COMMSCOPE®

FIST-EDSA2

Contents

1 General product information

The FIST-EDSA2 is an outdoor fiber distribution splice closure.

- 1-2 feeder cables/ducts with an outer diameter range from 4 up to 16 mm.
- 48 drop cables in the rectangular drop ports with a cable range from 5mm up to 8 mm.
- IP68, 2m water head sealing level.
- FIST-SOSA2 fiber management system.
- Option to add additional feeder and drop cables into the round port with standard FIST-RSKG seals.

2 Tools

Standard installation and stripping tooling for fiber optic cables.
No special tools are required for installation of the FIST-EDSA2 fiber closure.

3 Warnings and Cautions

Follow the installation instruction steps to ensure the performance of the closure. It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.

• 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. Looking into the ends of any optical fiber is entirely at your own risk. A protective cap or hood MUST be immediately placed over any radiating adapter or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice also prevents dirt particles from entering the connector and adapter.
• 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, subunits and patch cords.
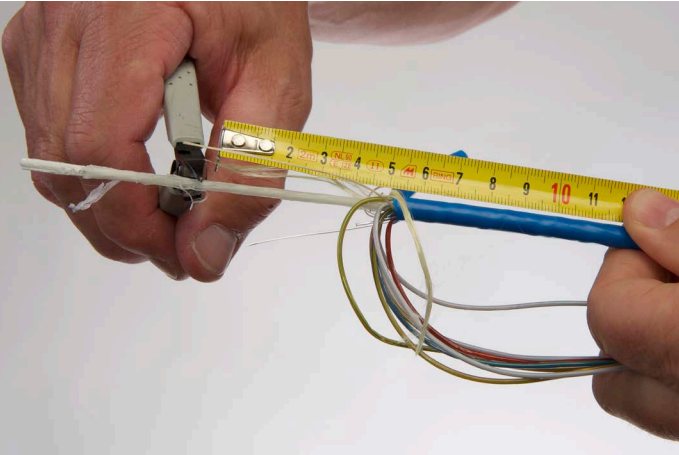
4   Kit content

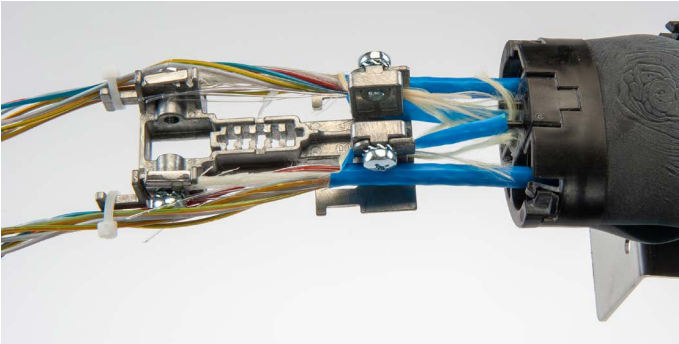Kit content can be various depending on the FIST-EDSA2 accessories.

5 Feeder cable

Loop or single feeder cable is possible. Feeder port: cable/ ducts (4-16mm).

5.1 Make a window cut of 2m.

5.2 Cut the strength member at 50 mm. Keep a minimum of 70 mm aramid and cable jacket for extra fixation.


5.3 Cable fixation: Install the strength member in the holder and fix with metal plate and screw. Fold back the aramid and cable jacket, fix between holder and metal device with screw. T shapes can be used to hold/guide the loose tubes, make sure the tubes are not squeezed by the T-wraps.
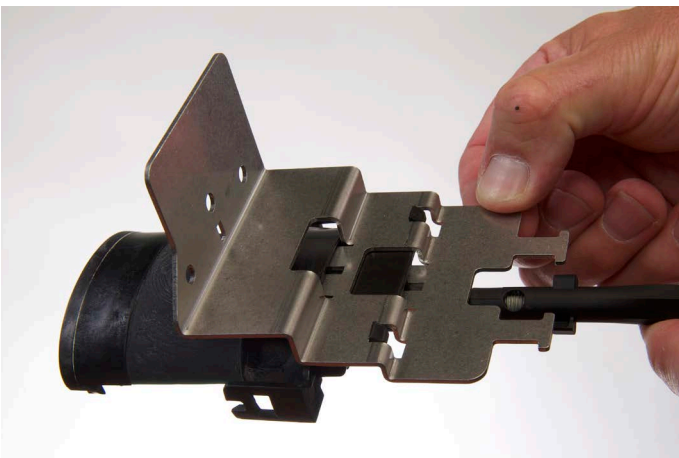

5.4 Fixation of guiding tubes: Install the bottom part of the oval gel seal (with trigger) on to the metal support. Slide in till it hooks up. The outside cable support plate must be installed on all FIST-EDSA2 applications.

