Prysmian Group

INSTALLATION INSTRUCTION

SMALL JOINT CLOSURE

Part Number: Various

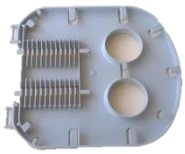
Description

- **The Small Joint Closure is for both outside plant and indoor optical fibre network for splicing applications**.
- Up to 12 cables via 4 cable glands can be installed into the closure to a maximum spliced fibre capacity of 24.
- The splice tray supplied with the joint can accommodate up to 24 splices.
- The closure is supplied with sufficient components for the preparation, installation, and routing of two cables.
- Up to six additional cables can be added using Cable Entry Kits.

Tools & Additional Items Required

Additional Items Required:	**Prysmian Part No.**
Splice protectors	XKTSC00050
Optional Items:	**Prysmian Part No.**
Cable Entry Kit	XJTSC02336
Miniduct seal for 7/1.25mm	XBFSC01541
Tools:	Marker pen Measure tape Tube stripper Ideal grey 45-162 Tube stripper Ideal blue 45-163 Flat screwdriver Hammer Cable tie gun Scissor Eden tube cutter Ripley 400 Fibre tube slitter

Component Parts (pictures not to scale)

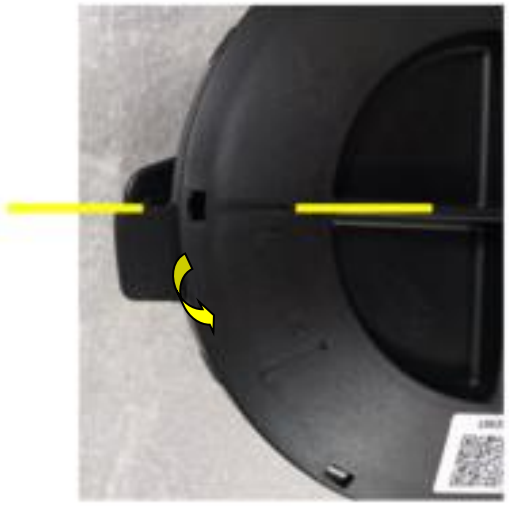
1 Small Joint Closure Base + Cover Qty 1 	2 Cable management plate Qty 1 	3 Splice tray Qty 1 	4 O-ring Qty 1 
5 Cable Entry kit Qty 2 	6 Cable tie Qty 2 	6 Foam tape Qty 2 	

Tools (pictures not to scale)

1 Marker pen Qty 1 	2 Measure tape Qty 1 	3 Tube stripper Ideal grey 45-162 Qty 1 	4 Tube stripper Ideal blue 45-163 Qty 1 
5 Flat screwdriver Qty 1 	6 Hammer Qty 1 	7 Cable tie gun Qty 1 	8 Scissor Qty 1 
9 Eden tube cutter Qty 1 	10 Ripley 400 fibre tube slitters Qty 1 		

Closure Opening

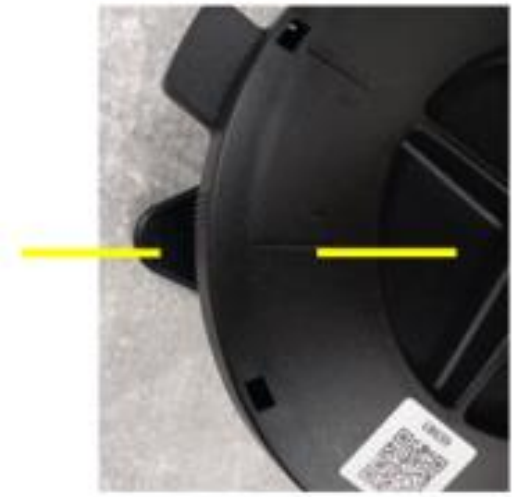
Step 1



- To unlock the closure, twist the cover of the closure anti-clockwise so the unlock line on the cover is aligned with the line and hole on the base.

Closure Opening

Step 2



- The cover should pop open to access the internals of the closure.

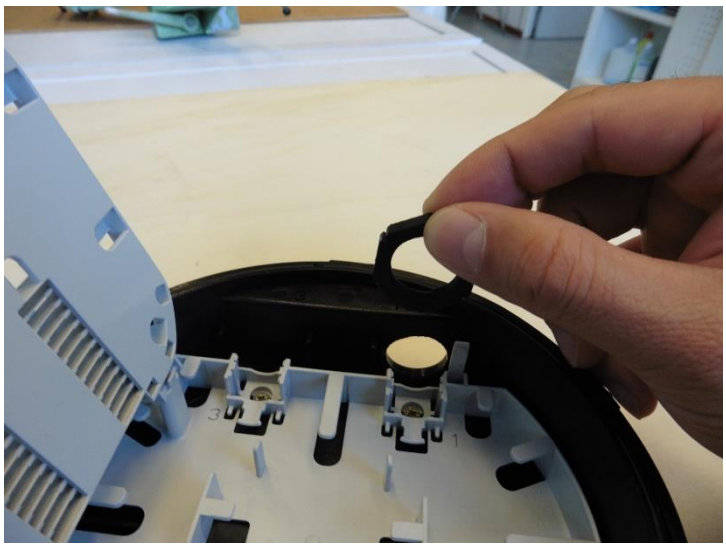
Closure Preparation and Cable Installation

Step 1

- Open the package and check if all components are complete.
- Break the knock-out port according to application.
- Always start from port No. 1.
- Up to Step 30 show the straight connection application (Ports 1 and 2 are used in this case).
- As an example, a direct buried cable with diameter of 5.5 mm and a Pico-Tube cable with diameter of 7 mm are used for port 1 and 2 separately.

Closure Preparation and Cable Installation

Step 2



- Remove the cover and put lock nuts in the cable entry kit into the slots at the inner side of the closure body.

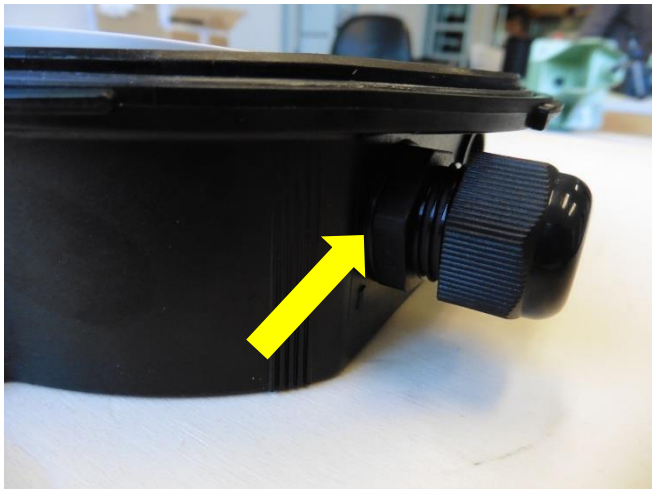
Closure Preparation and Cable Installation

Step 3

- Put O-ring onto the cable gland. Make sure the O-ring sit on top of the bottom surface next to the thread.

