

OFDC-A4 SPLICE/PATCH

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1 General product information

The OFDC-A4 Splice/Patch is an Outdoor Fiber Distribution Closure for micro sheath cable constructions. Also suitable for loose tube cable, providing all tubes are shaved and removed for storage.

Fiber types: All ITU-T G657.

- IP68, 2m Water head sealing level.
- Micro sheath loop storage up to 13 m/511 inches. (0.9-1 mm tubes)
- Splice capacity: 24/48
- Patch capacity: 4 SC/8LC
- Cable range:
 - 2 feeders: 4.5-12 mm/0.17-0.47 inch
 - 4 Drops: 0-6 mm/0-0.23 inch
 - 8 Drops: 0-4.5 mm/0-0.17 inch
 - 4 Flat drops: 8x4.5 mm/0.3x0.17 inch

2 Product image



3 Warnings and caution

3.1 Fiber optic cables may be damaged if bent or curved to a radius that is less than the recommended minimum bend radius. Always observe the recommended bend radius limit when installing fiber optic cables and patch cords.

3.2 Exposure to laser radiation can seriously damage the retina of the eye. Do not look into the ends of any optical fiber. Do not assume the laser power is turned off or that the fiber is disconnected at the other end.

4 Kit content

The kit content is different for the splice and patch application:

4.1 SPLICE APPLICATION



Splice: tray 1 and 2 are not connected when delivered (wrap-around function).

4.2 PATCH APPLICATION



Patch: tray 1 (with patch panel) and tray 2 are connected when delivered.

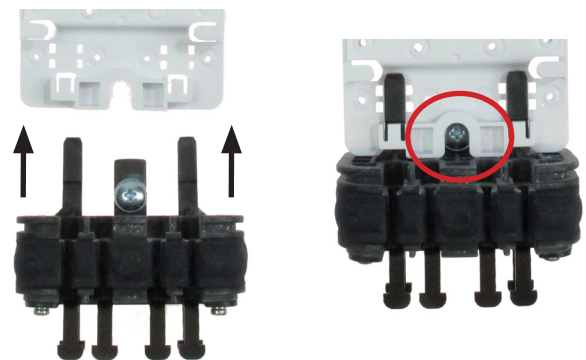
5 Closure preparation



5.1 Open the closure by lifting the latches using a screw driver.



5.2 Install the 2 screws (3 turns) and the wedge (If needed).



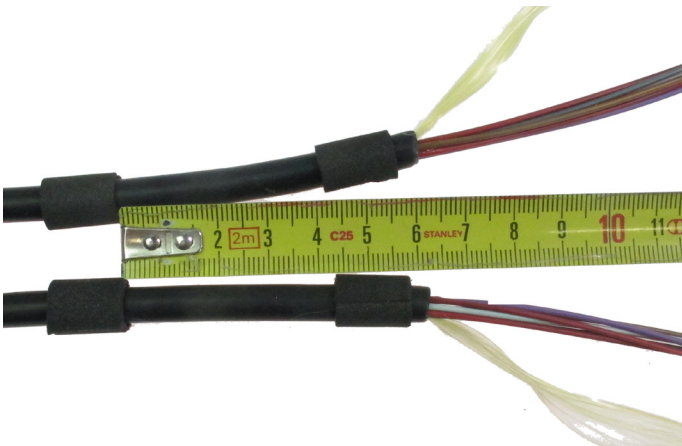
5.3 Slide the gel block on to the organizer (tray 1). Verify the correct orientation: Make sure the screw is underneath the tray.

6 Splice application

6.1 Feeder cable preparation and installation



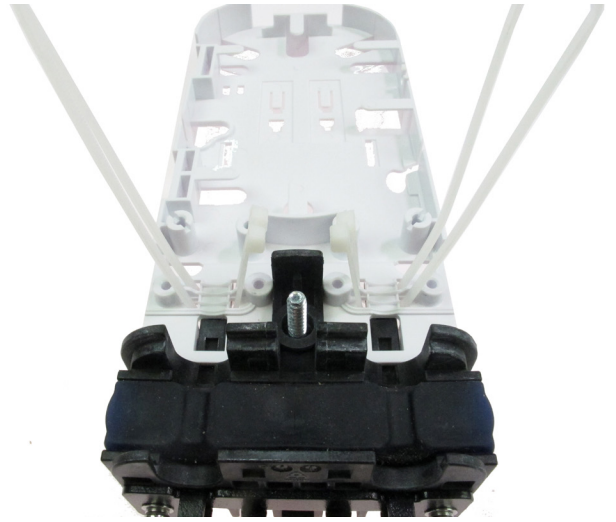
6.1.1 Make a window cut /midspan opening of 1 m/39.37 inches. If aramid is present, cut to a length of 100 mm/4 inches.