8cm
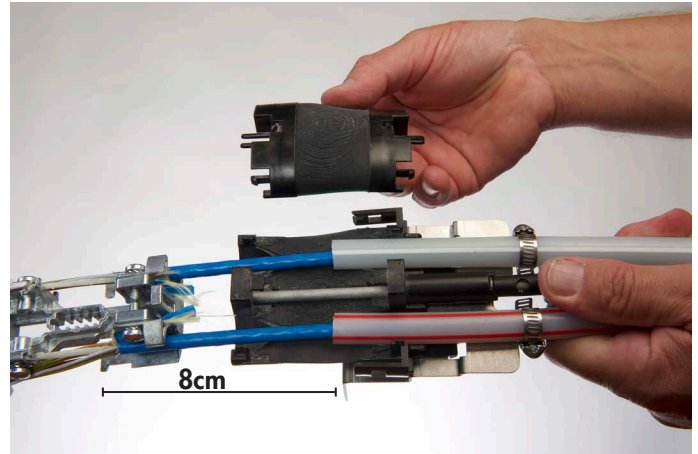
5.5 Install the guiding tubes in such a way that they butt up with the transition in the gel profile. Fix the tubes to the metal bracket with hose clamps. If only one cable/tube is used, the unused port needs to be filled with the dummy rod.
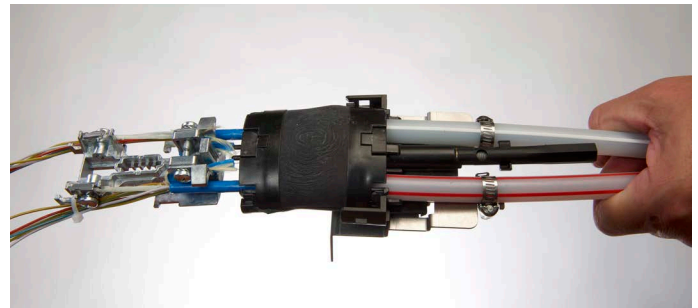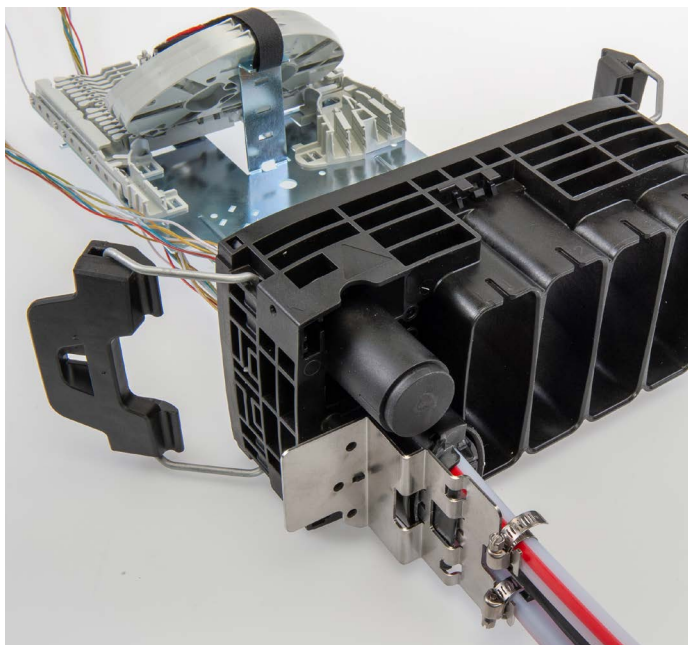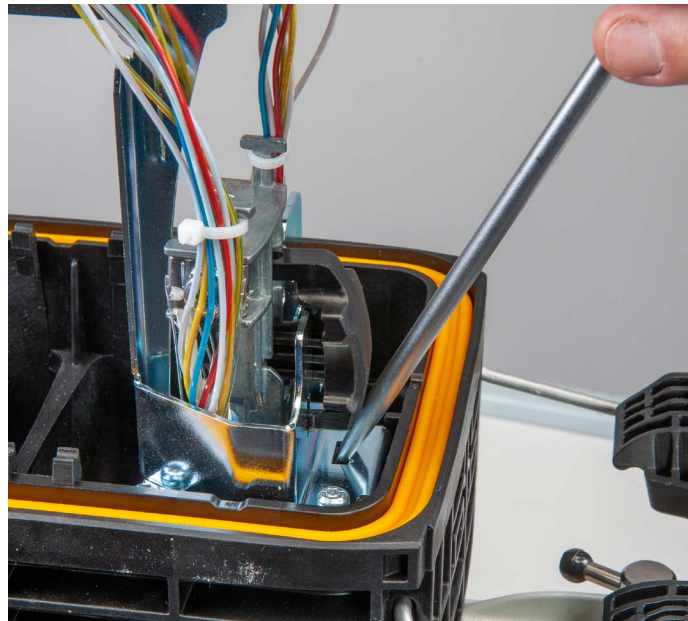

5.6 Close the gel block.
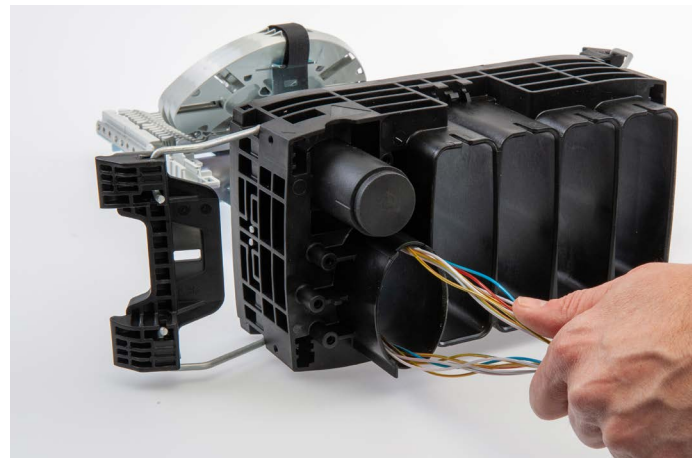
5.7 Finishing the oval port: Feed the loop trough the oval port. Make sure you guide the oval gelblock correct into the base. Letter A on the gelblock flange should be near letter A on the base. When larger tubes/cables are installed it can help to apply some amount of oil to the gelblock surface and the inner wall of the port.
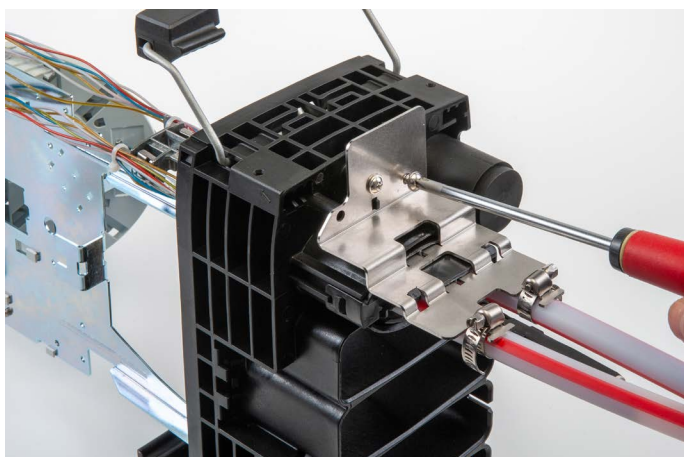
5.8　　　Make sure the flange of the gelblock is locked onto the base by 1 snapfit.

