COMMSCOPE®

FACT CABLE TERMINATION UNIT (FACT-ACCCTUMLT)
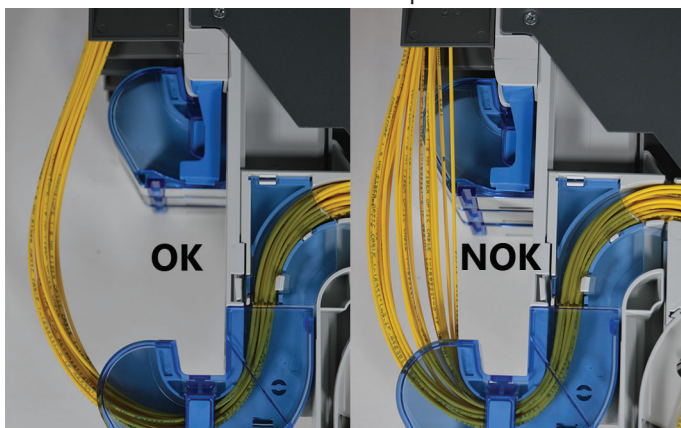
Contents

1.   General product information

• The loose tube cable termination unit is designed to accomodate 1x fiber cable with a cable diameter between Ø 8.5 mm - Ø 15 mm or 1x flex tube Ø 12 mm / 2x flex tube Ø 6 mm.

• The cable needs to be flexible enough to allow a bend radius less than 75 mm for IFC cable strength members with a diameter less than Ø 2.5 mm.

• Loose tubes need to be flexible enough to allow a bend radius less than 30 mm (only for tube routing by multi CTU modules).

• The kit contains all parts to install 1 piece of fiber cable / flex tube on 2 FACT elements.

2.   Warnings and caution

• 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.

• 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.
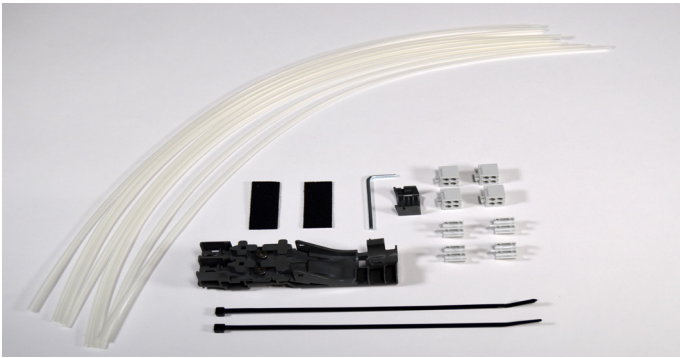