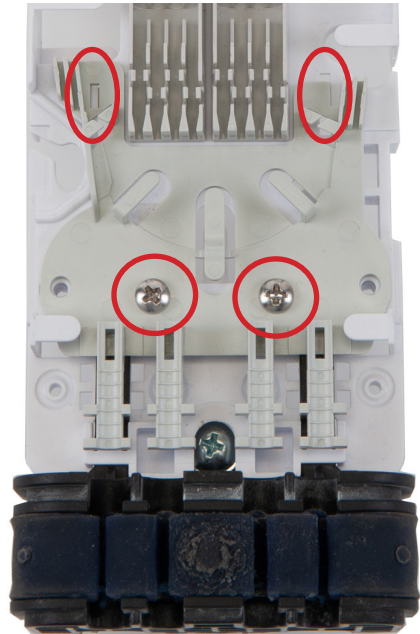
6.1.2 Clean the jacket and apply 2 layers of foam: 1 almost flush with the jacket end and 1 at 60 mm/2.36 inches from the jacket end.



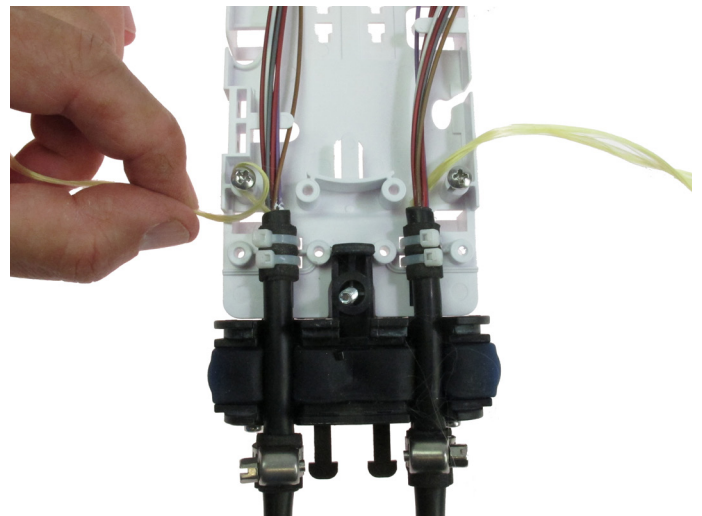
6.1.3 Open the gel block.



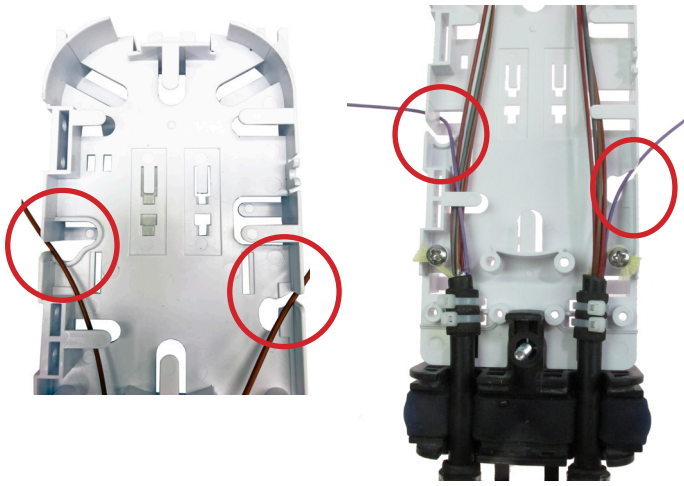
6.1.4 Pre-install the 4 cable ties.



6.1.5 Install the plastic bracket at other side. 2 hooks to snap in rectangular slots and fix with 2 screws.



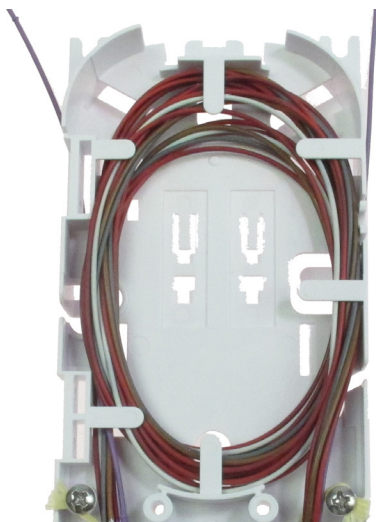
6.1.6 Bring in the cables. Secure externally with the hose clamps, internally with the cable ties. Secure the aramid with the screw (1 turn around the screw and then tighten). Cut the excess aramid.



6.1.7 Route the bundle(s) to be spliced to the back of tray 1 by using the wrap-around slots. With this feature uncut fibers can be routed and stored in the splicing zone.