Closure Preparation and Cable Installation

Step 4



- Mount the glands through the knock-out ports. Make sure gland surface touch the knock-out port top surface.

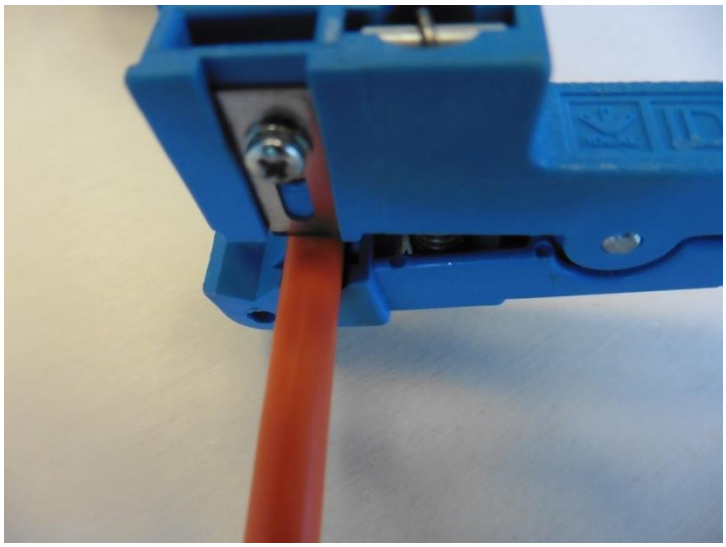
Closure Preparation and Cable Installation

Step 5

- Make a marker where the Closure should be installed. Make sure it is at least 1.2 meter to the end of the cable.

Closure Preparation and Cable Installation

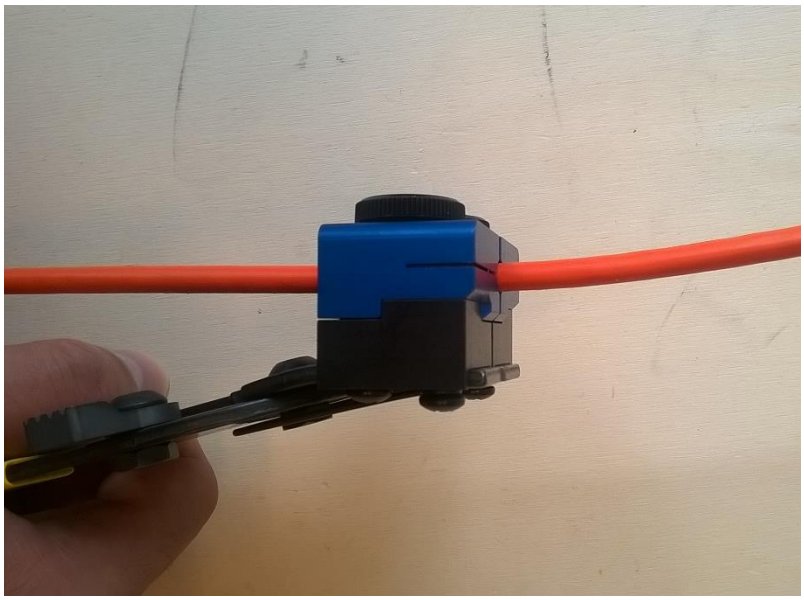
Step 6



- Make a cut around the cable at the marker.

Closure Preparation and Cable Installation

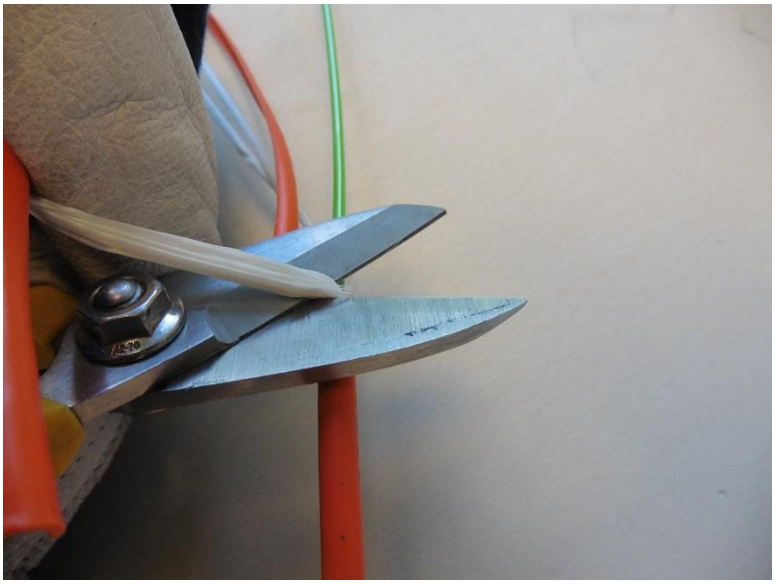
Step 7



- Use Ripley stripping slitter to open the cable out sheath along the length direction, from the marker to the end of the cable.

Closure Preparation and Cable Installation

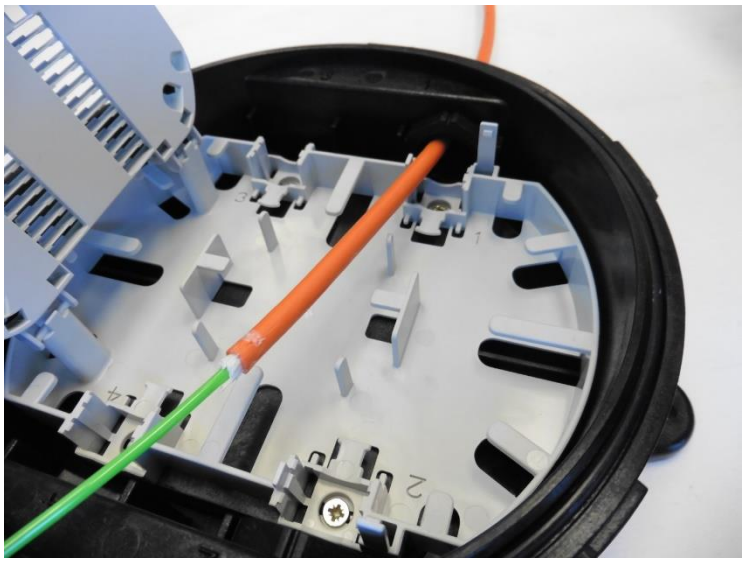
Step 8



- Remove the cable out sheath and cut the strength element with scissor.

