

Outdoor fiber distribution closure

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1 Introduction

The OFDC is the environmentally sealed enclosure for fiber management system that provides the functions of splicing and passive component integration in the external network.

Sealed with gel for longitudinal seal and wrap around gel block for cable sealing.

Integrated strain relief on drop (ISROD) cable fixation for drop cables, easy installation jacket and aramid strength member fixation.

Organizer is fully removable from the closure body and customer adding is transient free.

Cable diameters for main cable 8-18 mm

Cable diameters for extra drop cable 5-8 mm

Cable diameters for 8 drop cables 2,5-6 mm

2 Closure preparation



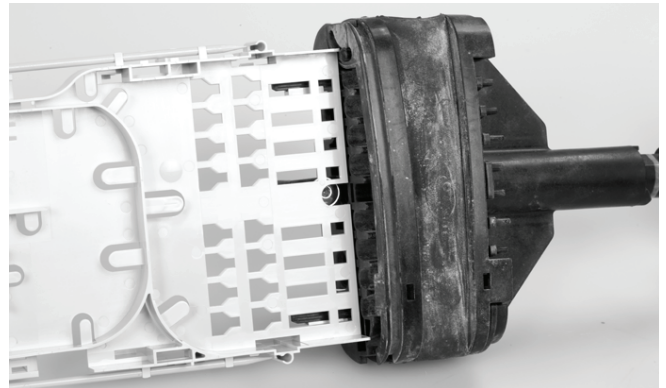
2.1 Open the closure by lifting the 2 latches. Take out the organizer.



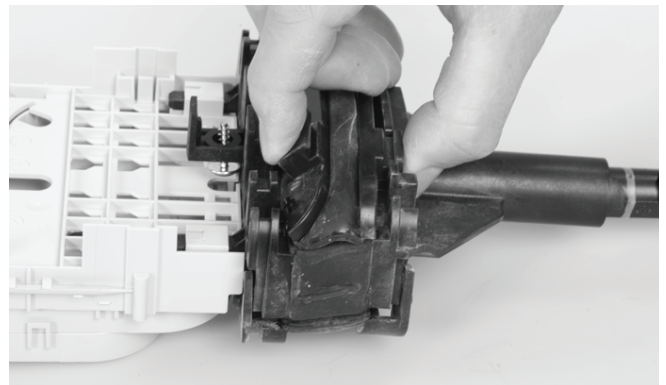
2.2 Put the 2 small screws in stand by (only 1-2 turns).



2.3 Insert (push) the screw in the gel-block (cross) as shown.



2.4 Connect the gel-block with the organizer (2 black ribs). Make sure the screw is underneath the organizer!



2.5 For main (loop) cables turn backwards. Open the gel-block by taking out the gel part.

3. Cable preparation

3.1 Main cable 8-18 mm Micro sheet

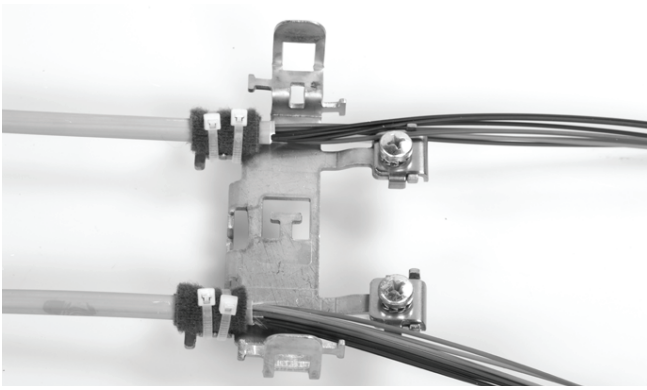


3.1.1 Make a window cut.

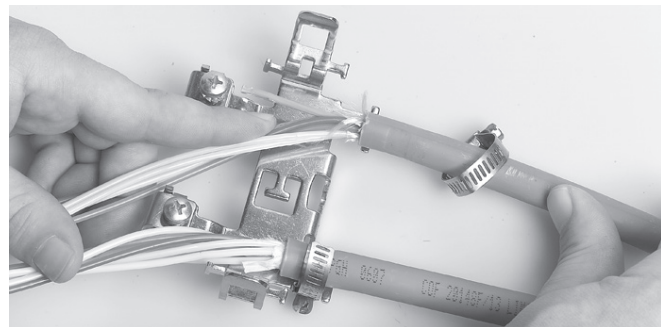
Depending on cable type:

144 Fi:	3 m
288 Fi:	2 m
432 Fi:	1.75 m

Cut strength member at 40-45 mm. Add some foam (1-2 wraps).

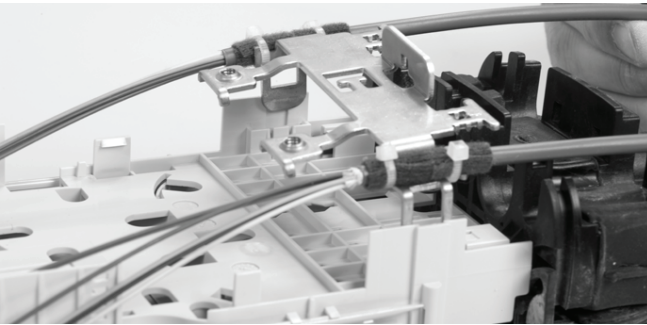


3.1.2 Fix the cables to the metal bracket with tie-wraps and secure the strength members between the two metal plates.

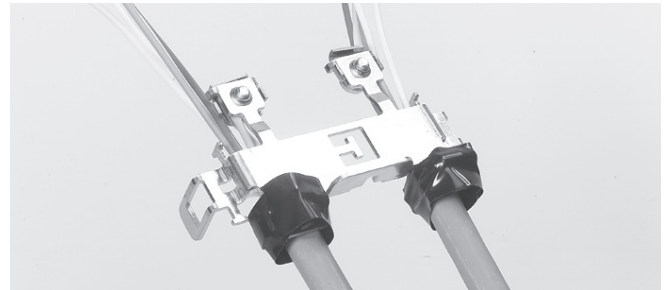


3.2.2 Fix the cables to the metal with the hose clamps and secure the strength members between the two metal plates.

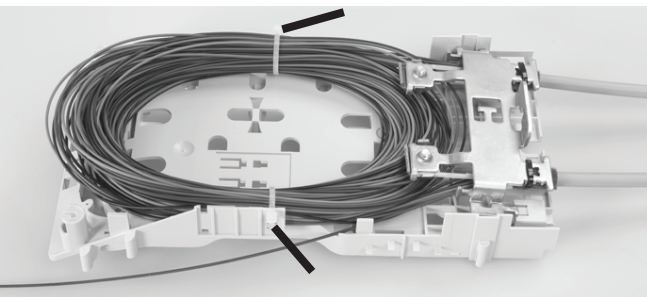
Note: bolts of hose clamp on bottom side.