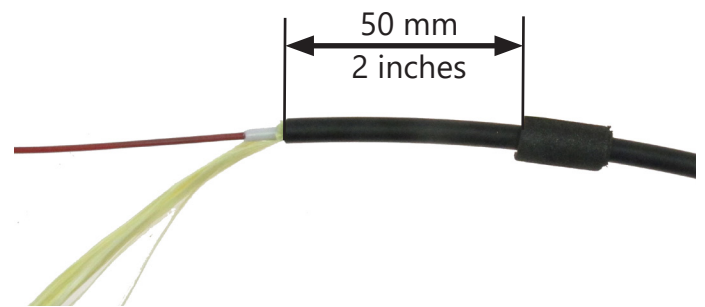


6.1.10 Move to the back side of tray 1. Install the splice holders and store the uncut bundle.

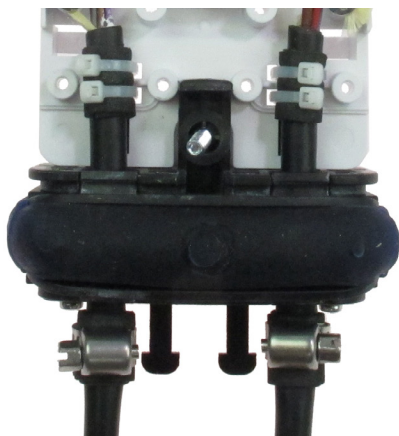


6.1.8 Store the looped bundles as shown.

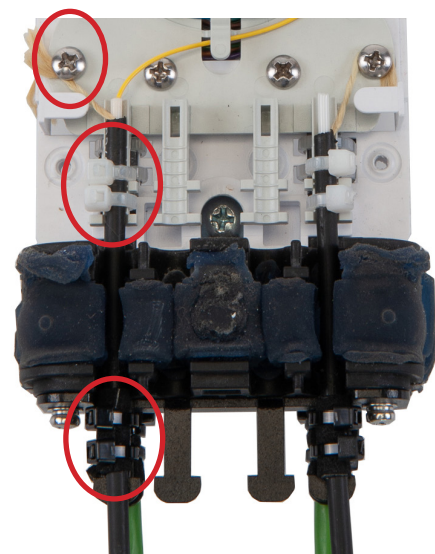
6.2 Drop cable preparation, routing and splicing at tray 1



6.2.1 Remove the jacket over 1 m/39.37 inches. Clean the jacket and apply a layer of foam at 50 mm/2 inches from the jacket end. When aramid is present, cut it to a length of 100 mm/4 inches.



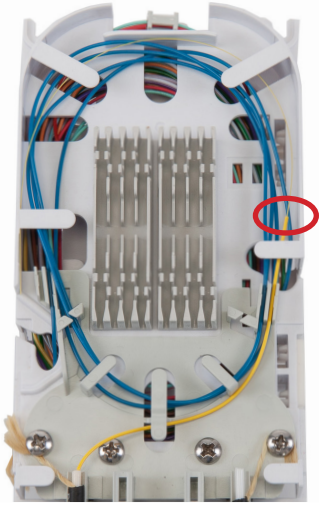
6.1.9 Position the gel segment back in place over the cables.



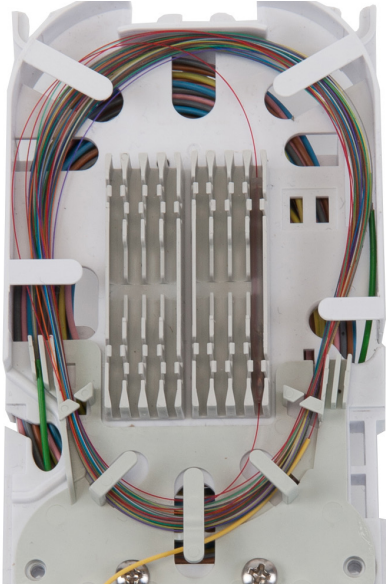
6.2.2 Install the drop cable and secure it as shown: with 2 white tie-wraps to the internal bracket + aramide securing if present and with 2 black tie-wraps to the external bracket.

6.3 Feeder/ Drop cable preparation, routing and splicing at tray 2

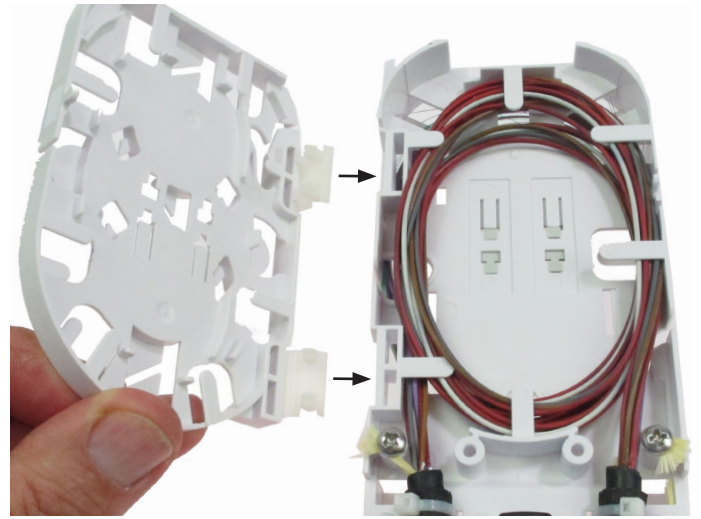
For the feeder cable preparation see section 6.1.