Closure Preparation and Cable Installation

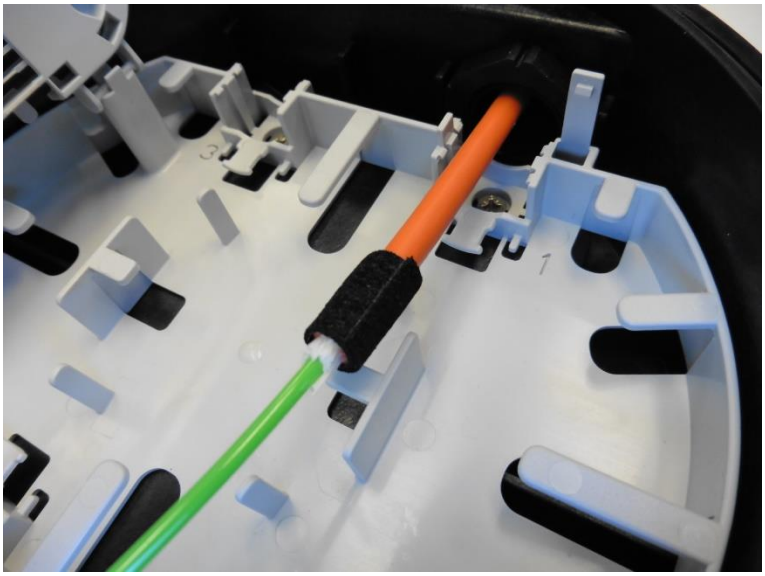
Step 9



- Put the cable into the closure through the gland.

Closure Preparation and Cable Installation

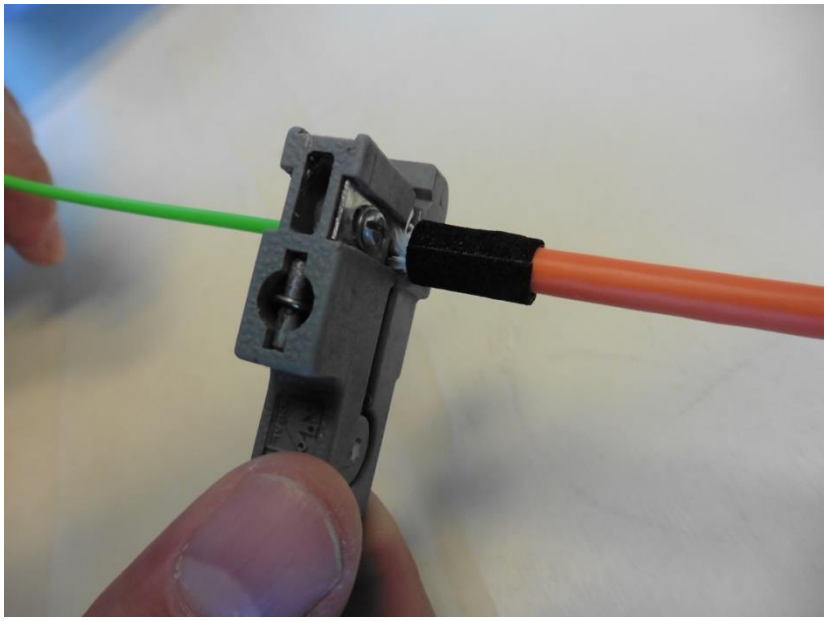
Step 10



- Put about one and half turns of foam tape at the end of the out sheath.

Closure Preparation and Cable Installation

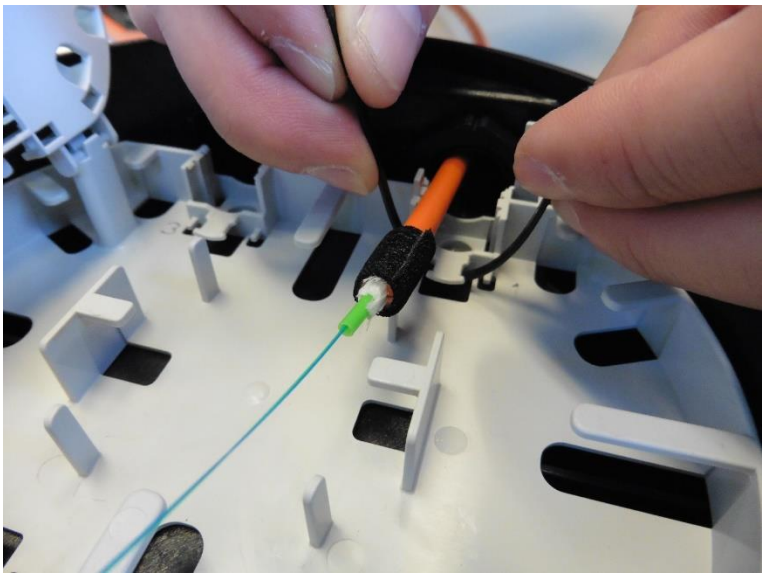
Step 11



- Strip the fibre element sheath and clean the fibres.

Closure Preparation and Cable Installation

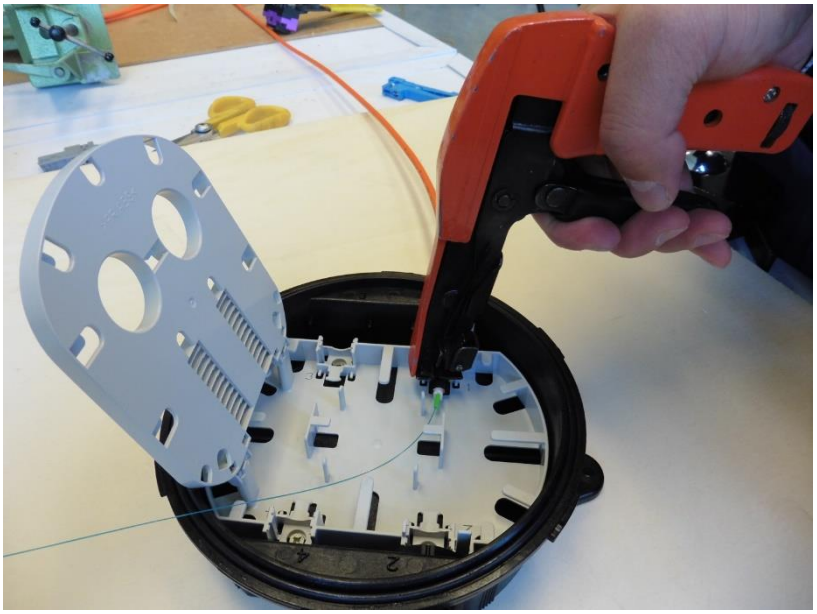
Step 12



- Put a cable tie under the tab in the cable management plate.