• Pay attention to the routing of the patch cords. These should move/hang freely, where they leave the bend control. If you see that there is tension occuring on the patch cords, please reroute these.
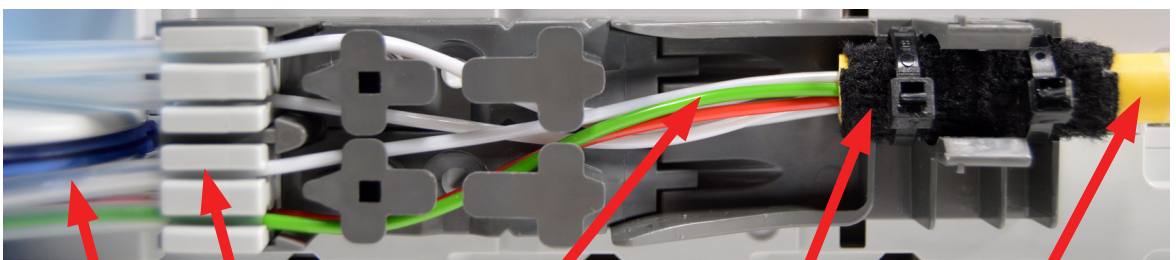
3.   Product image
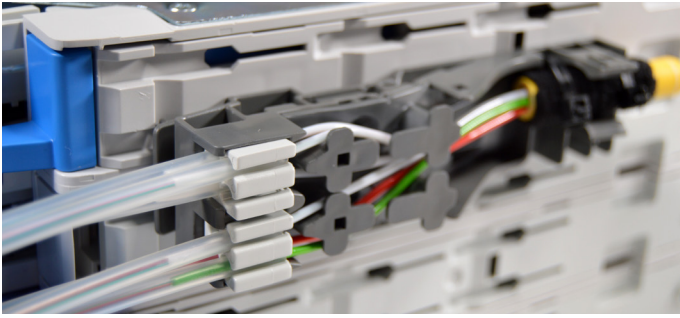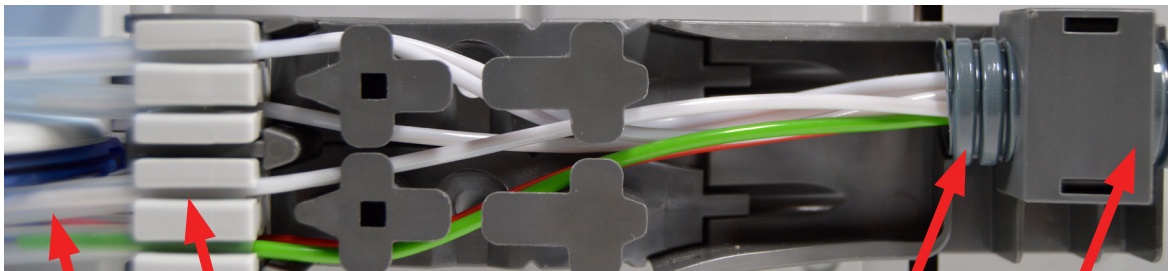

4.   Kit content

- 1x Cable termination unit medium
- 1x Cover for flex tube Ø 12 mm
- 8x Transportation tube 430 mm
- 4x Tube holder
- 4x Low tube holder
- 2x Foam
- 2x Tie wrap black
- 1x Allen key

Note: Check kit content and length of tubes before installation.

For FACT-xExHP 430 mm is ok, cut these to 400 mm for FACT-xESPL!

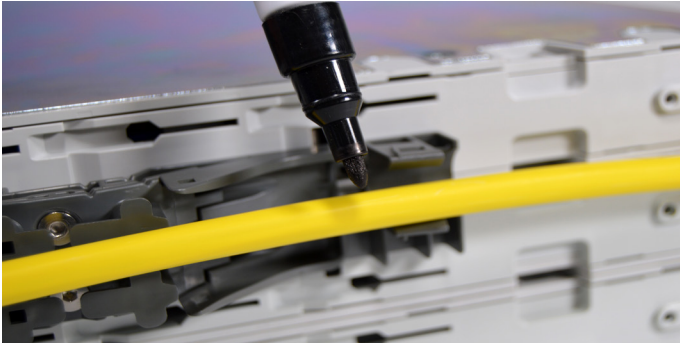| Fopt tube | Fopt tube holder | Strength member | Foam + Tie Wraps | Cable Ø < 15 mm and bend radius < 75 mm |

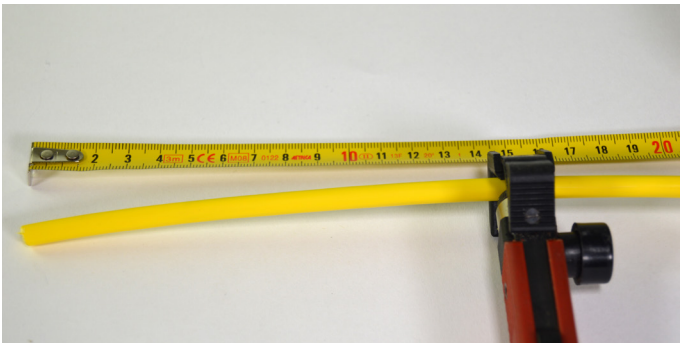| Fopt tube | Fopt tube holder | Flex Tube | Cover |

Example when installed.