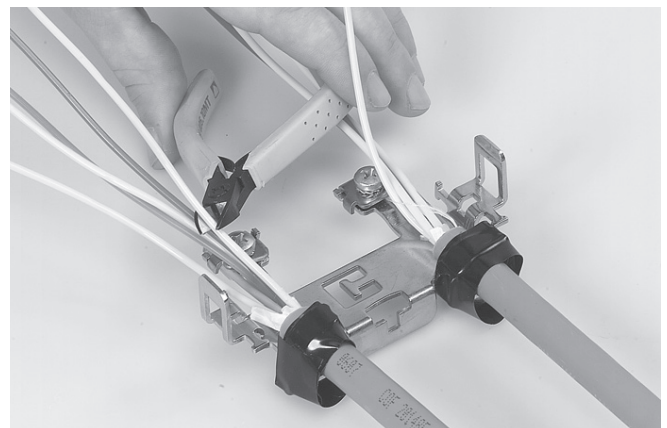
3.1.3 Insert the metal bracket with cables into the organizer (snap fit).



3.2.3 Tape the hose clamps.



3.1.4 Take out the bundle to be terminated and store the loops. Fix the loops with tie-wraps at the sides (do not tighten complete!).

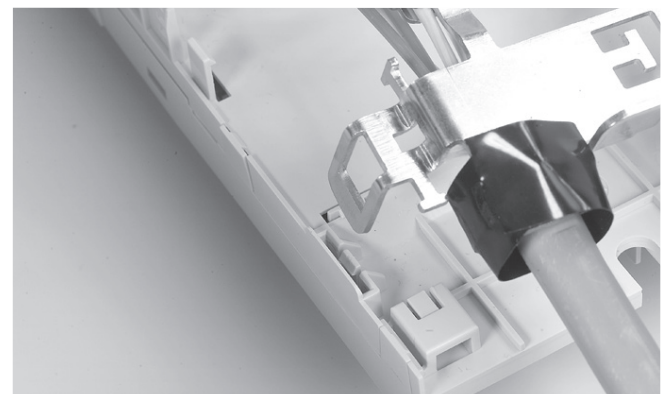


3.2.4 Cut the loose tube needed to be spliced to drop or customer cable at one side of the main cable.

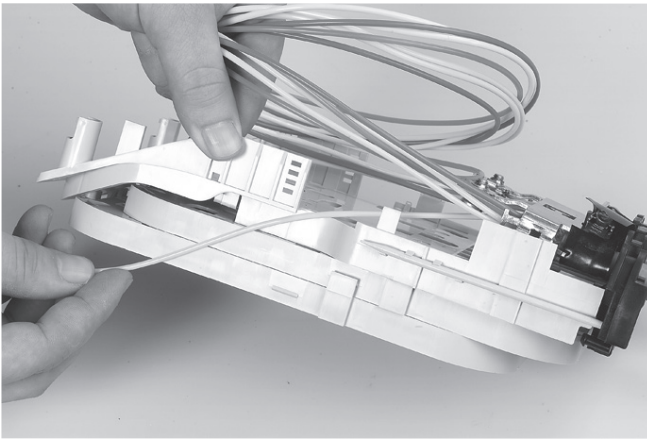
3.2 Main cable 8-18 mm loose tube



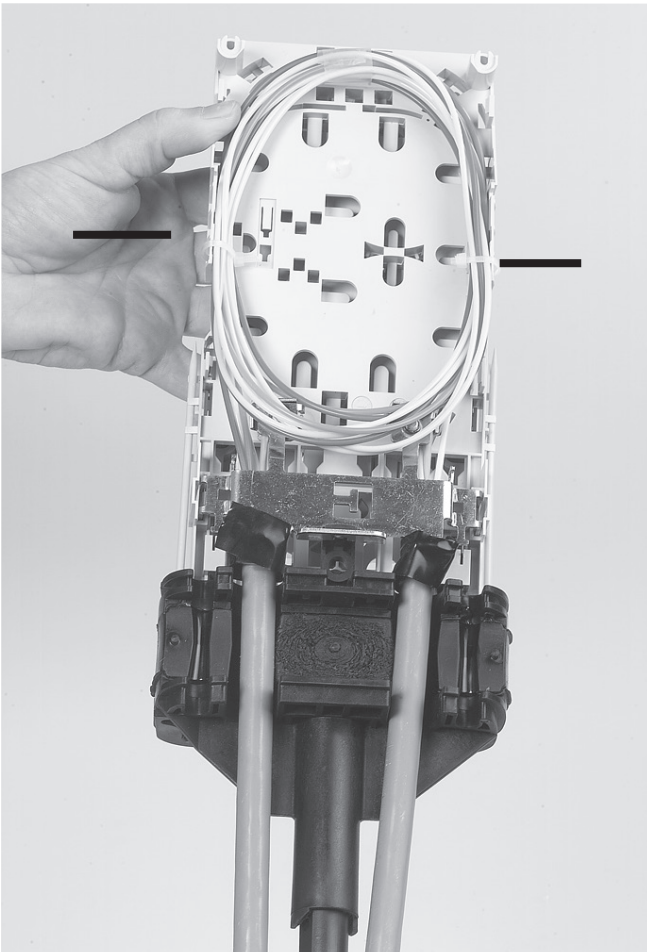
3.2.1 Make a window cut of 1.3 m, turning point in the middle. Cut the strength member at 40-45 mm from the outer jacket.



3.2.5 Insert the metal bracket with cables into the organizer (snap fit).

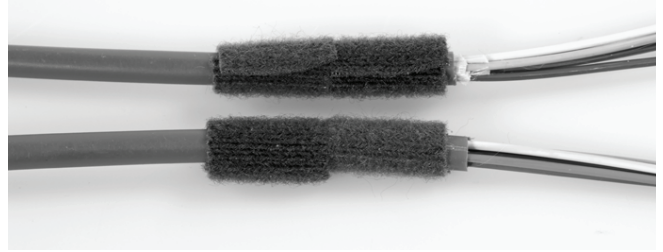


3.2.6 Take out the bundle to be terminated.

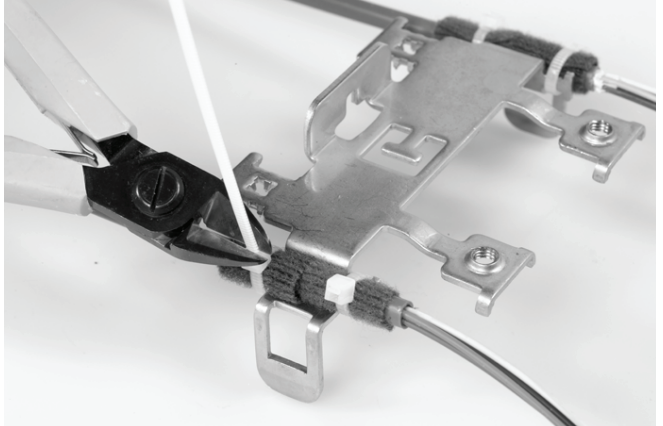


3.2.7 Make some loops with the uncut loose tubes, store them in the dedicated area, securing positions ensured with tie wraps. Do not tighten completely.

