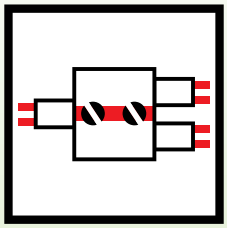
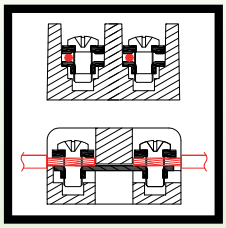
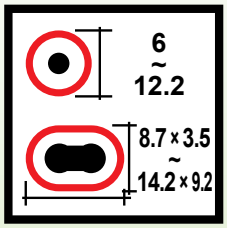
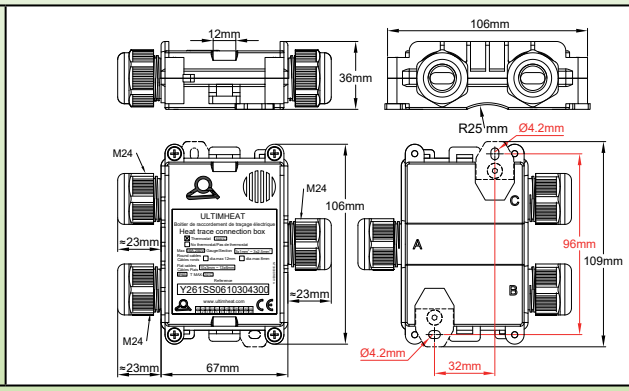
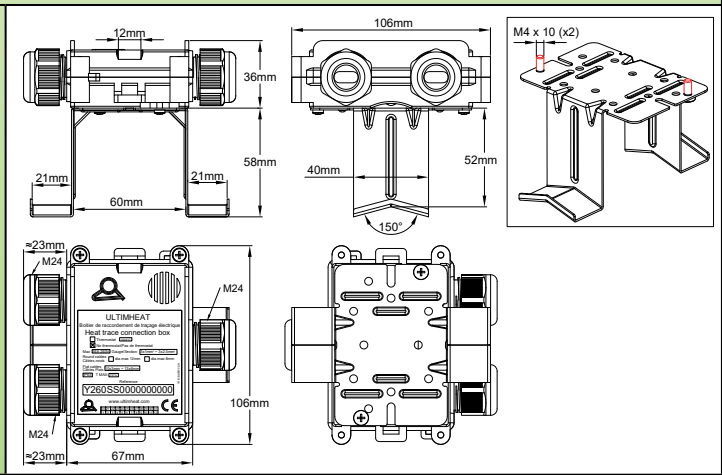
3 parallel ways connection box for heat tracing cables, with built-in antifreeze thermostat

3 parallel ways	Screw and square washer terminals	Wire gauge	Cables diameters		Type
		1~2.5mm²		RoHS REACH	Y261

Wall mounting



Mounting on pipe with a distant stainless steel mounting bracket



Example of mounting on pipe surface with nylon cable ties

Example of mounting on pipe with a distant stainless steel mounting bracket 6YTQT

3 parallel ways connection box for heat tracing cables, with built-in antifreeze thermostat

Applications

This box allows to connect, with a good IP65 ingress protection, 2 rounds or flat heating cable to a round power cable or providing at the same time the continuity of the power line.
The built-in disc thermostat provides the anti-freeze function.
It can be mounted on a flat surface, or on a pipe.
Terminals positions provide easy access, wiring is simple, including for braided heating cables.
Compatible with all types of flexible heating wires, round or flat.