5.   Cable preparation
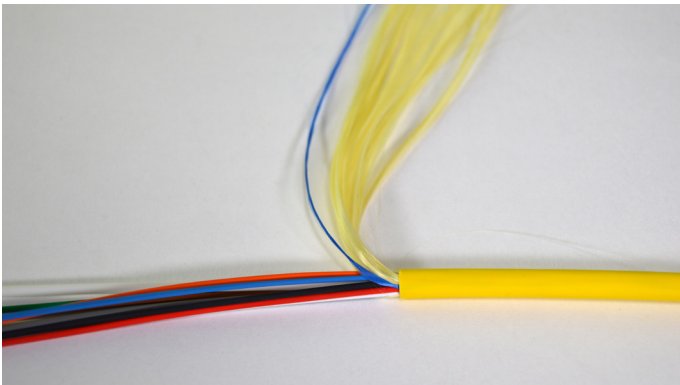## 5.1.   General cable preparation
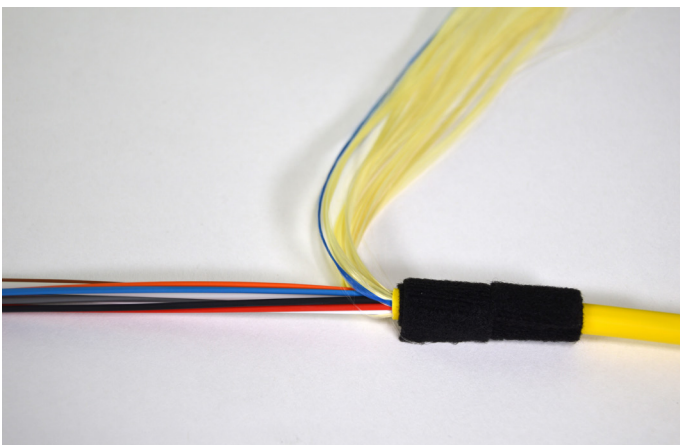

5.1.1.   Mark the stripping point on the cable jacket. Make sure that you have at least 2 meters of cable left.

5.1.2.   Cut the cable jacket at the marked point and approx. 150 mm from the cable end to get access to the rip cord.
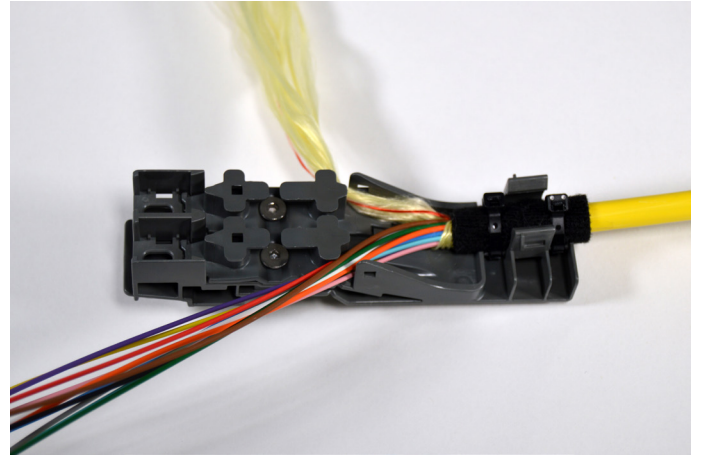

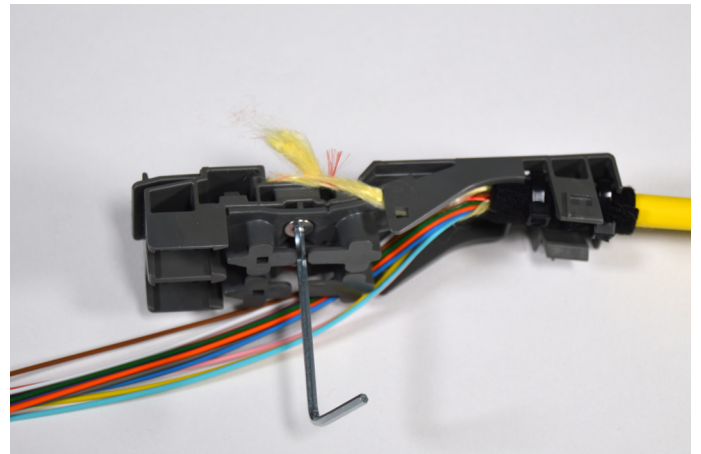5.1.3.   Use the rip cord to strip off the cable jacket.