Closure Preparation and Cable Installation

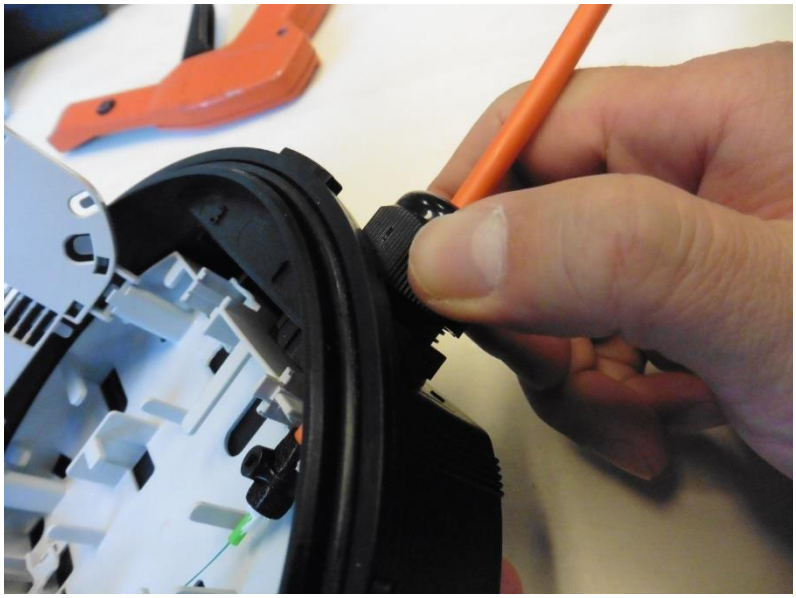
Step 13



- Tighten the cable tie with a cable tie gun.

Closure Preparation and Cable Installation

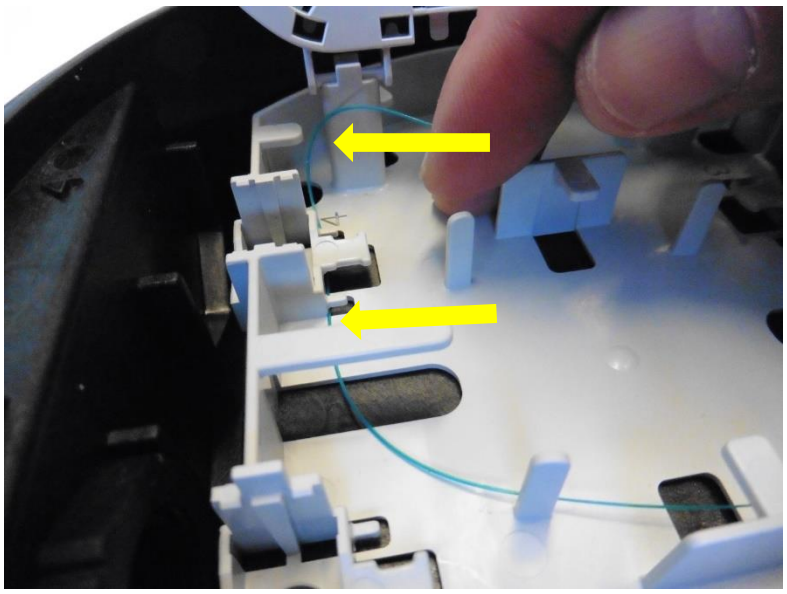
Step 14



- Tighten the sealing nut of the gland.

Closure Preparation and Cable Installation

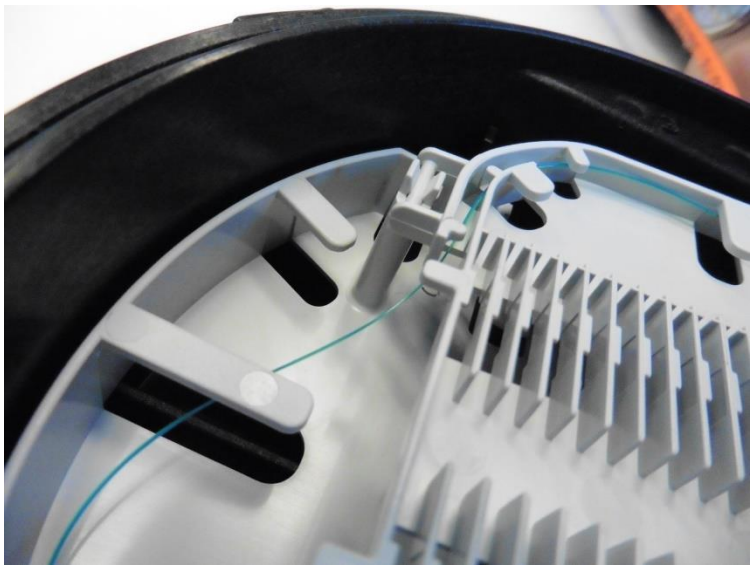
Step 15



- Rout the fibre(s). Make sure they are under two small tabs at Port 4 (lower arrow in the photo) and behind the splice tray mounting support (upper arrow).