3.3 Drop cable 5-8 mm



3.3.1 Remove outer jacket for 1.5 m. Add 2 foam strips next to each other (1-2 wraps).

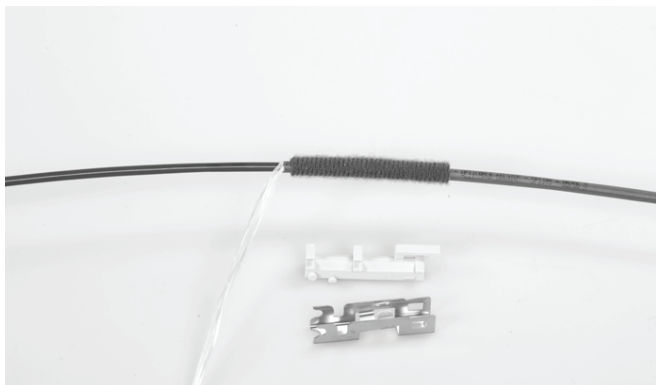


3.3.2 Fix the cables to the outer bracket legs with tie-wraps.

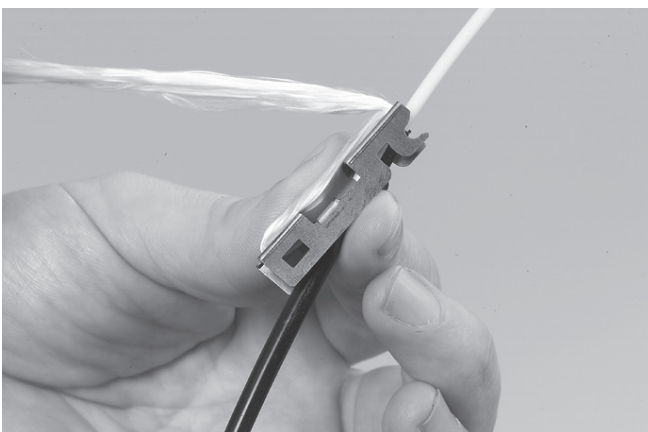
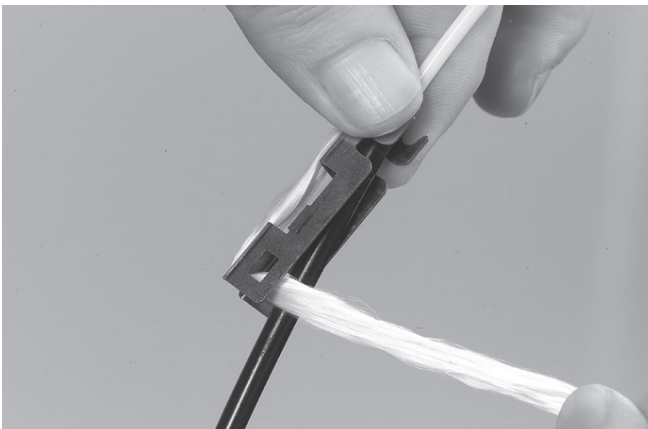
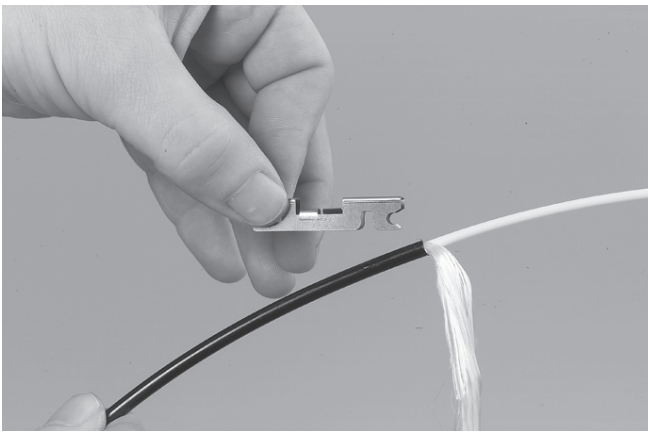
3.4 Drop cable 2,5-6 mm mm



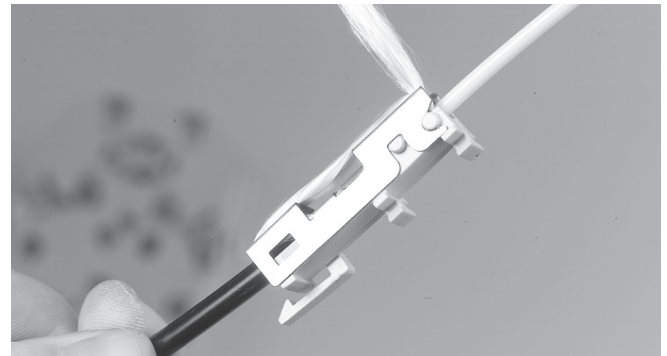
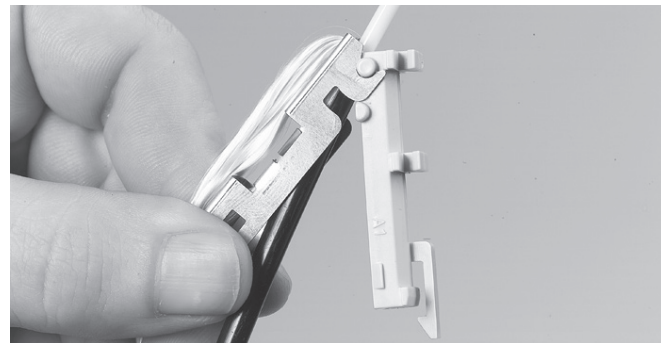
3.4.1 Remove outer jacket for 1.5 m leaving 25 cm of aramid strength member.



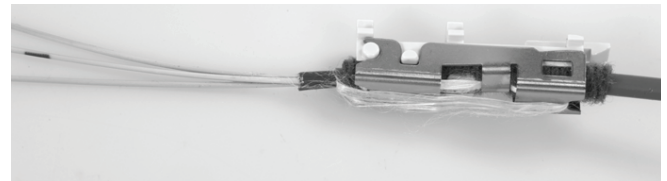
3.4.2 For cables ≤ 4 mm and no or little aramid strength member add 1 layer of foam in longitudinal direction.



3.4.3 ISROD installation: Put the metal part on top of the cable end, route the aramid strength member over the metal part and make 1 complete turn.