5.9　　　Fix the metal bracket to the base with the 3 screws. The lip of the metal plate can be fixed into a workstand. This can help you with the installation of all the cables/tubes.
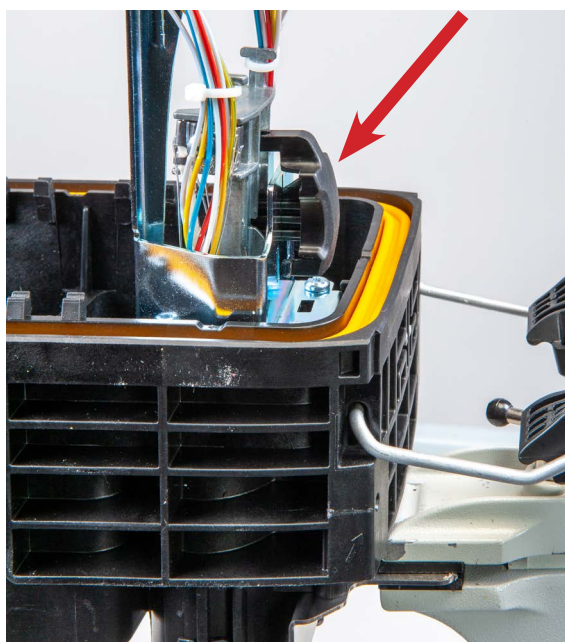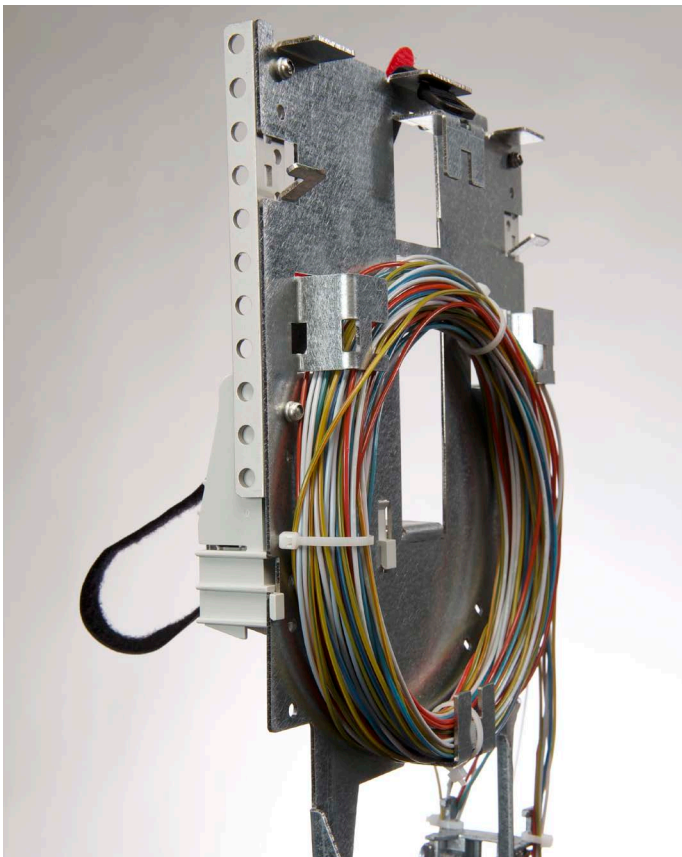