Closure Preparation and Cable Installation

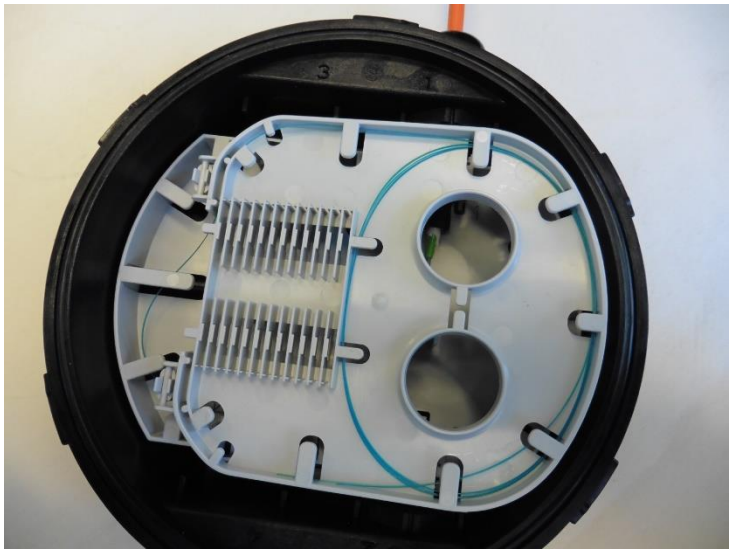
Step 16



- Bring the fibre(s) into the tray.

Closure Preparation and Cable Installation

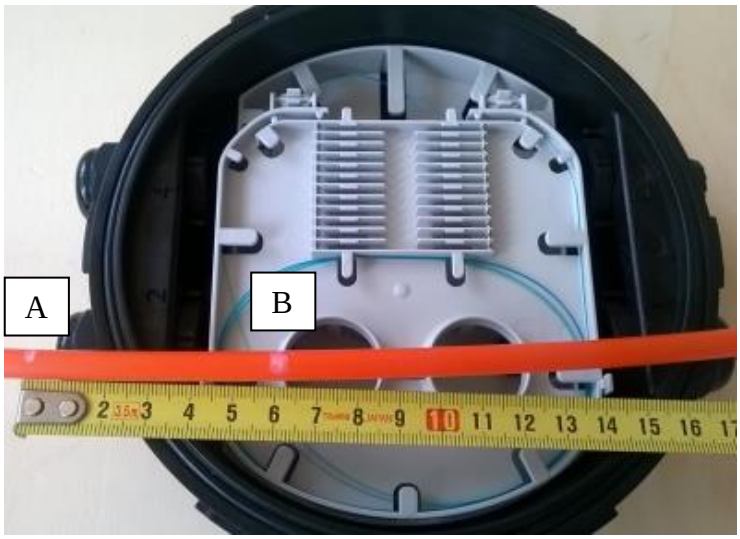
Step 17



- Rout fibre(s) inside the splice tray.
- Cable installation at Port 1 is completed.

Closure Preparation and Cable Installation

Step 18



- For cable at Port 2, determine the position where the duct should be installed. Make a marker at the position in line with the end of the gland (A).
- Make sure the total length from A to the end of the duct is at least 1.2 metres.
- Make a second marker 6 cm away to the direction of then end of the duct (B).
- Leave some slack length outside the closure so that the cable is not stretched.

Closure Preparation and Cable Installation

Step 19

- Remove the mini duct with an Eden tube cutter from the second marker.

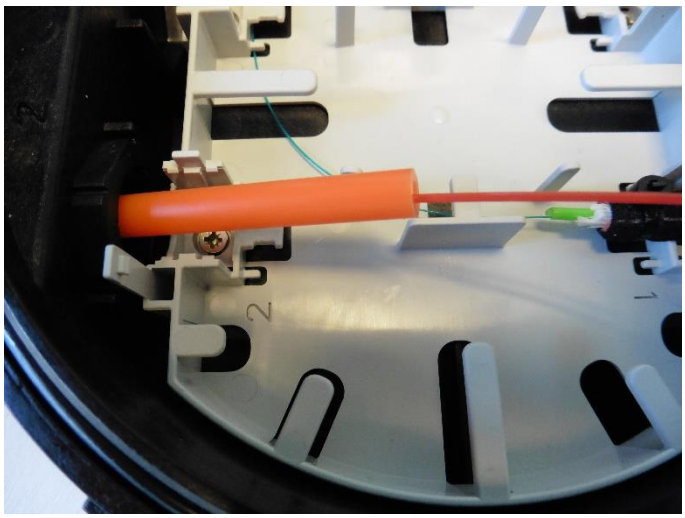
Closure Preparation and Cable Installation

Step 20

- Make sure the end surface of micro duct is flat.

Closure Preparation and Cable Installation

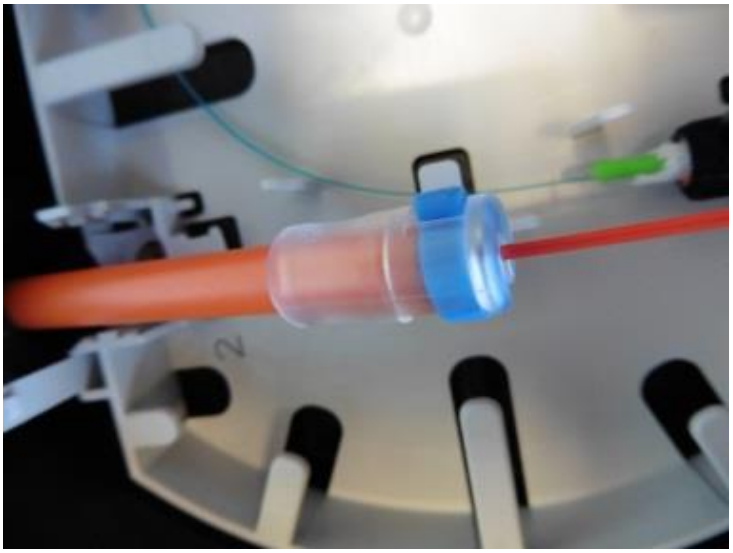
Step 21



- Carefully put the fibre element and mini duct into the closure through the gland.

Closure Preparation and Cable Installation

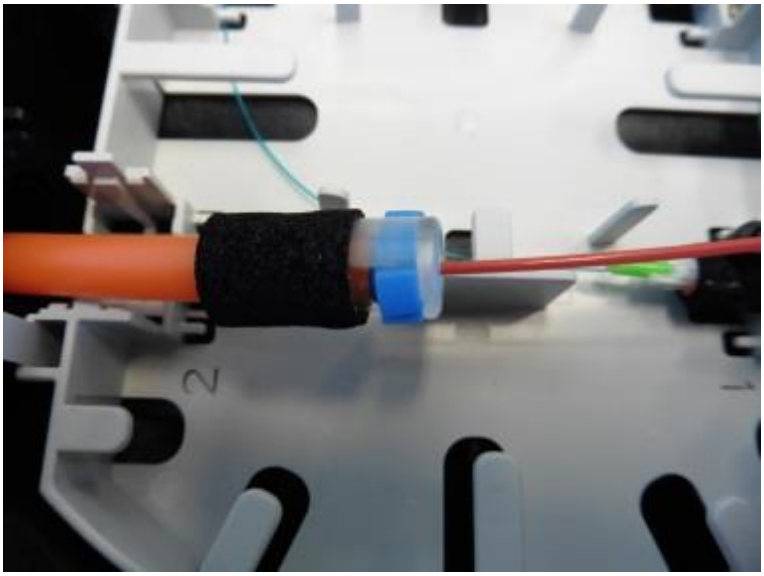
Step 22



- Mount the Miniduct Seal onto the mini duct following the installation instruction.