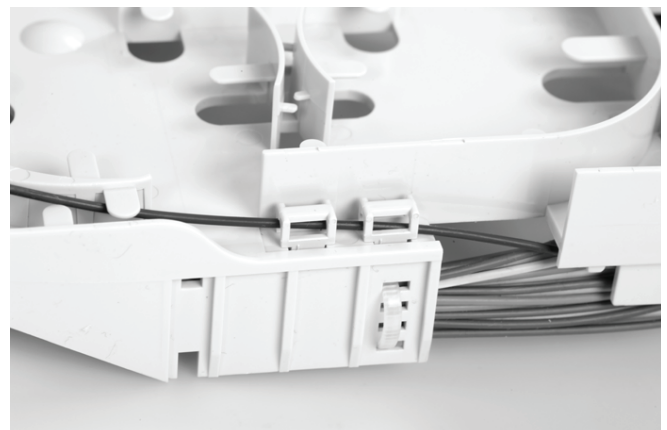
3.4.4 Put the plastic part in the hinge of the metal part and close while holding the aramid strength member under tension (a pair of pliers can be used if needed). Cut the remaining aramid strength member.



3.4.5 Strip the tube at 10 mm from jacket end.

4 Fiber routing

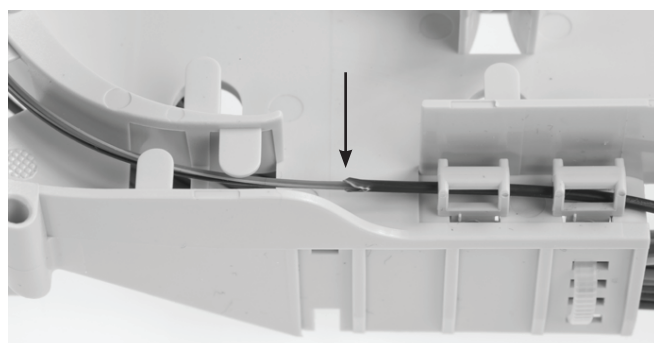
4.1 Main cable/ uncut fibers micro sheet



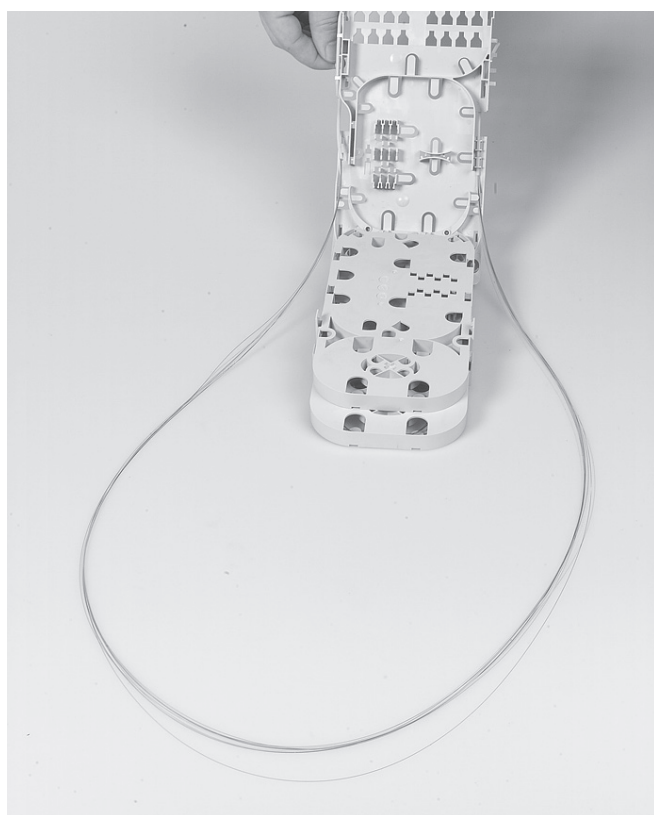
4.1.1 Route the bundle to the splice area and fix with the 2 plastic snap parts.



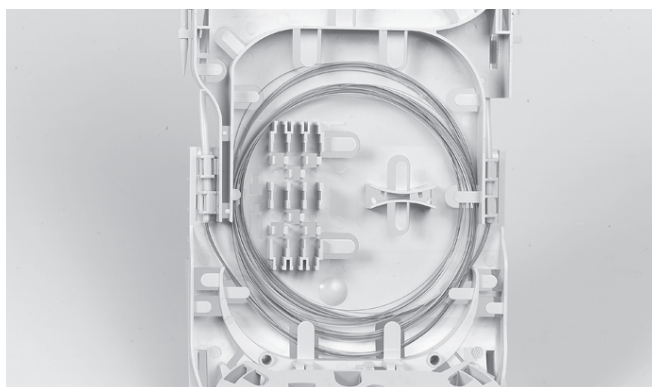
4.1.2 The snap parts can contain more than 1 bundle if needed and can also be staggered.



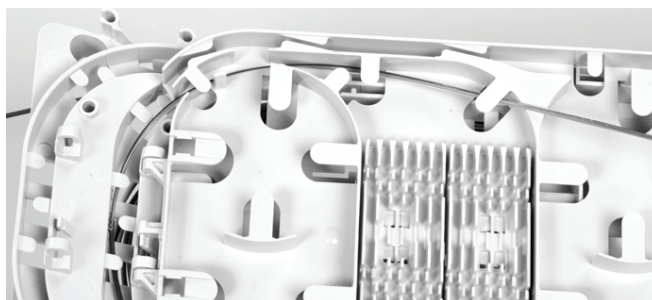
4.1.3 When all fibers will be used cut bundle in the middle. Remove the jacket till 1cm next to the snap fit.



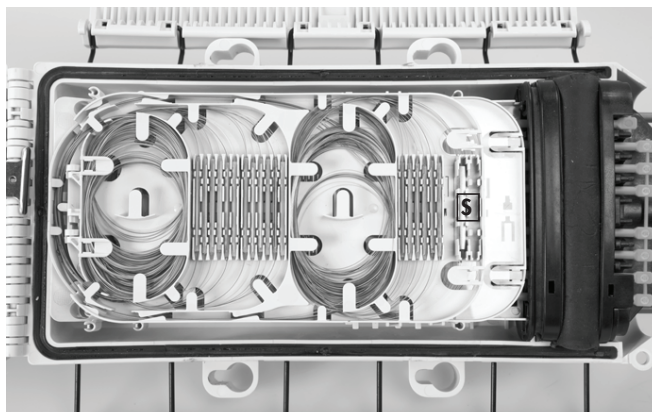
4.1.4 For uncut (shaved) fibers remove jacket accordingly.