Main features

Material: Polyamide 66 black, 90mm × 67mm × 36mm (Cable glands not included). Excellent UV resistance.
Waterproof grade: IP65
Thermostat: rating 16A 230V, open by temperature rise at 10°C +/-3°C, close at 4°C+/-3°C (Other temperatures on request)
Mounting: 2 removable wall mounting bracket, holes distance 96mm. Pipe mounting with cable tie also possible, by using the 2 rings located on the side of the box
Terminals:
- Screw terminals with captive toothed square washers accepting rigid or flexible conductors.
- The mechanical tightening of the cable is ensured by a screwed metal saddle, usable on round or flat cable.
This patented saddle also ensures the earthing of the metal braid of the heating cables.
- Wire gauge: 3 × 1mm² to 3 × 2.5mm²
- Maximum permissible intensity: 16A 250V
Cables outlet: with M24 cable glands, with 70 shore NBR gaskets (Silicone is available on request).
- Maximum diameter of round cables: 8; 12 or 14mm depending on the gaskets installed.
- Limit sizes of oblong cables:
- from 8 × 5 to 9.5 × 6mm
- from 9.5 × 2.5 to 11 × 3.5mm
- from 11 × 4 to 13 × 6mm
- from 12.5 × 8 to 14.2 × 9.2mm
For more information about tightening possibilities on round and oblong cables, see the catalogue page on 6YTP cable glands.
Safety sealing: supplied with 5 red plastic ties for use in the sealing holes
Easy assembly: Assembly is made with full access to terminals when cover is removed. Mounting on wall or pipe can be made with cover removed or cover assembled.
Accessories: Stainless steel bracket for mounting distant from the pipe, see accessories page 6YTQT.
Options: Model for 3 heating wires without power supply cable and model for one heating wire and 2 power supply cables.

Main part numbers

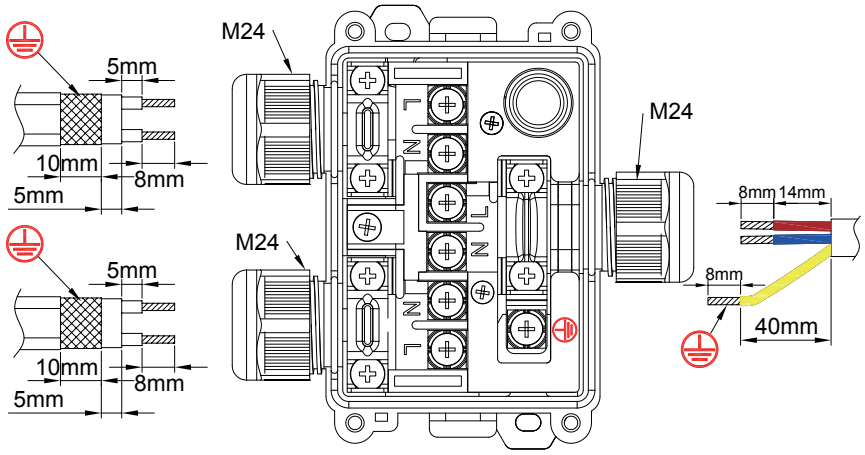
Y261SS06103004300	Includes a set of gaskets for round cables, 2 sets of gaskets for oblong cables and 2 metal tabs for pipe mounting

References	Seals on side A*	Seals on side B*	Seals on side C*
Y261PFF610304300	Silicone seal for round cable dia. 8mm max.	Silicone seal for oblong cable max. size 13x6mm	Silicone seal for oblong cable max. size 13x6mm
Y261KNN610304300	NBR seal for round cable dia. 8mm max.	NBR seal for oblong cable max. size 13x6mm	NBR seal for oblong cable max. size 13x6mm
Y261PSS610304300	Silicone seal for round cable dia. 8mm max.	Set of Silicone seal for oblong cables max. size 9.5x6 ; 11x3.5; 13x6 and 14.2x9.2mm.	Set of Silicone seal for oblong cables max. size 9.5x6 ; 11x3.5; 13x6 and 14.2x9.2mm.
Y261KXX610304300	NBR seal for round cable dia. 8mm max.	Set of NBR seals for oblong cables max. size 9.5x6 ; 11x3.5; 13x6 and 14.2x9.2mm.	Set of NBR seals for oblong cables max. size 9.5x6 ; 11x3.5; 13x6 and 14.2x9.2mm

* Silicone seals recommended for ambient temperature higher than 80°C

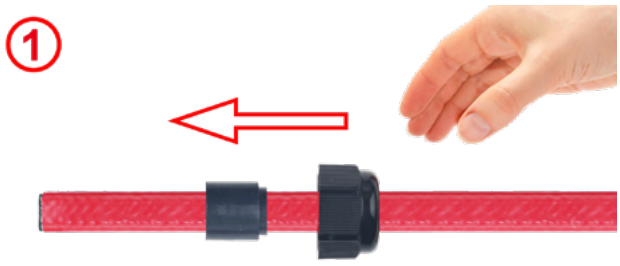
3 parallel ways connection box for heat tracing cables, with built-in antifreeze thermostat