Closure Preparation and Cable Installation

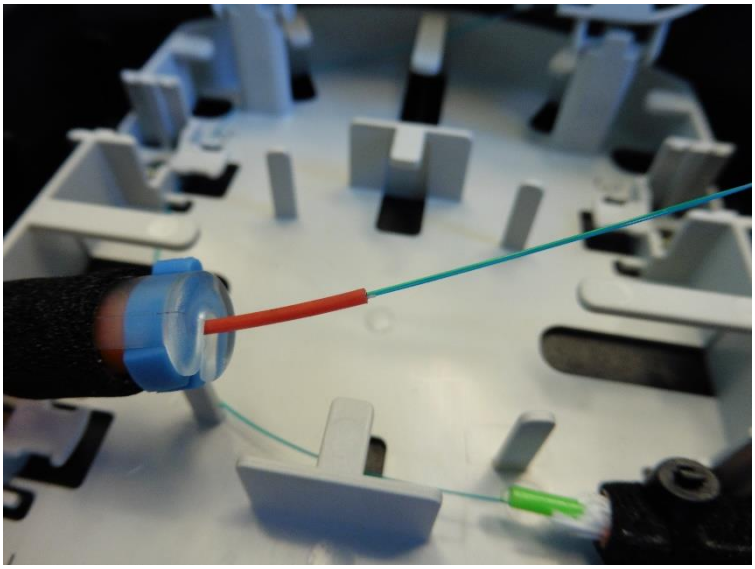
Step 23



- Wrap about one and half turns of foam tape around the Miniduct Seal.

Closure Preparation and Cable Installation

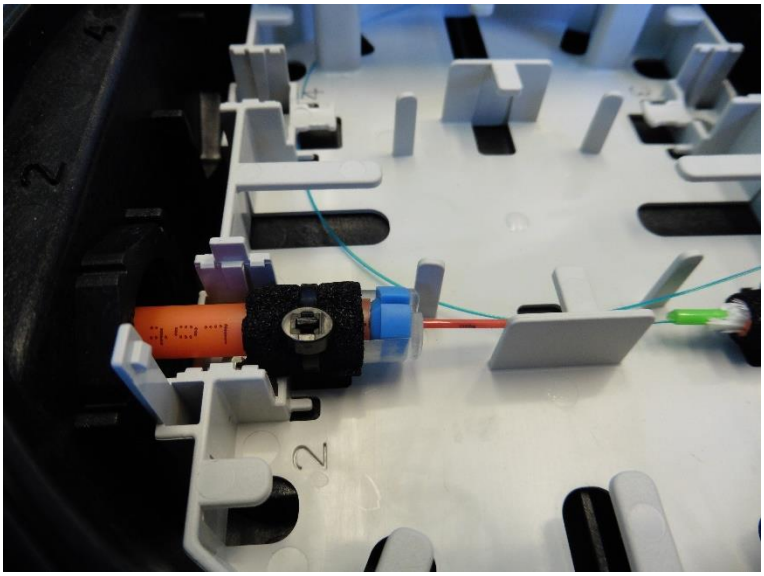
Step 24



- Strip the out sheath of the fibre element and clean the fibre(s).

Closure Preparation and Cable Installation

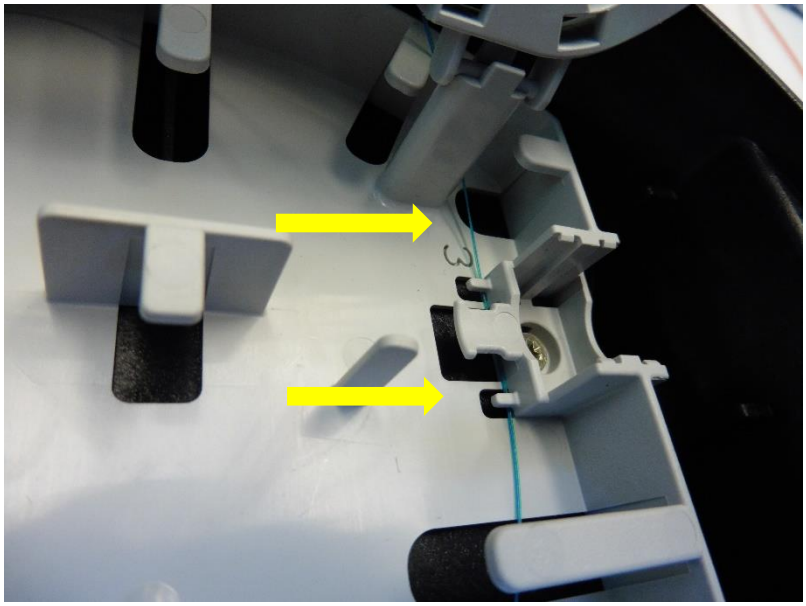
Step 25



- Fix the mini duct with a cable tie and secure with cable tie gun.
- Tighten the sealing nut of the gland.

Closure Preparation and Cable Installation

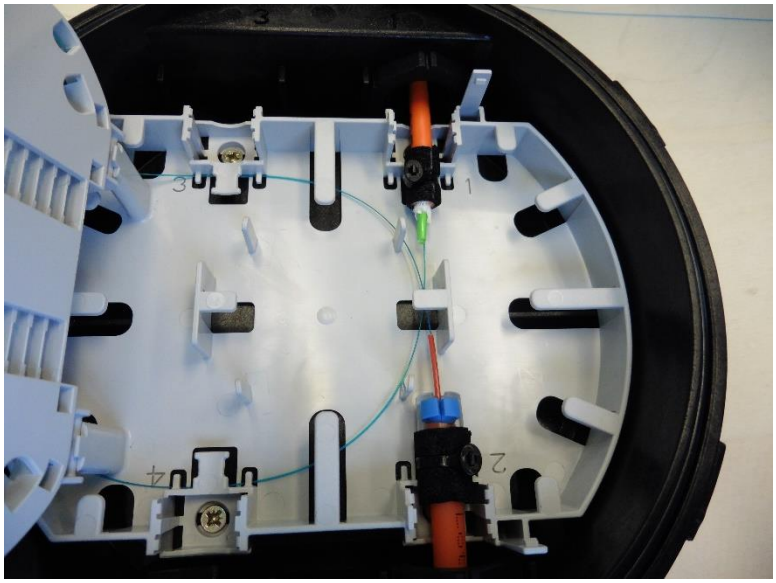
Step 26



- Rout the fibre(s) under the tabs at port 3(lower arrow) and behind the splice tray mounting support (upper arrow).