5.10　　　Lock the cable/tube holder with the plastic part. A flat screwdriver can be used to lock the plastic part onto the metal basket. Check if the 2 snapfits are snapped in properly.
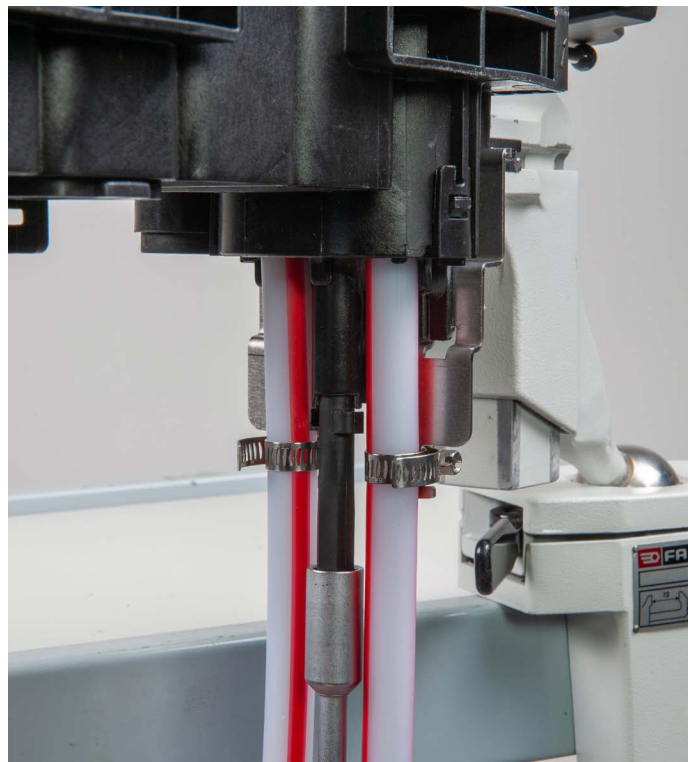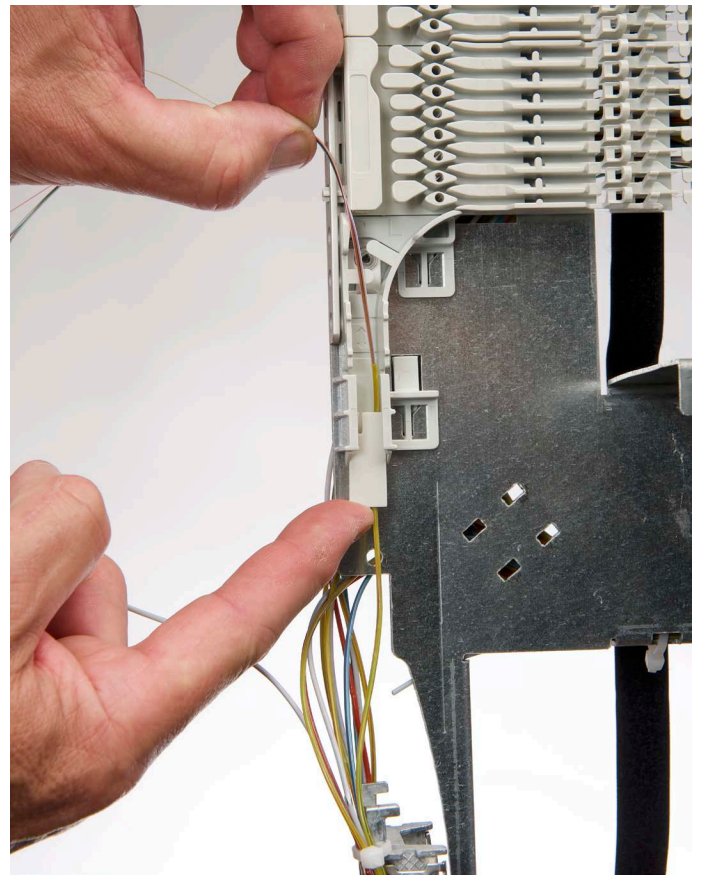

5.11　　　To seal the cables/tubes: turn the trigger till the 2 wings on the trigger make contact with the 2 lips on the shaft of the gelblock.
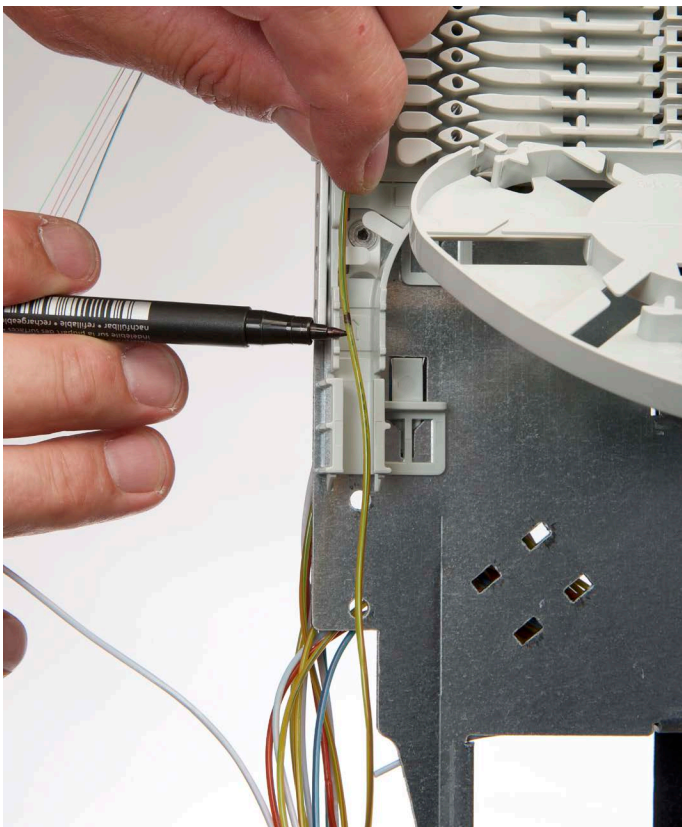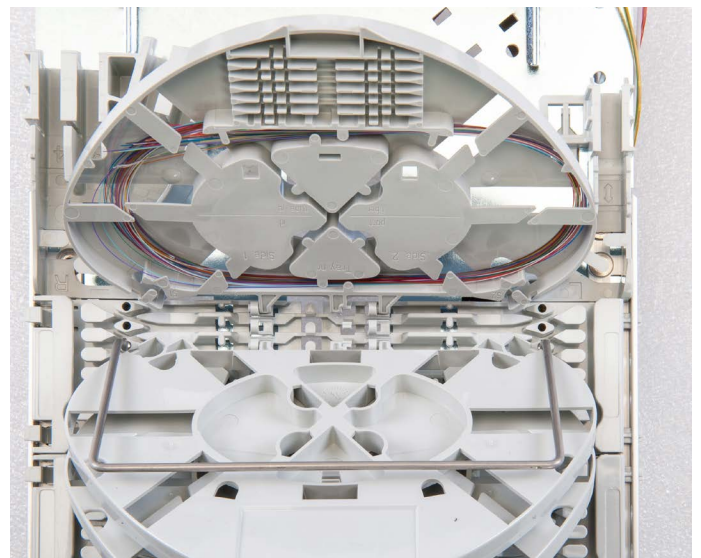
5.12   Loop storage: Store the loops properly.