5.1.4.   Separate the aramid yarns from the loose tubes. Apply a piece of foam.

5.2.   Cable preparation without central strength member
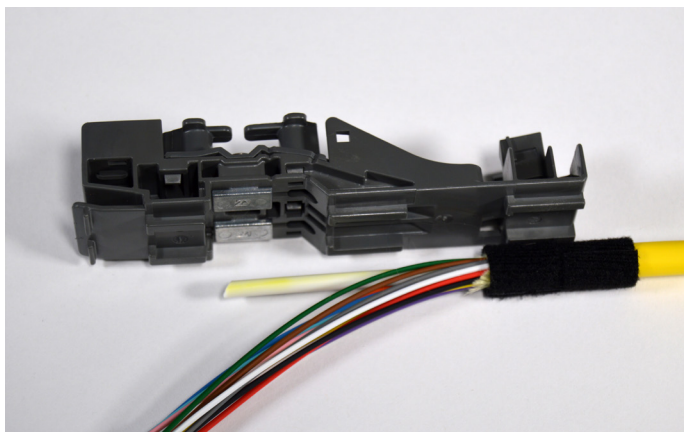

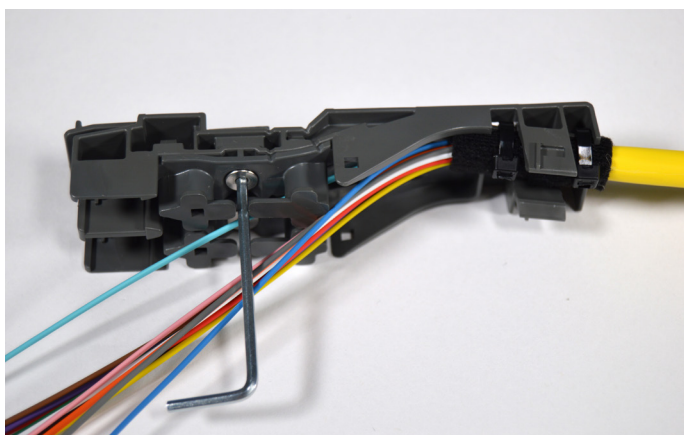5.2.1.   Fix the cable with 2 tie wraps. Route the aramid yarns to the backside of the bracket.

5.2.2.   Make several turns around the strength member connector to fix the aramid yarns, using the allen key.

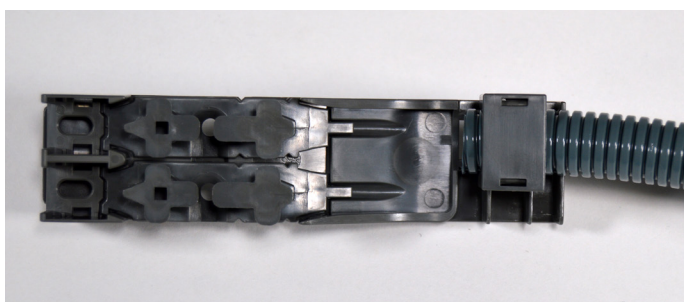## 5.3.   Cable preparation with central strength member

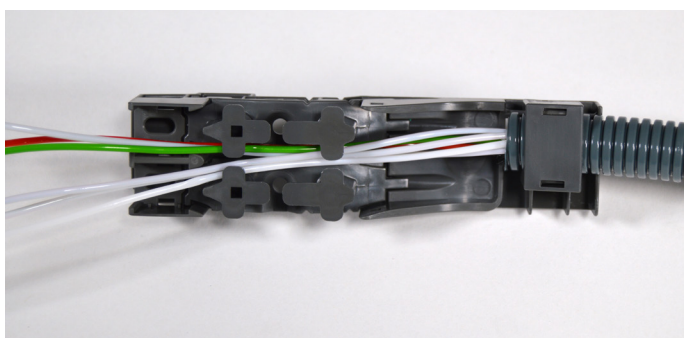5.3.1.   Cut the strength member on length of +/- 70 mm.