Closure Preparation and Cable Installation

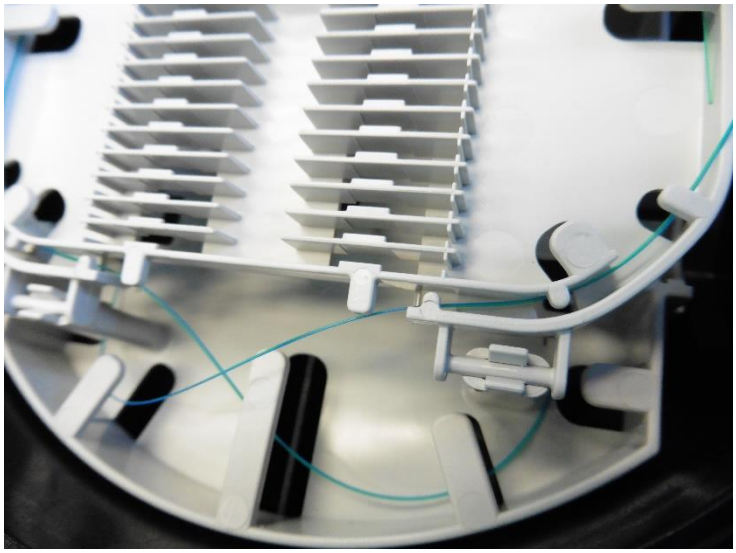
Step 27



- Make sure fibres are routed inside the management plate as shown in the photo.

Closure Preparation and Cable Installation

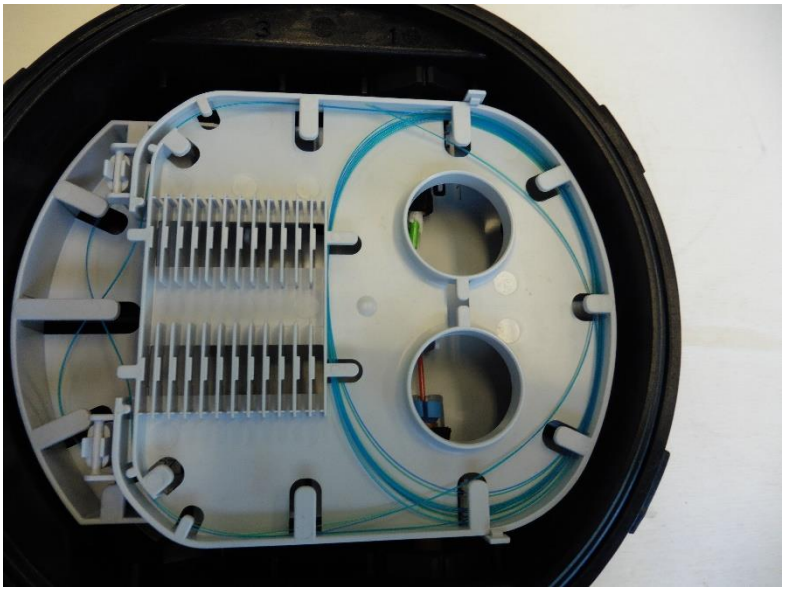
Step 28



- Bring fibre(s) into the tray.

Closure Preparation and Cable Installation

Step 29



- Rout fibre(s) inside the splice tray.
- Now it is ready for splicing or it can be left as it is for future splicing.

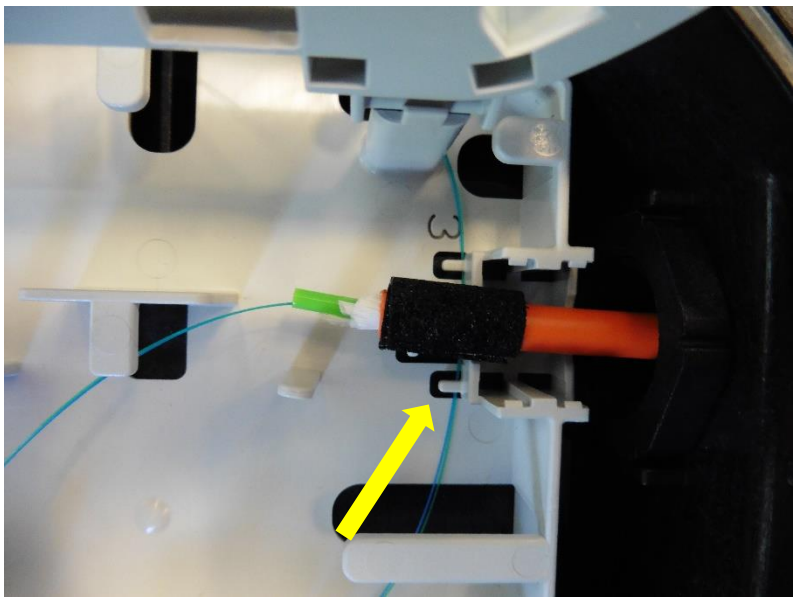
Closure Preparation and Cable Installation

Step 30

- To lock the closure, line up the line on the base with the unlock line on the cover.
- Push and twist the cover into position until the lock line on the cover is lined up with the line on the base.
- Check the cover is secured in position.
- The closure is now closured and sealed.