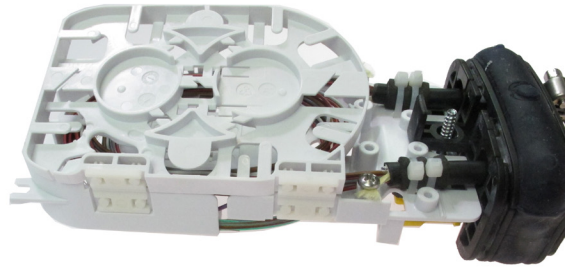
6.2.3 Remove the outer jacket of the bundles at approx. 100 mm/4 inches from jacket end. Cut the feeder fibers at the opposite site from the drops. In case this is not possible route the drops to opposite site.



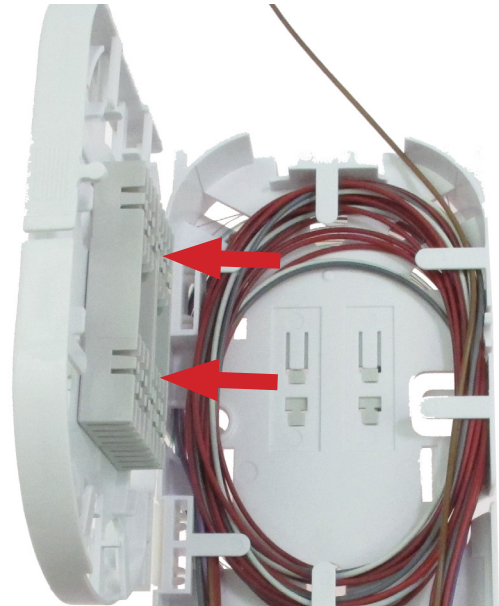
6.2.4 Clean the fibers, make fusion splice and store the fiber overlength properly, make sure that the fibers are routed properly.



6.3.1 Store all loops at the feeder site as shown.



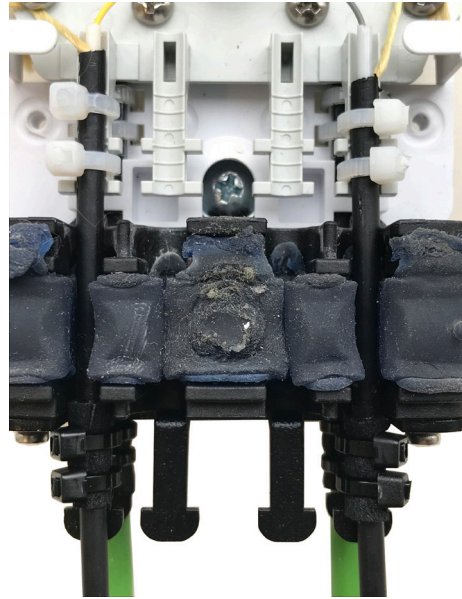
6.3.2 Connect tray 2 to tray 1.



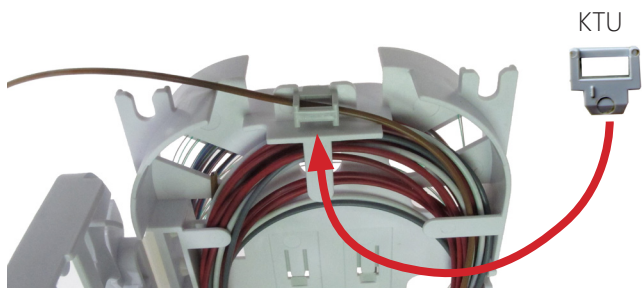
6.3.3 Install the splice holders in tray 2.

6.4 Drop connections

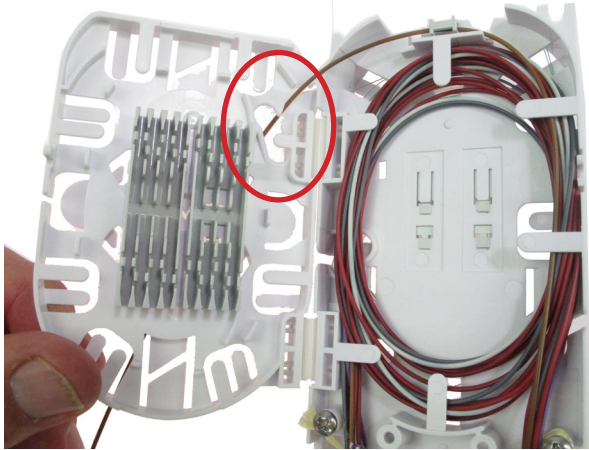
For drop cable preparation see section 6.2.



6.4.1 Secure the drop cable as shown. See step 6.2.2.



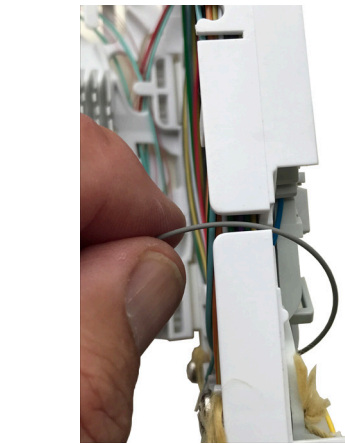
6.3.4 Take out the bundle to be spliced and guide over the top with the ktu.