5.3.2.   Feed the strength member to the backside. Fix the strength member, using the Allen key.

5.4.   1x flex tube ⌀ 12 mm

5.4.1.   Install the ⌀ 12 mm flex tube and install the cover.
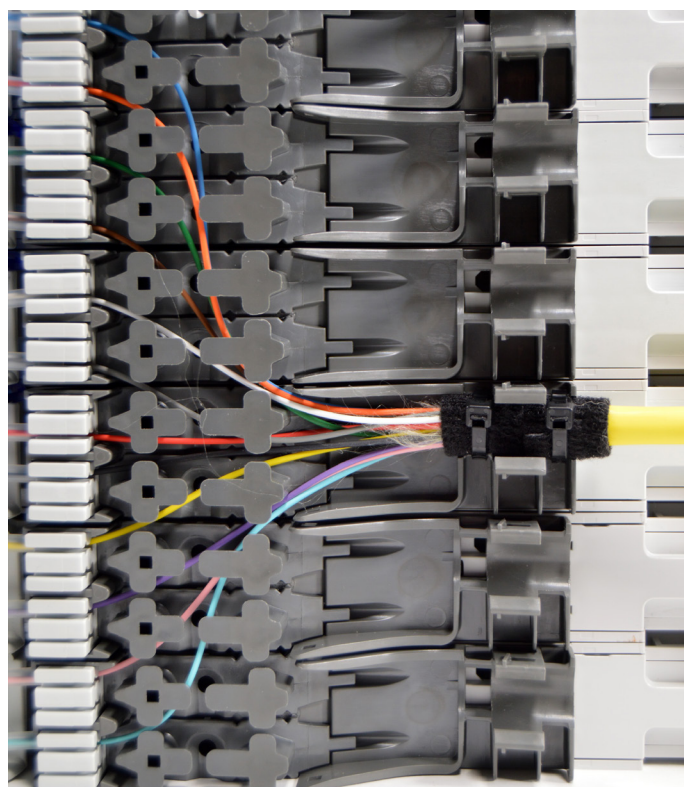

5.4.2.   Feed all loose tubes through, as shown.

## 5.5.   Loose tube routing by multi CTU-M brackets

5.5.1.   A high fiber count loose tube cable can be routed with a maximum of 6 FACT elements. Us the CTU bracket mounted in the middle of the row for mounting the cable. Route and divide the loose tubes via the shortest and most bendless way to the different CTU elements.

Note: Loose tubes need to be flexible enough to allow a bend radius less than 30 mm.

