (if any).



Position the silicone sleeve on the heating ribbon . Strip 4mm on both conductors.



Solder both wires on the disc thermostat terminals. Then slide the sleeve until the thermostat goes to three stop in its place.



Position the assembly on the filling support and lock it with the upper flap of the sleeve, which has a flange for this purpose.
Fill with liquid silicone in the upper shell-hole. It is possible to cut the insertion and filling flaps after polymerization if necessary.

Connection methods for cables accessories with heat shrinkable sleeve



Strip the conductors of 6 to 8 mm, twist them and insert the stripped portion into each tubular connector. If both parts to connect are multi conductor cables, removing the protective jacket must be done on the appropriate length in order to properly slide a heat shrinkable sleeve. If the cable has a metal braid, unbraided it (without cutting any wire) with the tip of a pen or a small metal rod with a rounded end, then group it and twist it in a continuous beam. The conductors and the twisted braid must be the same lengths.



Crimp the tubular connectors with the hexagonal crimp pliers. If the cable has a metal braid, crimp a braid end in a tubular connector. The center of each crimp should be around 4 mm from the edge. Then slide a insulation sleeve on each conductor having a crimped tubular connector. Insert the other element conductors into the second end of the tubular connectors. Crimp. The center of each crimp should be around 4 mm from the edge.



Slide the shrinkable sleeves to a center position on the tubular connectors. Shrink the sleeves one after another with heat gun or a heat source. Do not exceed the shrinking temperature, as this may destroy the sheath or cause cracks.



After checking the integrity of the shrink sleeves, put a heat shrinkable sheath around the cable, on the sleeves, and shrink the same way. Similarly, it is possible to seal the opposite end as follows:
If the ribbon has a protective metal braid, remove a few millimeters of its outer jacket to improve the shrinkable sleeve grip. Ensure that no wire of this braid could be in contact with the conductors.