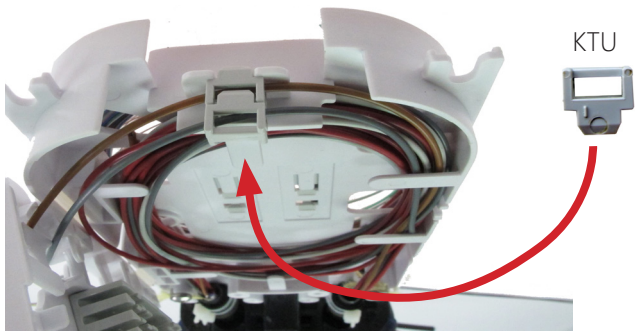
6.3.5 Route the bundle through the slit towards the top area of tray 2.



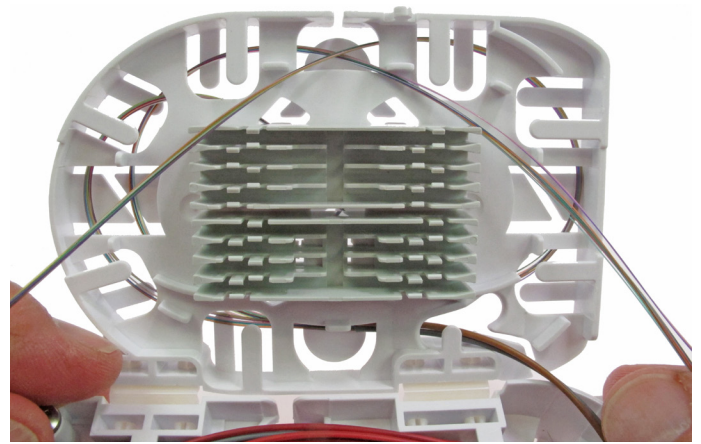
6.3.6 Remove the jacket in the middle of the tray.



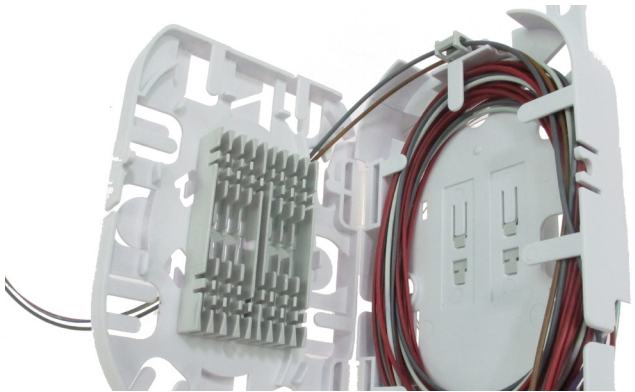
6.4.2 Route the bundle to the top of the tray. Use the slit for guiding the fiber bundle to the opposite side.



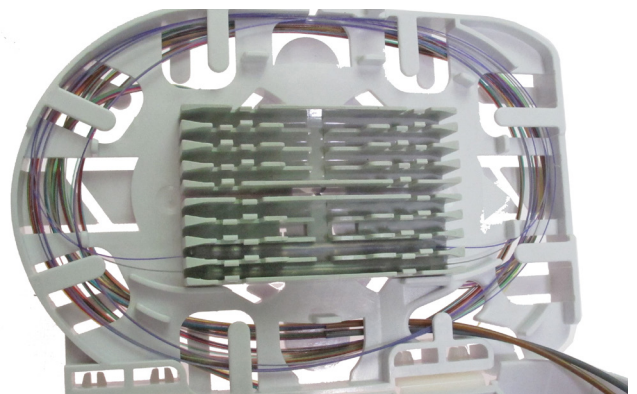
6.4.3 Guide the bundle over the top with the 2nd ktu. The ktu's can be stacked.



6.4.7 Route the fibers through the slit to the splice area of tray 2.



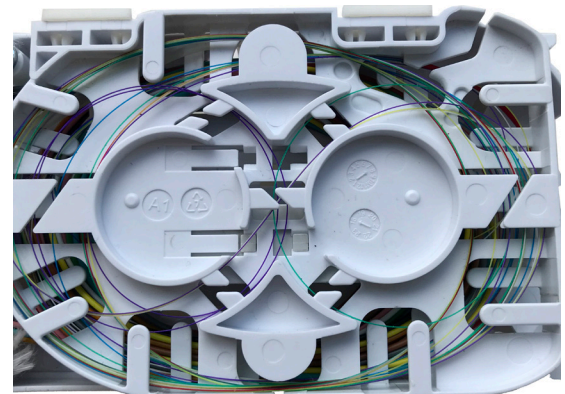
6.4.4 Route the bundle through the slit towards the top area of tray 2.