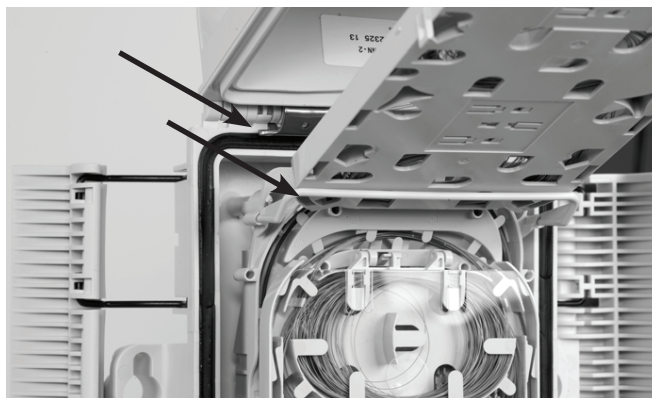
4.1.5 Store the uncut fibers in the storage area.



4.1.6 Route the fibers to be spliced trough the correct groove, depending the tray/splicing area.

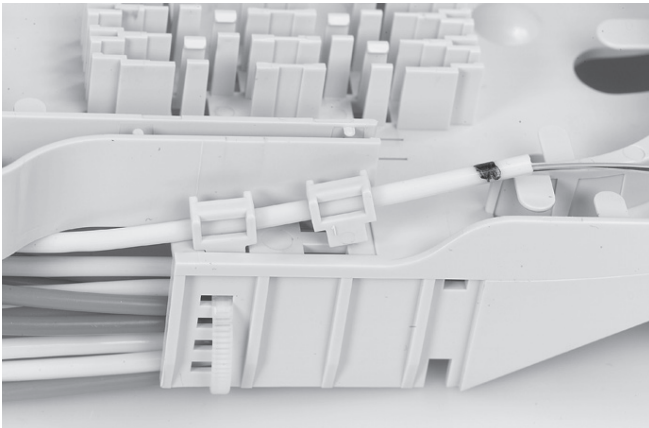
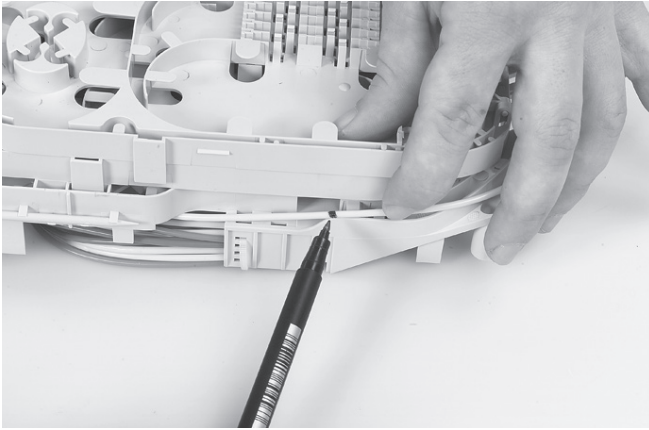


4.1.7 Store over length in the correct zone. Splitters can be stored at the bottom of the tray (S).



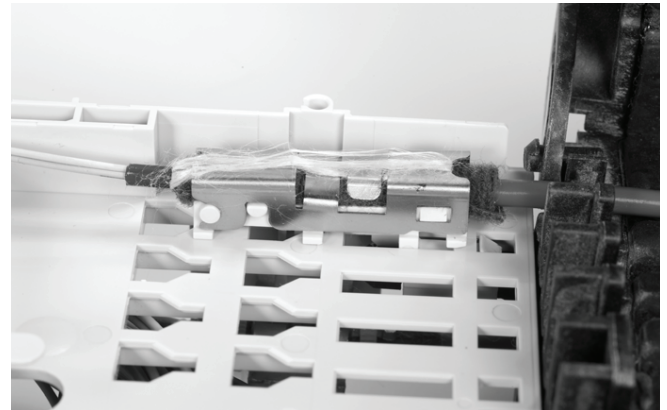
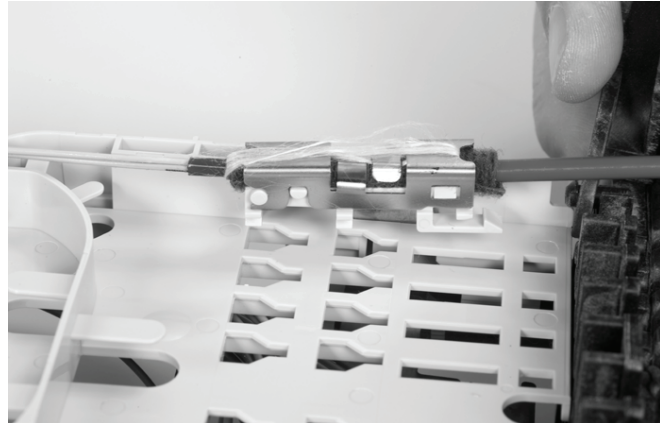
4.1.8 When installation is performed in a vertical position: For lifting the splice tray use plastic wedge. For lifting the cover use metal wedge.

4.2 Main cable cut fibers loose tube

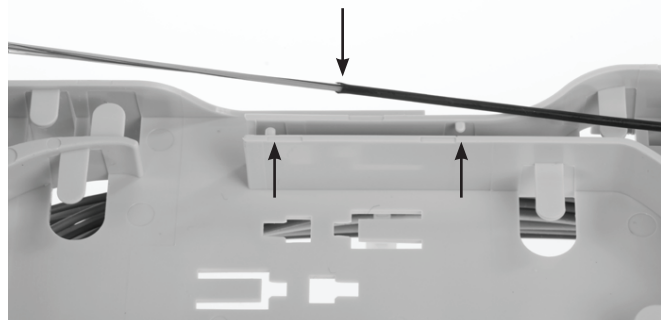


4.2.1 Route the loose tube to the splice area. Strip the loose tube 10 mm after the last snap fit. Fix the loose tube with the two snap fits (can be staggered). Route the fibers accordingly to micro sheet cable.