5.13   Fiber routing: Guide the loose tubes to the tube holder at the left side. Mark the loose tube as shown (between 2 marking lines at the holder).
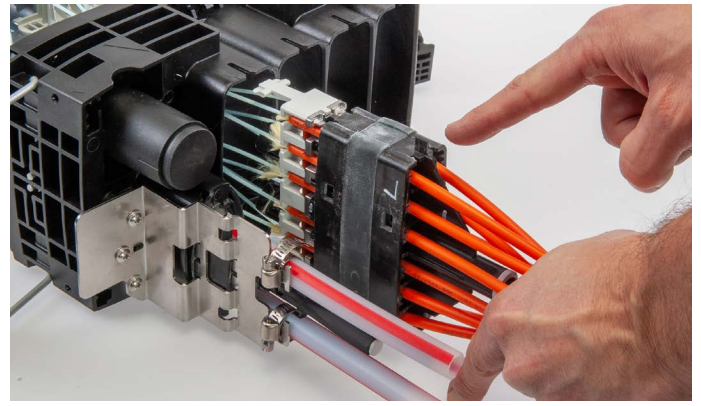

5.14   Strip the tubes and place into the tube holder. Make sure the tubes are kept in place by correct installation of the tube holder retainer.

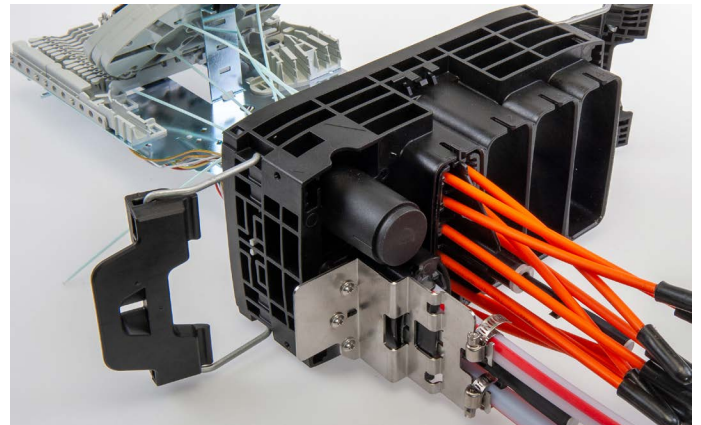5.15   Guide the fibers to the cassette as standard practice.

6   Drop cable

Direct buried cable or guiding tubes 5-8 mm.

6.1   Drop cable preparation: Remove the outer jacket over 1.75m. Cut away the aramid.


6.2   Installation of the drop cable in the gel seal: Open the gel seal, push in the cable or guiding tube as shown.
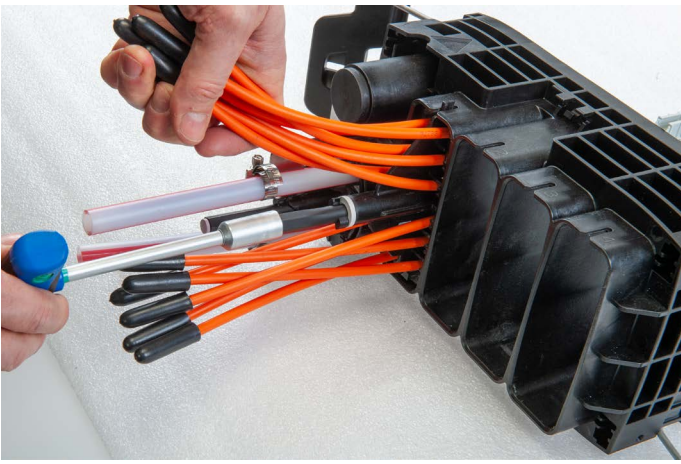