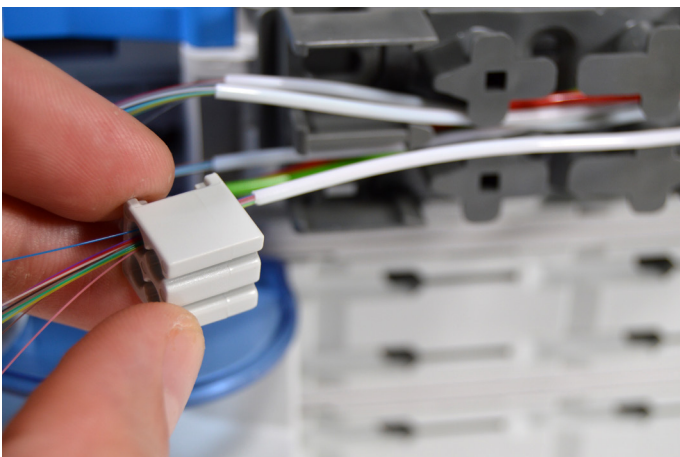# 6. Routing and termination on FACT-xESPL (splice element)
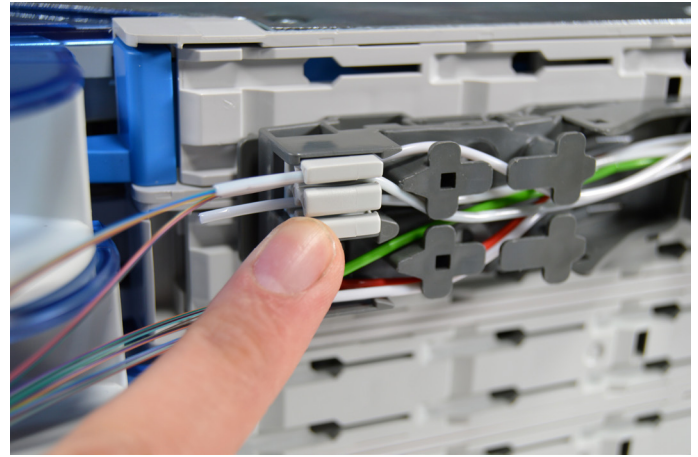
6.1. Termination
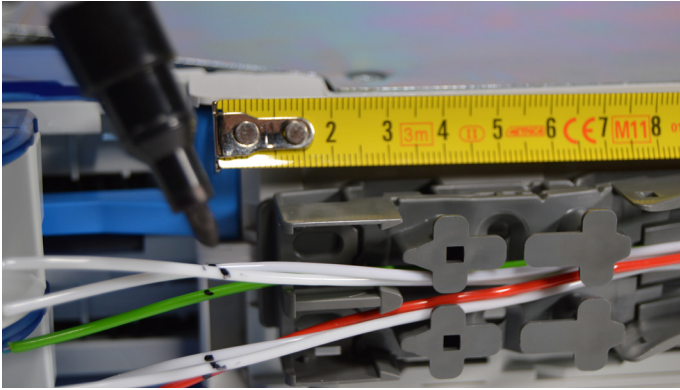
6.1.1.   Slide on the CTU bracket. Mark the loose tubes at 1 cm of the tube holder.

6.1.2.   Strip the loose tubes at the marked point and clean the fibers.

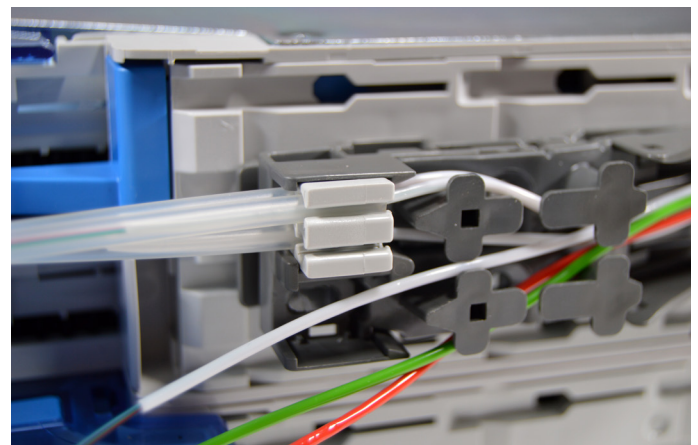6.1.3.   Slide on the tube holder.

6.1.4.   Slide and click the tube holder into the CTU bracket.
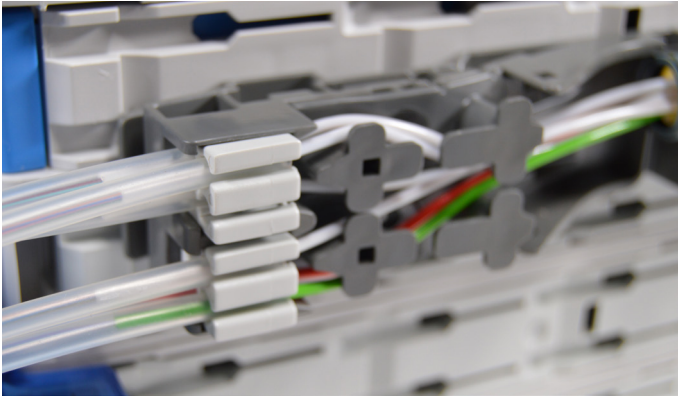

6.1.5.   Feed the fibers into the -correct length- transportation tubes.

Note: These transportation tubes have to be cut to 400mm first (for GSS)!