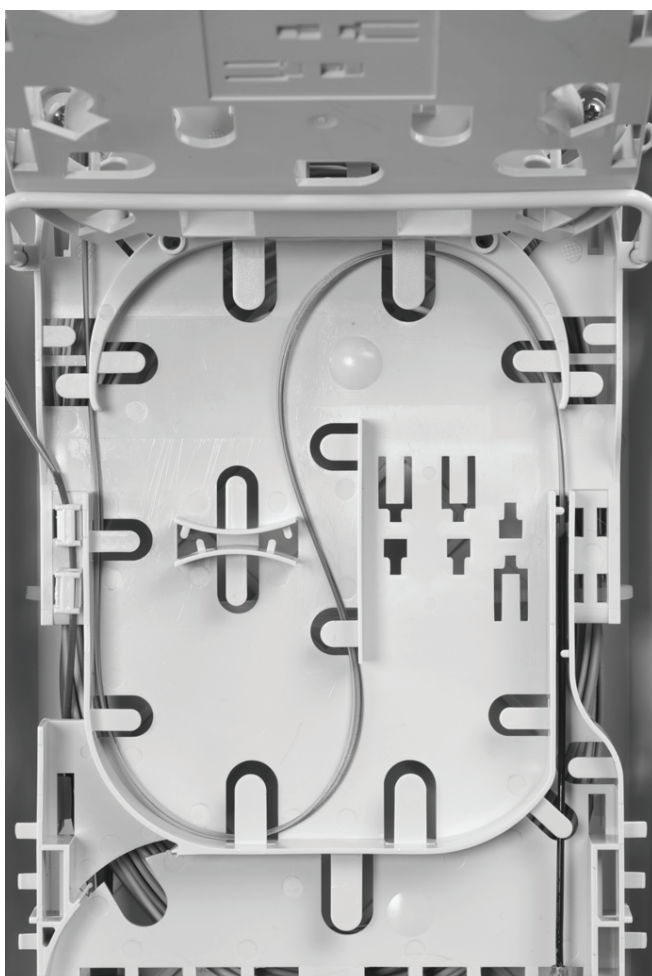
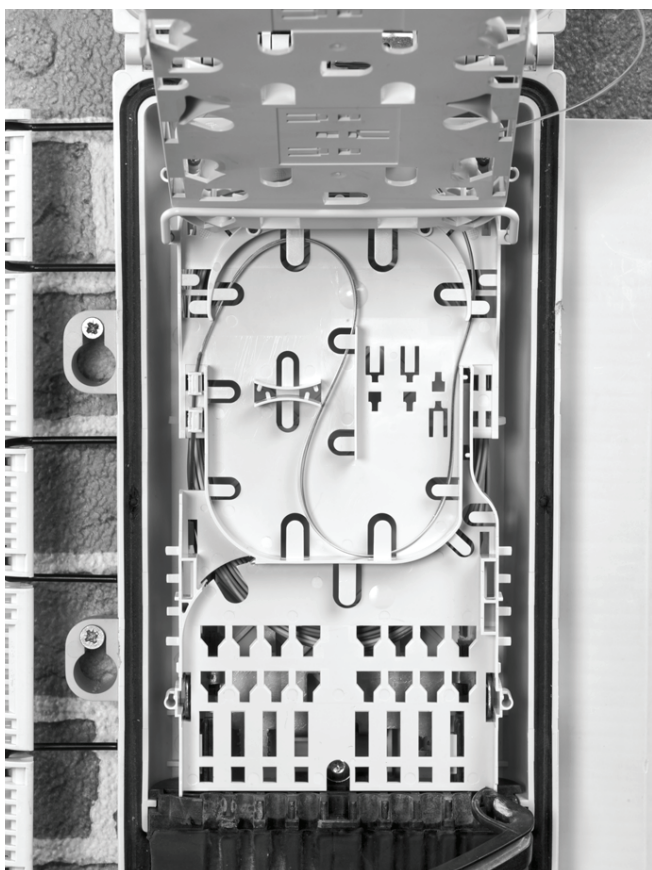
4.3 Drop cable



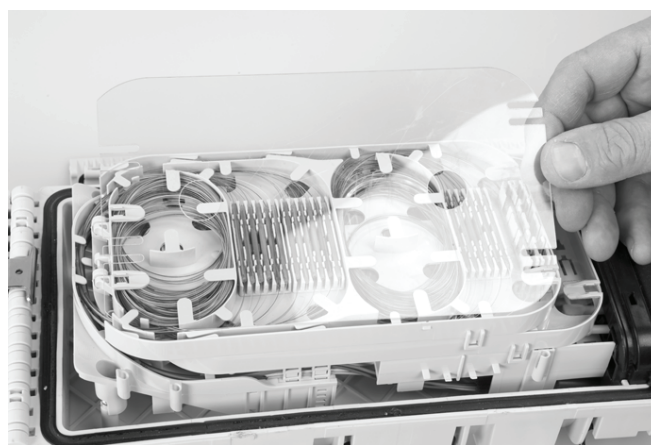
4.3.1 Install the drop cable with ISROD onto the organizer. Make sure the hook is locked!



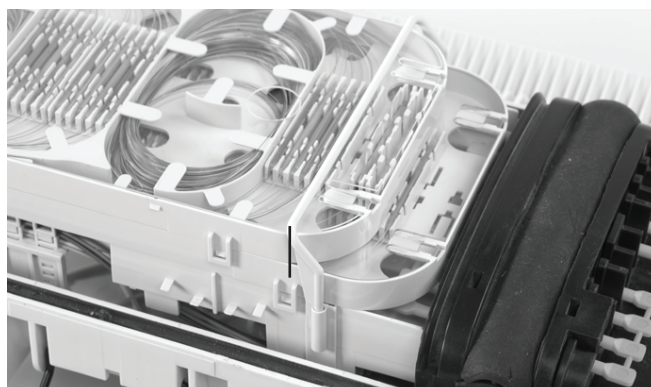
4.3.2 Remove the jacket in the zone between the 2 little lips and route the fibers in the groove to the correct tray/splicing area.