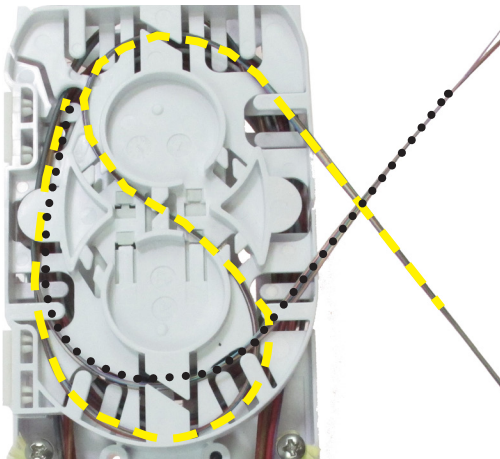
6.4.8 Clean the fibers and make fusion splice. Store the splice protectors and the fiber overlength properly.



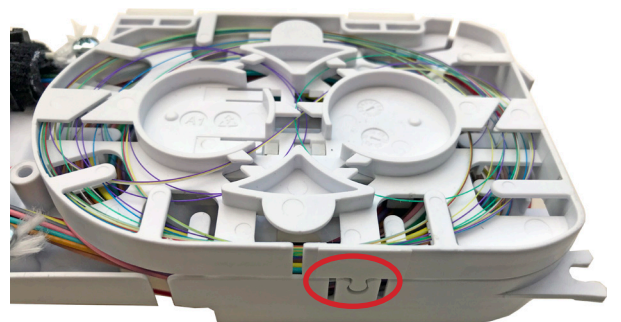
6.4.5 Remove the jacket in the middle of the tray.



6.4.9 In case fiber length may not fit perfectly excess length can be pulled back to the top of the tray where adjustment in storage length can be done. (Small islands can be used). Uncut fibers can also be stored in this zone using the figure 8.