Routing of Fibres from Other Ports

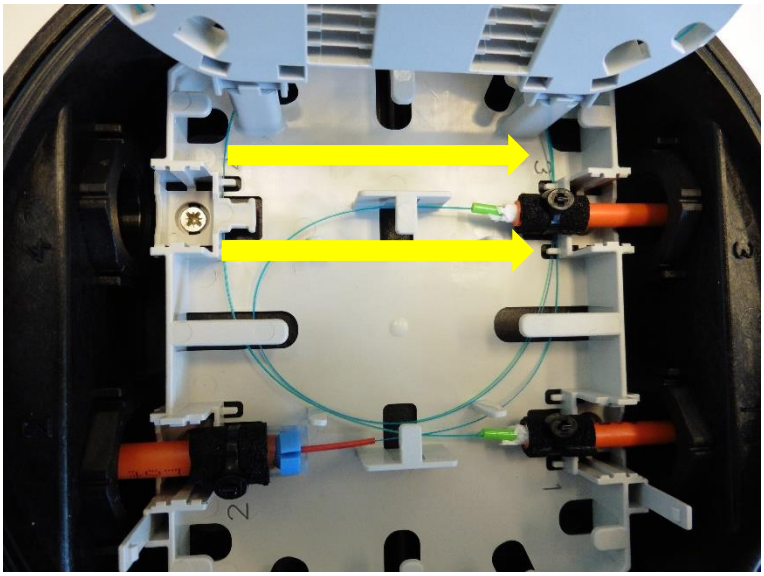
Step 31



- Following step 5 to step 14 to install cable at port 3.
- When route fibres inside the management plate, twist the fibres so that they can go under the cable and the tabs.

Routing of Fibres from Other Ports

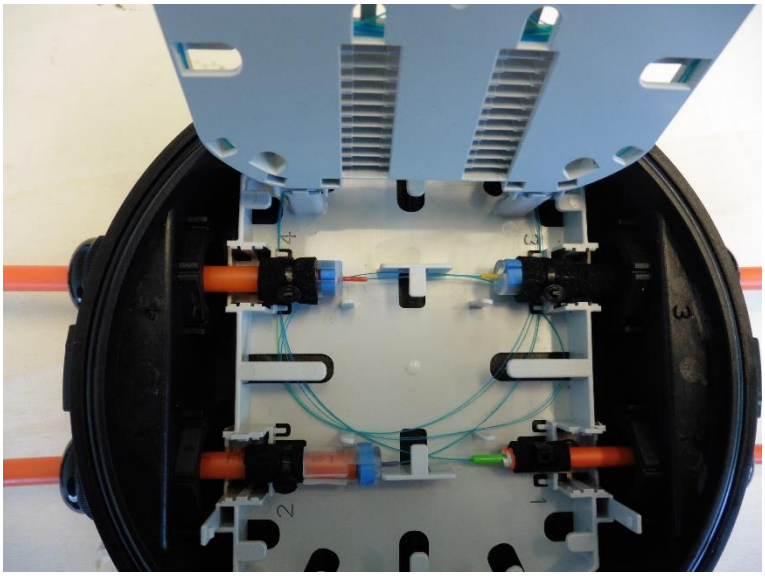
Step 32



- Rout fibres from port 3 inside the management plate as shown in the above photo.
- Make sure fibres are under the tabs (lower arrow) and behind the splice tray mounting support (upper arrow).

Routing of Fibres from Other Ports

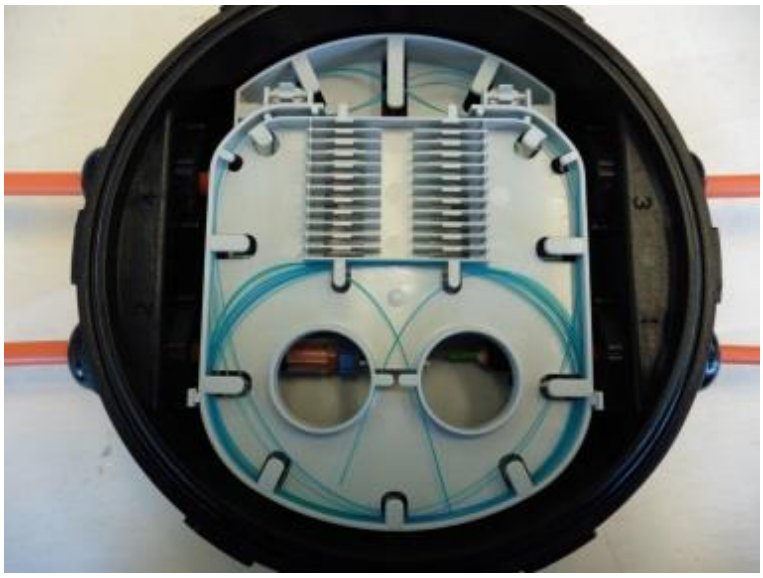
Step 33



- If cable is installed at port, follow the same way for port 4.

Routing of Fibres from Other Ports

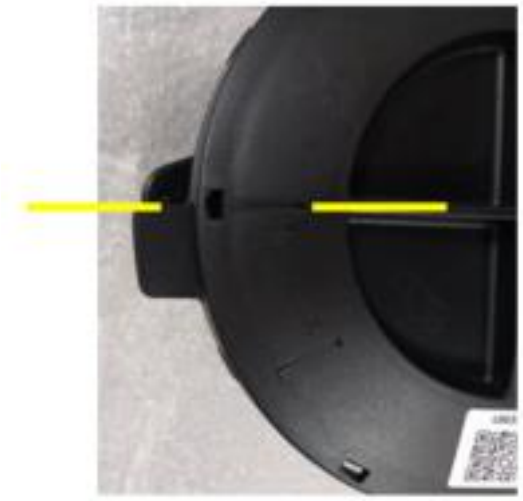
Step 34



- Route fibres inside the tray. Ready for splices.

Closure Closing

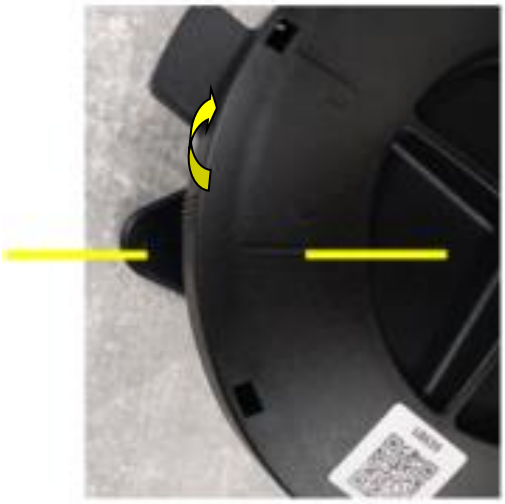
Step 1



- To lock the closure, line up the line on the base with the unlock line on the cover.

Closure Closing

Step 2



- Push and twist the cover clockwise into position until the lock line on the cover is lined up with the line on the base.

Closure Closing

Step 3

- Check the cover is secured in position by lifting the cover from the base. If the cover does not lift, the closure is secured.

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