4.3.4 Fiber organization when switching sides.

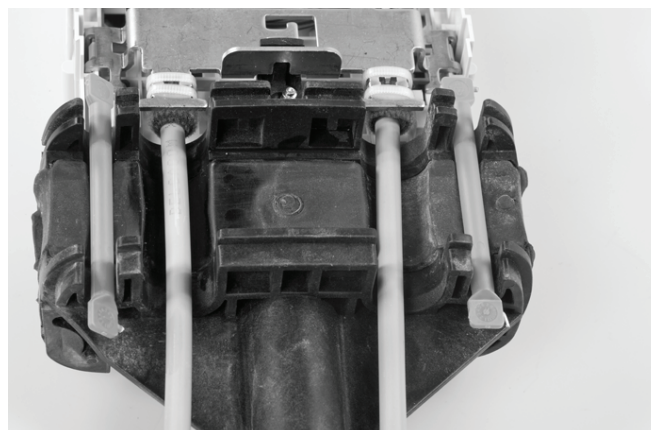


4.3.5 Install cover (remove protective foil).

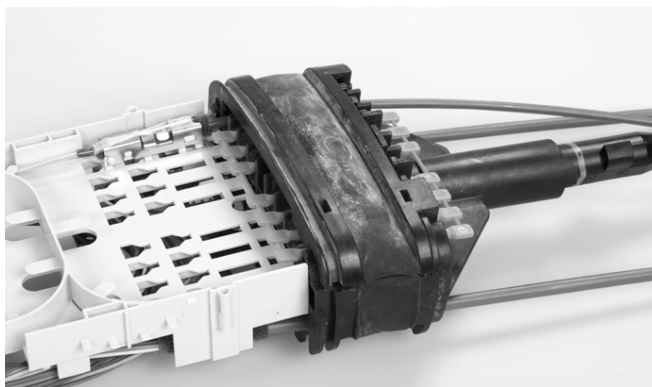


4.3.6 Install plastic wedge.

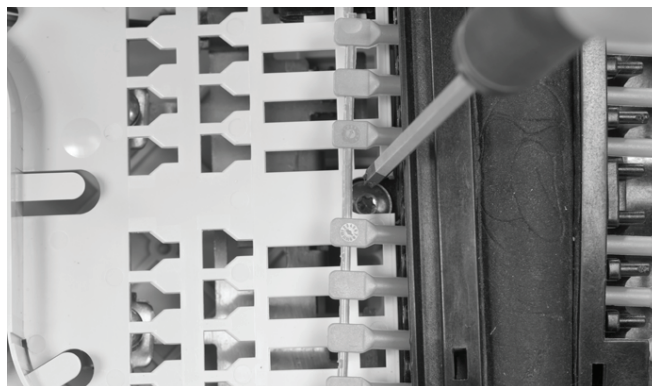
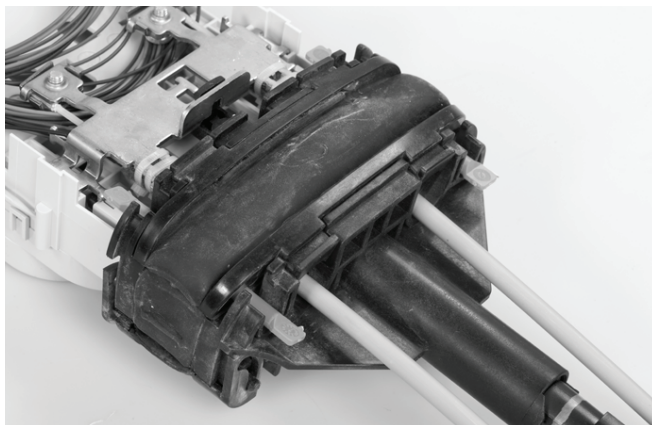
5 Closing



5.1 Install dummy rods in unused ports.



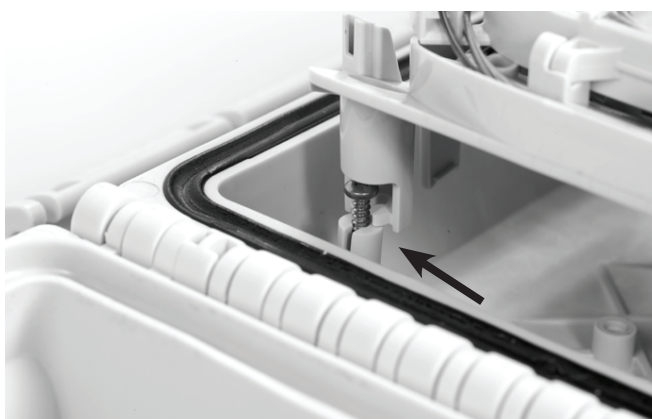
5.2 Close the gel block.



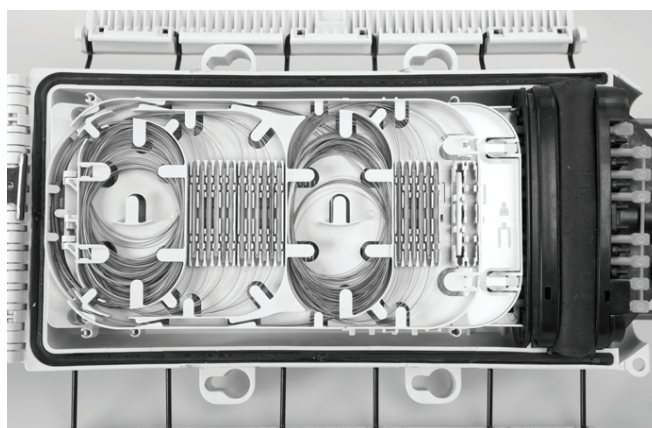
5.5 Secure the screw at the bottom part as well.



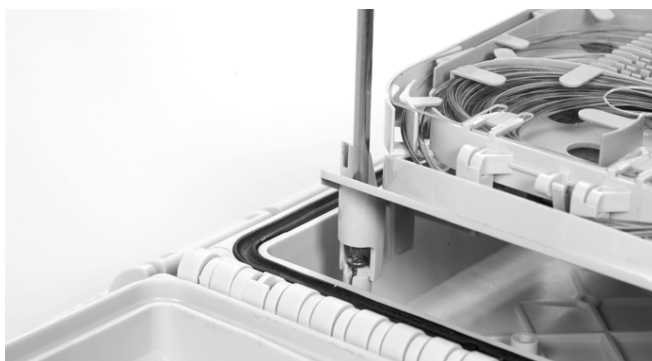
5.6 Metal wedge can be stored in the lid.



5.3 Slide organizer with top part gently in to the holder with screw.



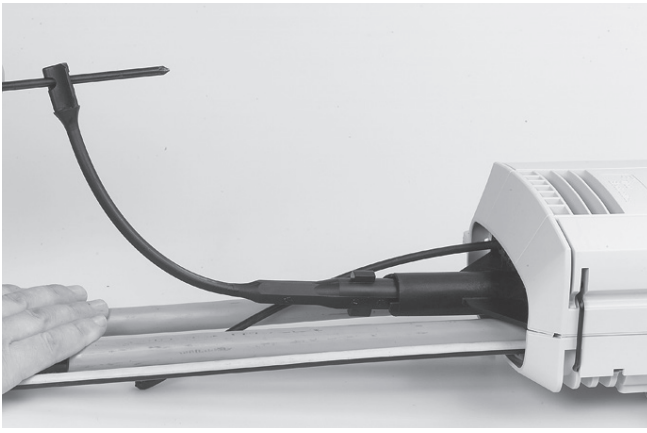
5.7 Before closing, make sure the gel sealing area is clean.



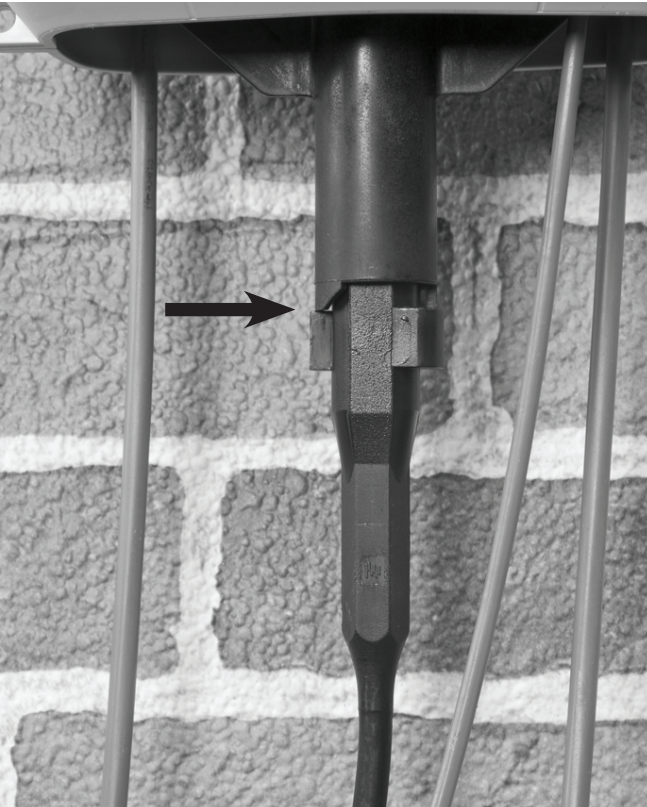
5.4 Secure the screws.