6.3   Unused ports need to be filled with dummy rods.

6.4   Finishing the drop port: Feed the assembly through the port till it butts up with the base. (click system). Attention: only one orientation feasible, make sure the rib on the gelblock will be aligned into the channel of the 4 rectangular drop ports .
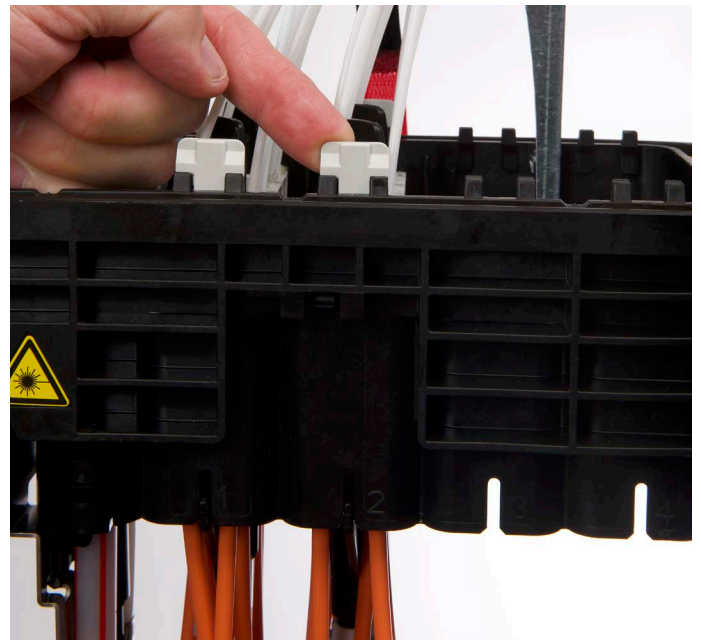
6.5   Push the 2 grey plastic wings over the 2 protruding legs.

6.6 When the gelblock is completely filled with cables/ tubes/blindplugs the seal mechanism must be engaged by turning the trigger on the central bolt until the 2 lips make contact with the grey color gland.

6.7 Fiber routing: Use the corresponding funnels of the tube holders to guide the tubes. Tubes from port 1,2,3,4 to funnel 1,2,3,4. Strip the tubes between the marking lines, guide into the corresponding funnel and fix as shown.

6.8 In case a cable needs to be added release the trigger and remove the dummy rod. To add a cable/ tube, release the trigger, remove the blind plug and prepare new cable as described above.
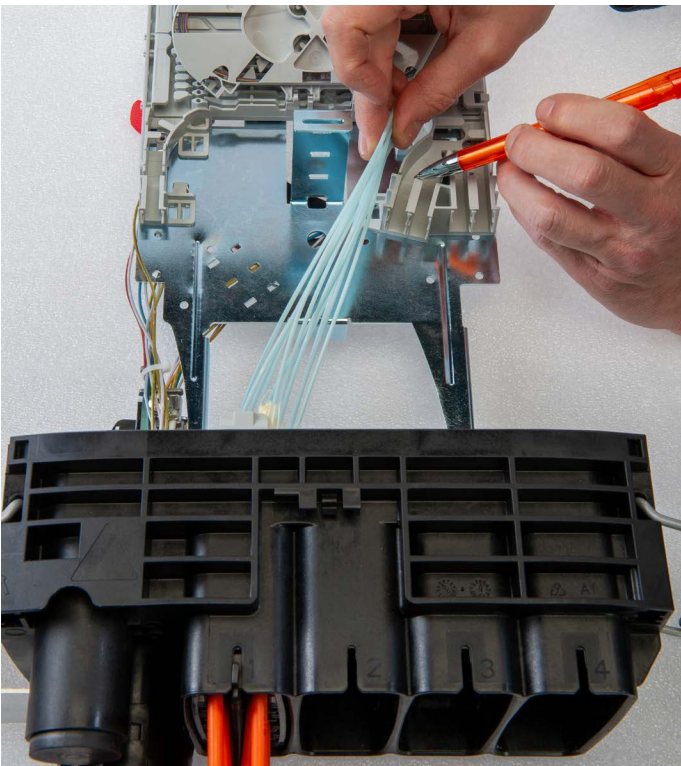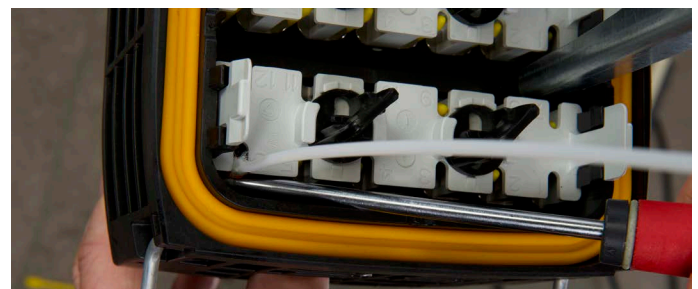

6.9 Insert the loose tube from the cable.
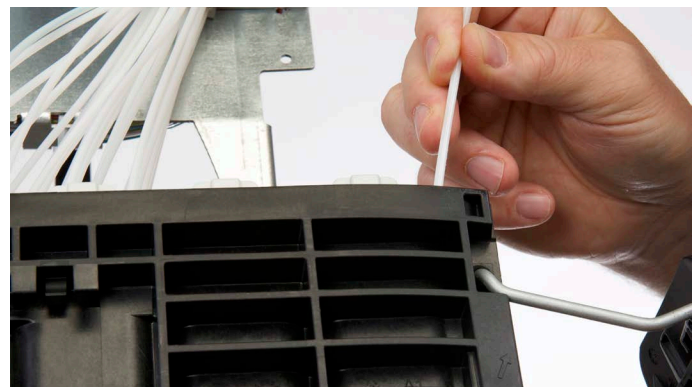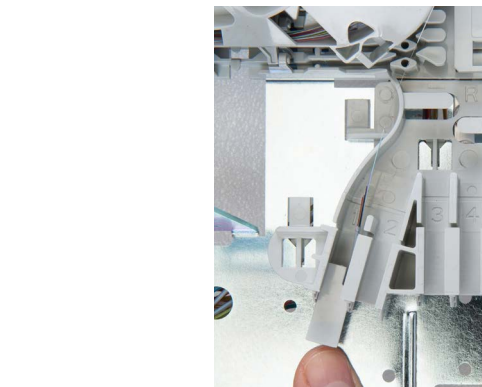
6.10 Pull from the inside till the outer jacket is at the spring.