Stripping dimensions of round and oblong cables

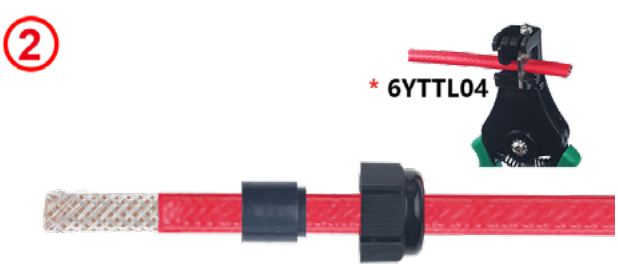


Self-regulating cables assembly steps

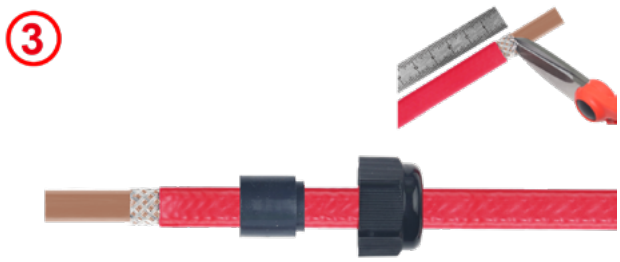
(More details on the different methods of preparing termination for various types of cables are available in the technical introduction).



1: After selecting the cable gland seal to the recommended size for the cable type, pass the heating cable through the gland nut and its seal.



2: Strip the outer jacket of the heating cable to the required length.



3: Cut the braid to the requested size

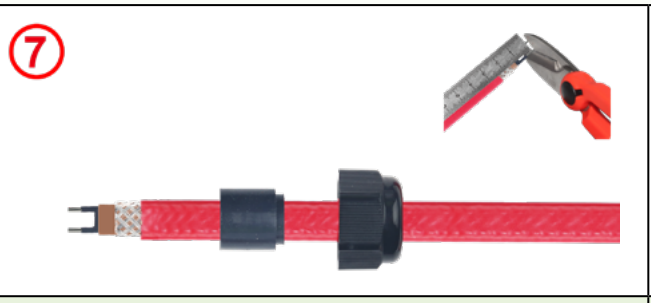
4: Strip the insulating jacket around the heating part to the required length.

5: Cut the heating part between the two bus wires to the required length.

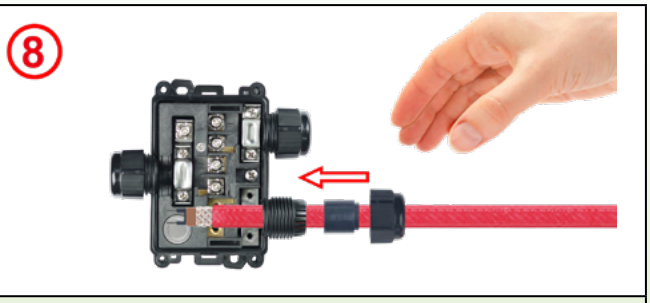
6: Strip the two bus wires over the required length.

* These exclusive tools are available in accessories section

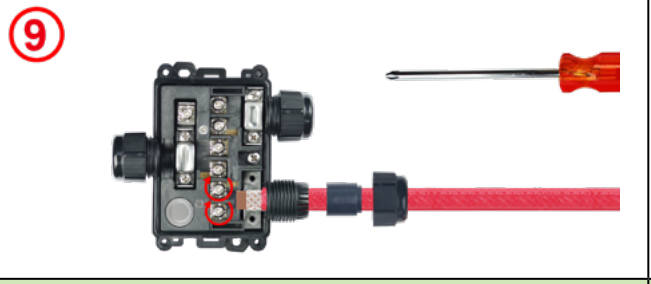
3 parallel ways connection box for heat tracing cables, with built-in antifreeze thermostat



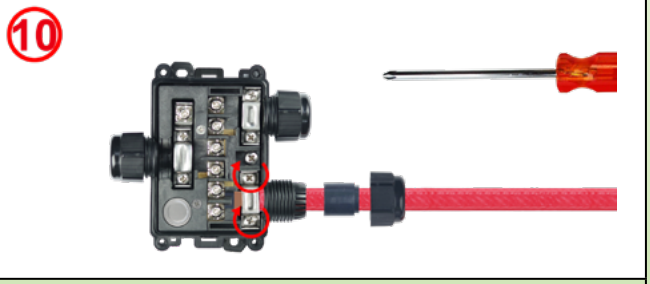
7: If necessary, cut the stripped bus wires to length.