6.4.6 Clean fibers and route as follows: 1 bundle should go via figure 8. The 2nd bundle can go directly.

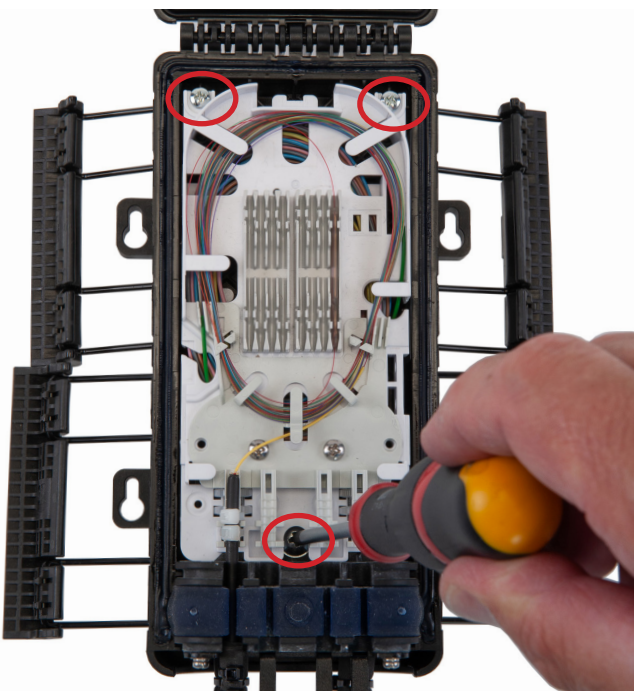


6.4.10 Close properly (snap feature in cavity).

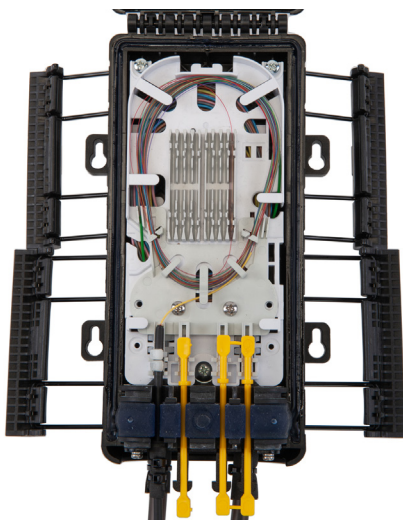
7 Organizer installation in housing



7.1 Install the organizer in the housing by sliding the organizer under the 2 screws.



7.2 Tighten the 3 screws.



7.3 Install blind plugs in all unused ports. Verify that all fibers are routed properly.

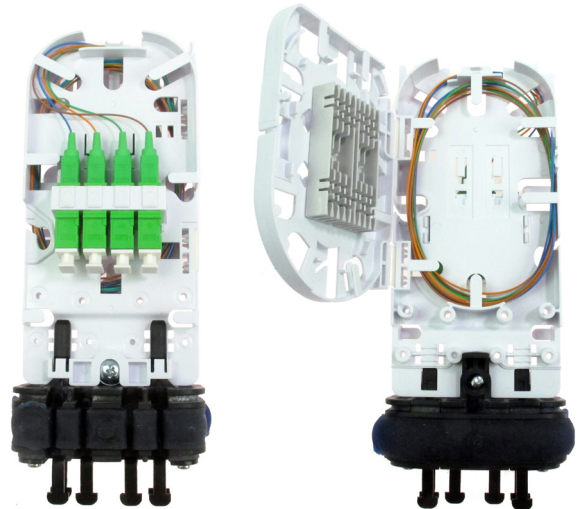


7.4 Close the housing.

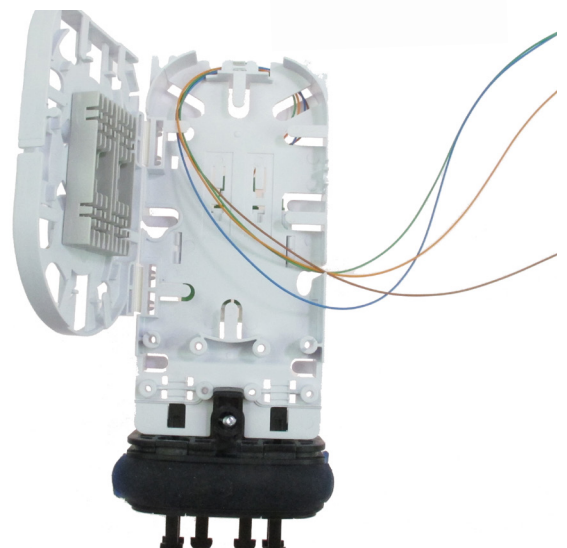
8 Patch application

8.1 Cable preparation, routing and splicing at tray 2

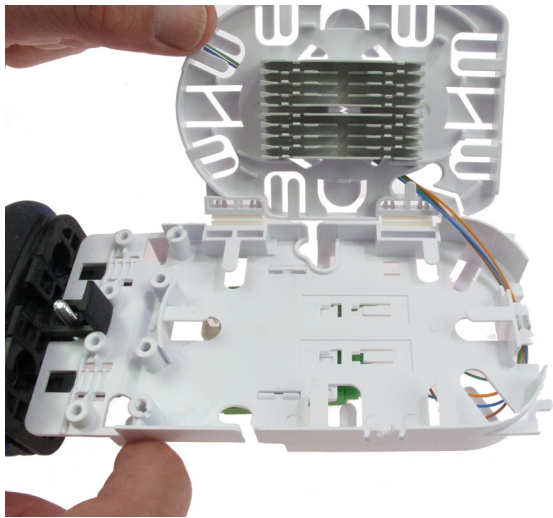
In the patch application splicing is only possible at tray 2.



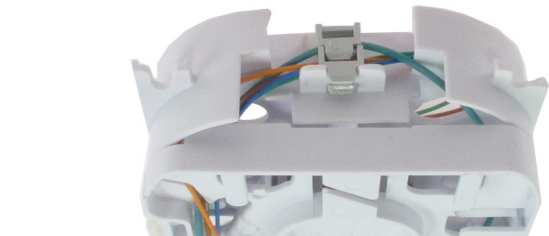
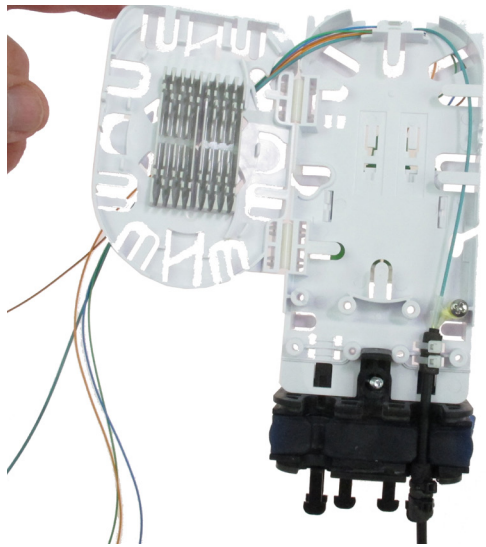
8.1.1 As supplied. Panel with adapters, pre-conn 900µ pigtails and overlength stored.



8.1.2 Take out the 900µ pigtails.



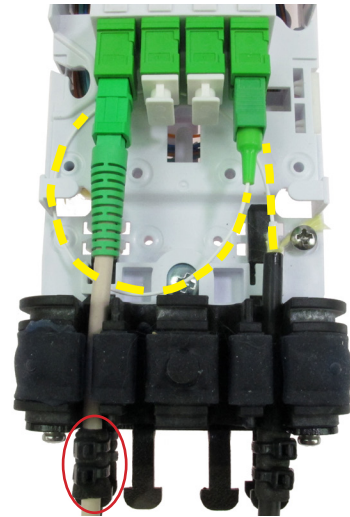
8.1.3 Route the pigtails trough the slit of tray 2.



8.1.4 Install the feeder cable (single or looped) and secure properly (see section 6.1). Route the bundle via the ktu to tray 2.