5.8 Close the latches.

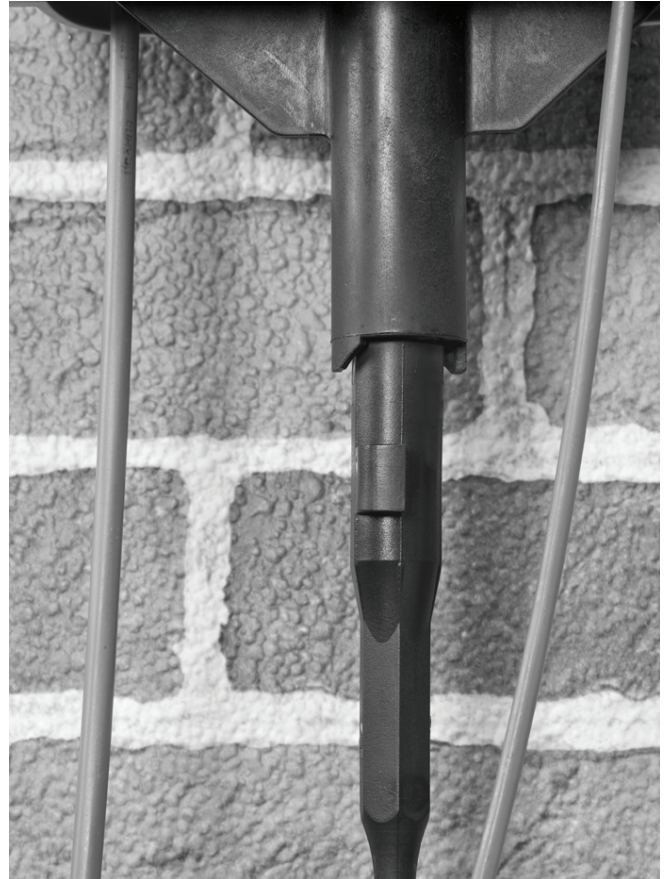


5.9 Tighten the trigger.

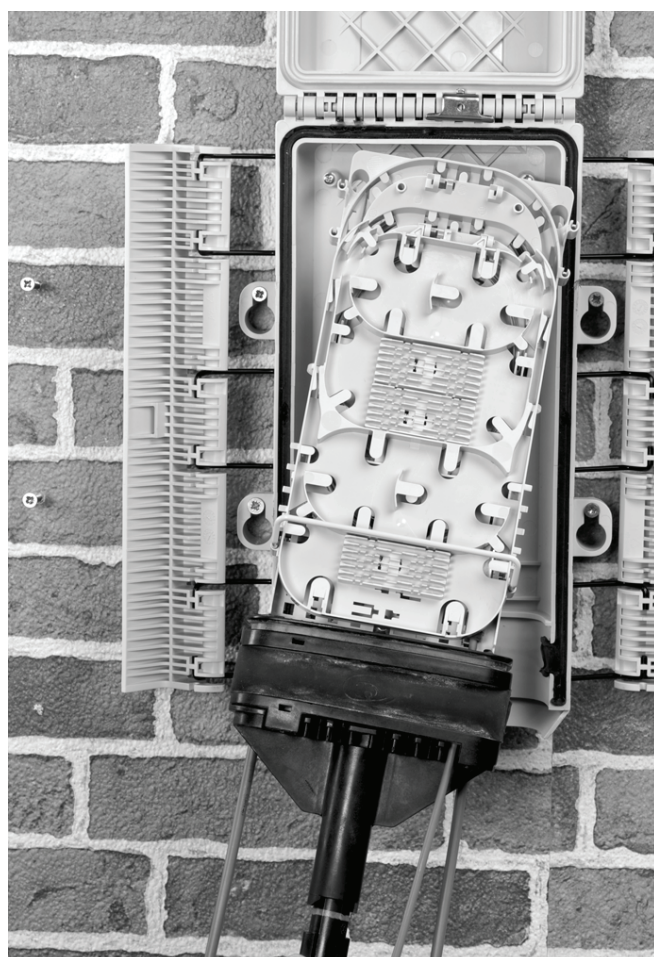
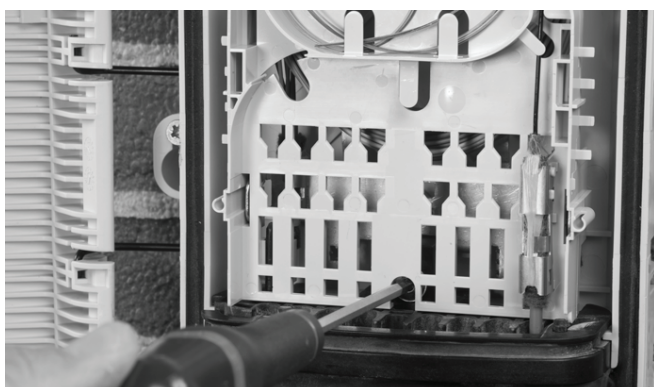
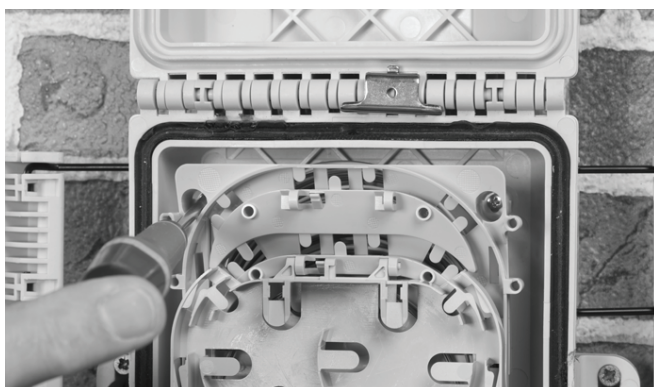


5.10 Tighten till the wings are touching the plastic tube.

6 Re-entry



6.1 Before opening the closure, release the trigger till the marking line is visible. Open the latches.



6,2 The organizer can be taken out by releasing the two top screws (1-2 turns) and the bottom screw completely.
For reclosing proceed starting again from paragraph 5.

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