6.11 Use a flat screw driver to push the cable jacket in to the spring. Tighten the trigger as standard practice.

6.12   Dummy blindseal plug.

If you do not need the full capacity at day 1, the dummy blindseal plug can be used to seal the port. Afterwards this dummy blindseal plug can be removed and replaced by an gelblock to increase the cable capacity.
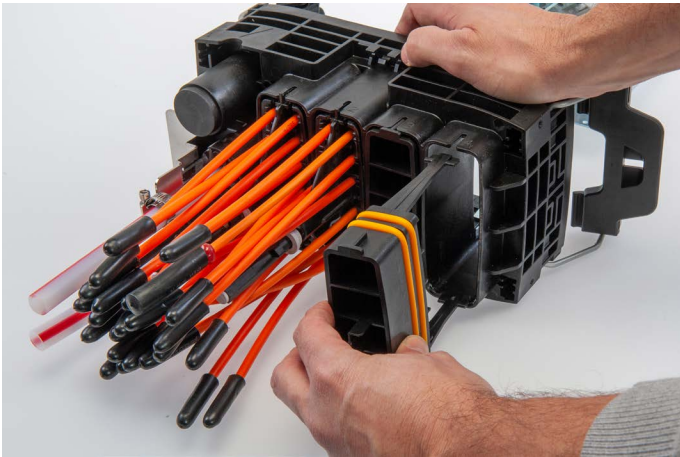
Make sure the 2 yellow o-rings are properly installed into the grooves of the dummy blindseal. Apply some silicon oil to the o-rings and the inner wall of the port, this will help you to slide in the dummy blindseal in the drop port.
Make sure the 2 lips are locked with the base.
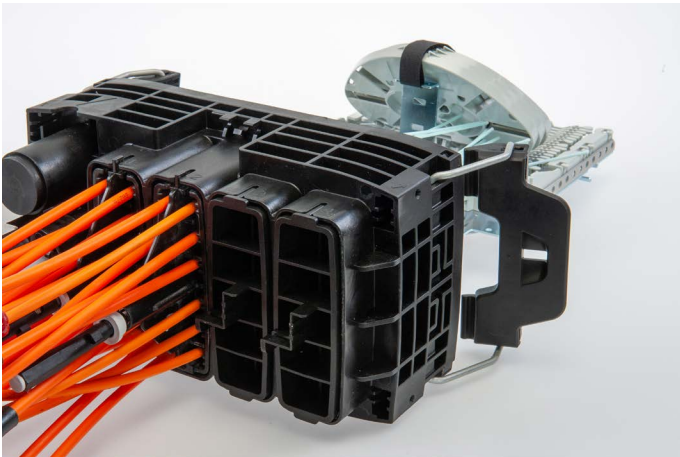
7   Gel block replacement
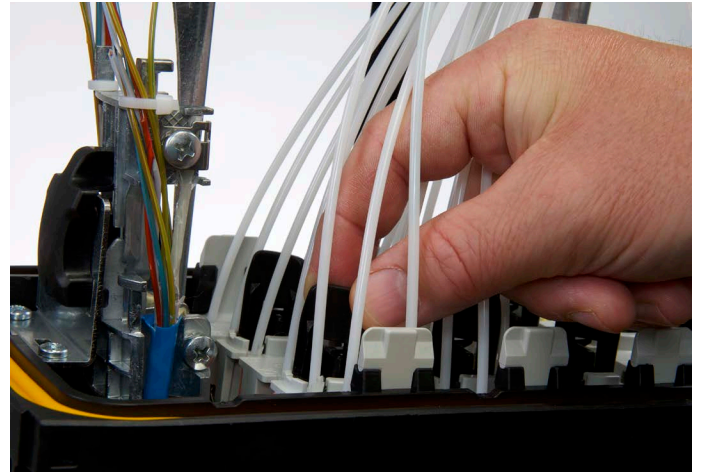
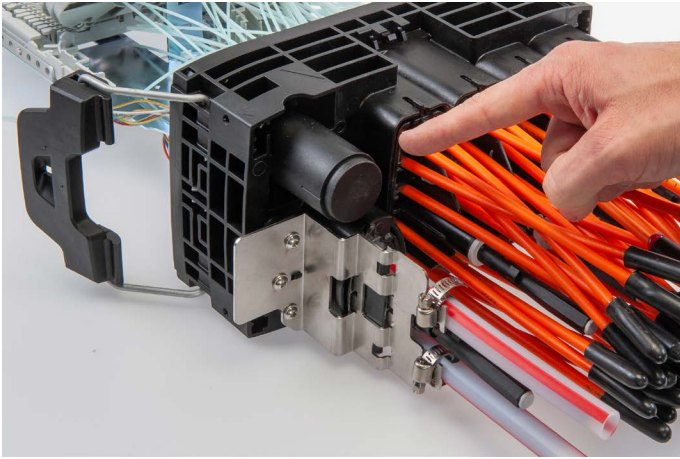