8.1.5 For splicing on tray 2, see section 6.3.

8.2 Drop connections



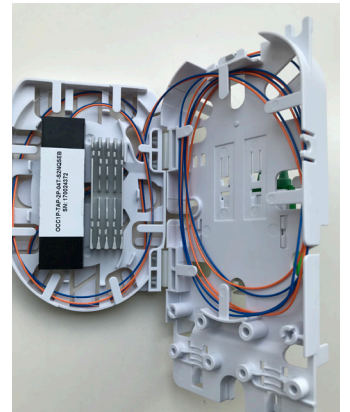
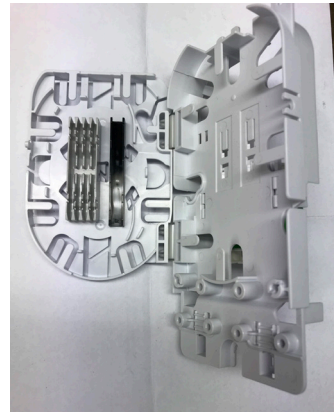
8.2.1 Install the pre-connectorized cable as shown. Secure the cable jacket to the external bracket with foam and cable ties. In case of field installable connectors (FIC), store the 900 μ overlength as shown. If presence of aramid yarn, secure properly with the screw.



8.2.2 Ideal length: 20-25 cm / 7.8-9.8 inches.

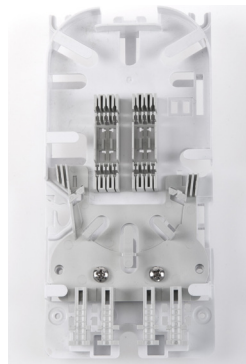
9 Extra features

9.1 Splitter or TAP in tray 2



This option consumes 1 module of 12 splice holders.

9.2 ANT splice holders

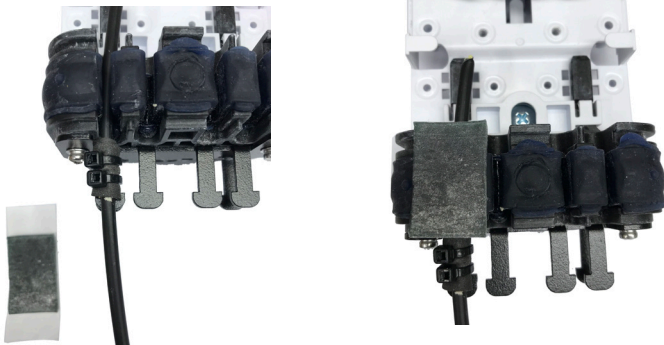


9.3 Demarcation cover

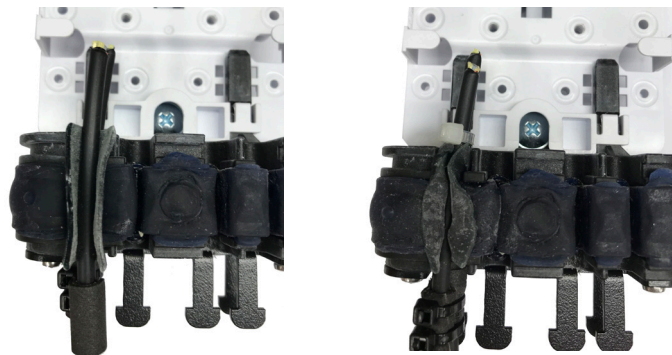


Demarcation cover can be locked in open position.

9.4 2 cables per port

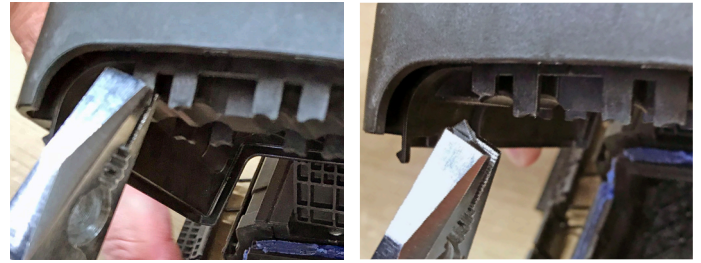


9.4.1 Cut 2 cm (0.78 inch) of gel strip (to be ordered separately) and place the gel strip on top of the first drop inside the port.



9.4.2 Prepare the 2nd cable as standard practice.

Cut 1 of the black cable tie of first cable, put the 2nd drop on top of the gel strip and push down, secure both cables together on the inside with 1 white cable tie and outside with 2 black cable ties to the bracket.



9.4.3 **IMPORTANT:** In order to avoid damaging the cable jacket when 2 cables (diameter ≥ 3 mm / 0.12 inch) are installed in a single drop port, the lip(s) in the cover need to be removed.

To do this, break off the plastic lip by means of a pair of pliers, and be sure to avoid sharp edges (recommended to use sandpaper).

10 Mounting options

- Wall fixation: use mounting tabs.
- Pole fixation: use mounting tabs in combination with plastic or metal hose clamps.
- Strand mount: OFDC-C12 BRKSTRAND (To be ordered separately).



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