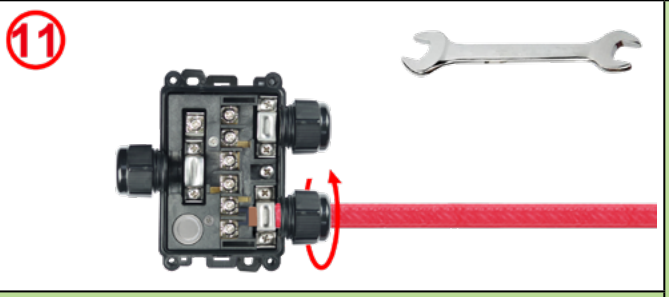
8: Unscrew and remove the saddle, unscrew and remove the terminal screws if necessary, then pass the cable through the cable gland.



9: Put the bus wire and the braid at the place they will be tightened. Tighten the terminal block screws on the bus wires. Recommended torque 1.2 Nm

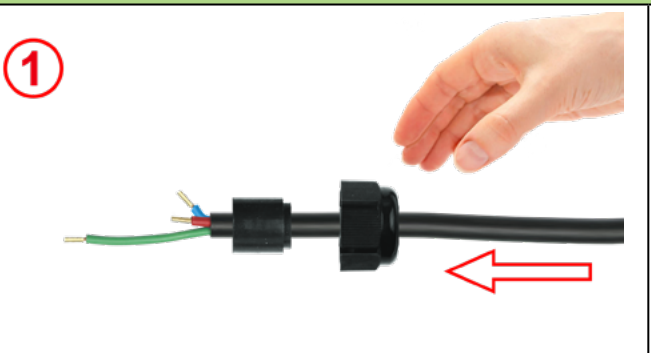


10: Replace the saddle and tighten it on the metal braid. Recommended torque 1.2 Nm



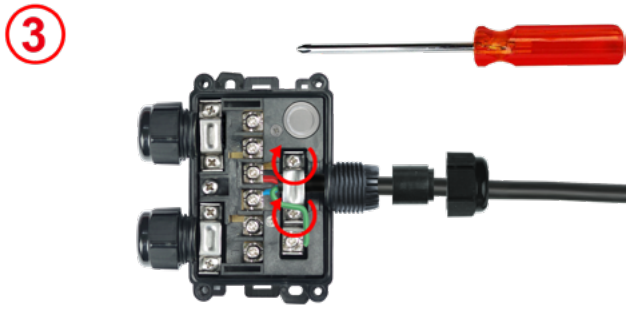
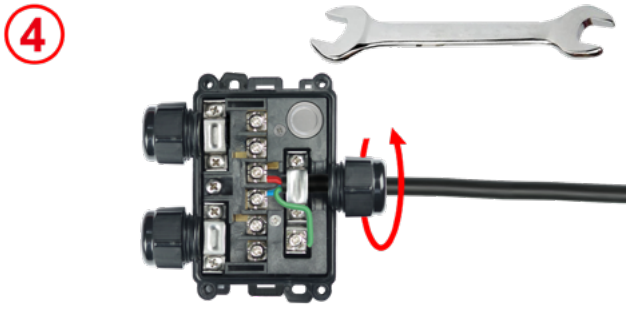
11: Slide the flat cable gasket into the cable gland and tighten the nut. Maximum torque 3Nm. Connect any other cables and close the lid.

Round cable assembly steps



1: Remove outer insulation on round cable as requested by drawing. Eventually, crimp cable shoes.
Slide the cable gland nut on the cable. Select the compatible diameter gasket and slide it on the cable

2: Put the neutral, line and ground wires inside the screw terminals and tigthen them. Recommended torque 1.2 Nm

	
3: Tigthen the saddle screw. Recommanded torque 1.6 Nm	4: Slide the round cable seal into the cable gland and tighten the nut. Maximum torque 3N.m.