7.1   Quarter turn the 2 wings.
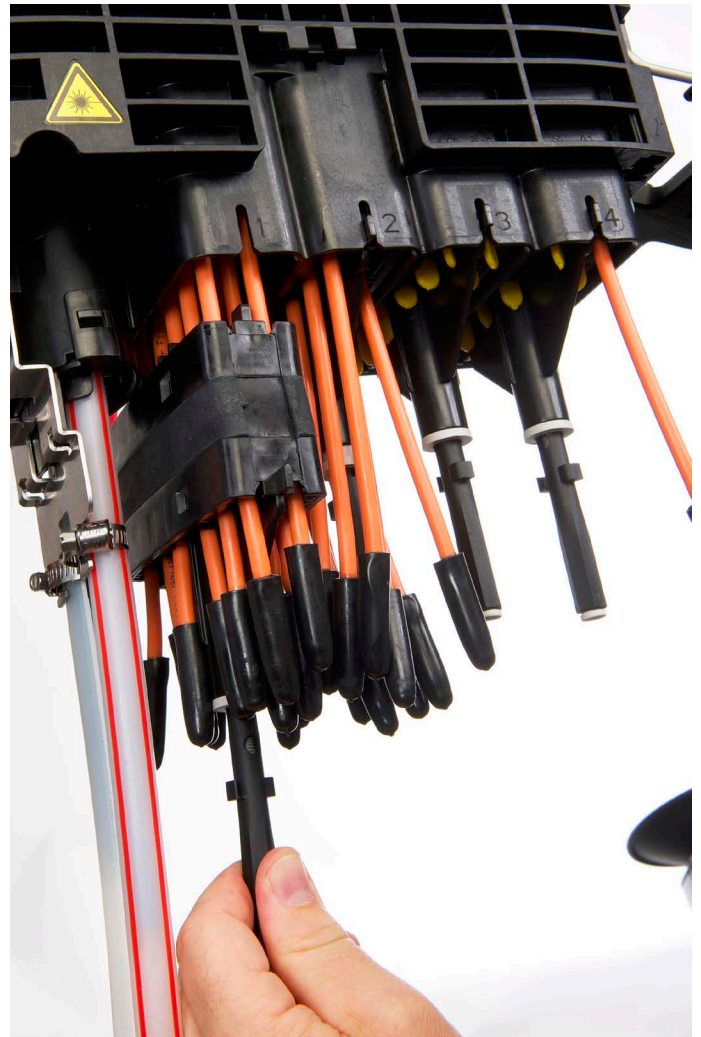
7.2   Release the trigger, pull out open and remove. Take a new gel block and install.

8   Adding additional cables

Gel seal kits for the round port are available with different amounts of cables. Use the appropriate Round Seal Kit Gel (RSKG) and follow the installation instruction delivered with the RSKG kit to install the round gel seal.
Depending on the used cable you can route the fibers to the left or right tube holder as standard practice.
Recommended is to divide the fibers that are coming from the round port in separate slots by using more tube holder retainers. Make sure the tube holder retainer is snapped in properly.

# 9   Closing the FIST-EDSA2

9.1   Make sure that the seal is clean. Put on the dome and close the 2 latches. Double check if all triggers are tightened.

9.2   Depending on the closure configuration the dome can have a pressure valve installed on the top. Max 0.2 bar pressure can be applied to the pressure valve. Check the tightness of the closure if closure is properly sealed. Release the pressure after the test and install the valve protection dustcover.

10   Optional: EDSA-MOBRA
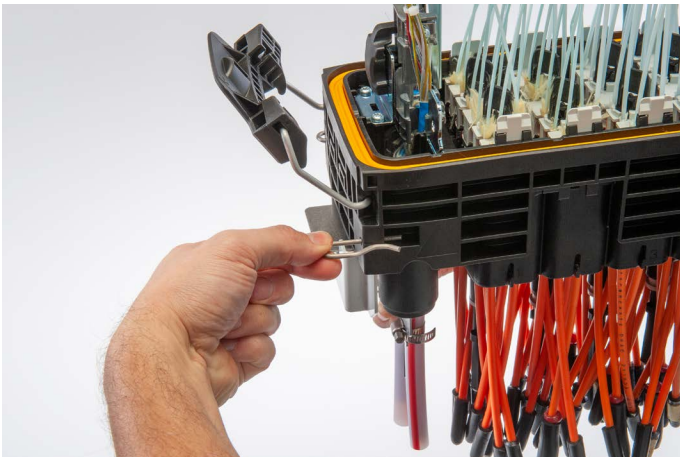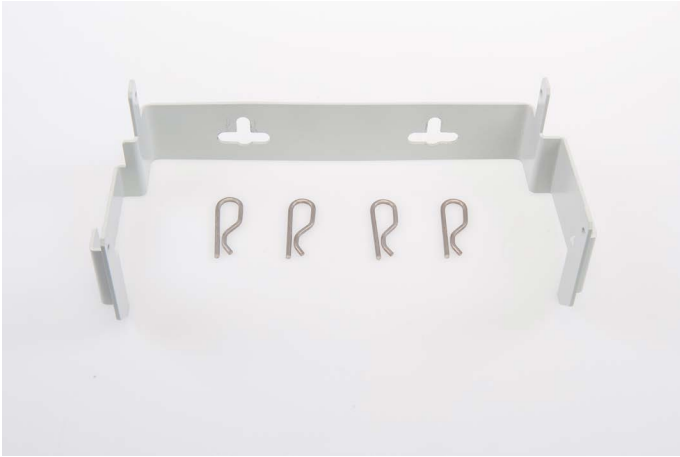
10.1   When the EDSA-MOBRA is used the FIST-EDSA2 base can be mounted on the 4 lips and easy locked with the 4 split pins.

11   Trademarks and patents

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