6.1.6.   Slide the transportation tubes in the tube holder. Make sure that the transportation tubes are pushed in,until the end. Make sure you route these as shown.
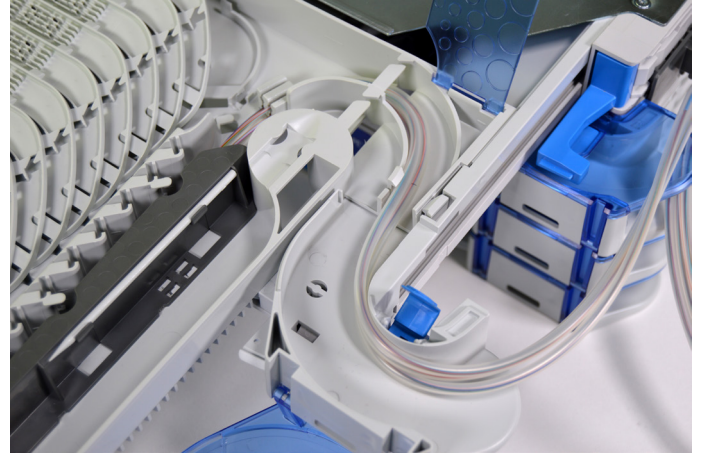
6.1.7.   Repeat previous 4 steps for the second tube holder.

6.1.9.   Slide the other sides of the transportation tubes in the other tube holer. Open the lids. Push / slide all transportation tubes one by one into the tray.
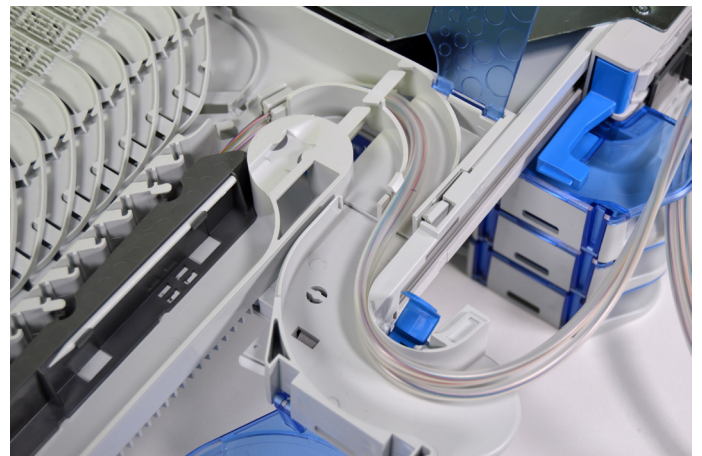

6.1.10.   Push and click the tube holder into the tray. Route the transtportation tubes into the FACT element.
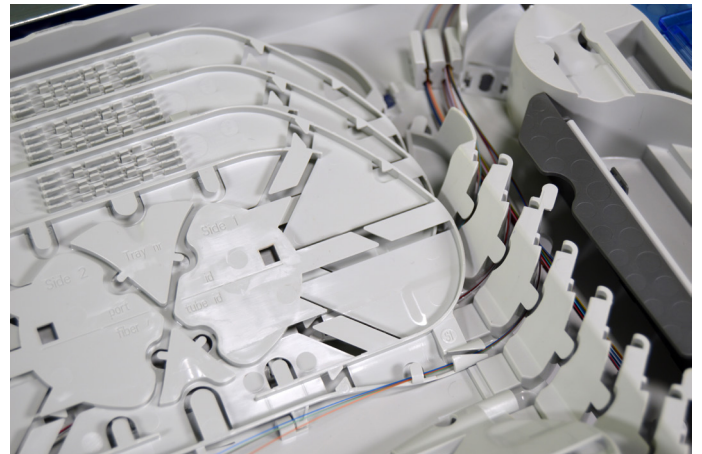

6.1.11.   If needed, repeat previous step for transportation tubes 5 to 8.
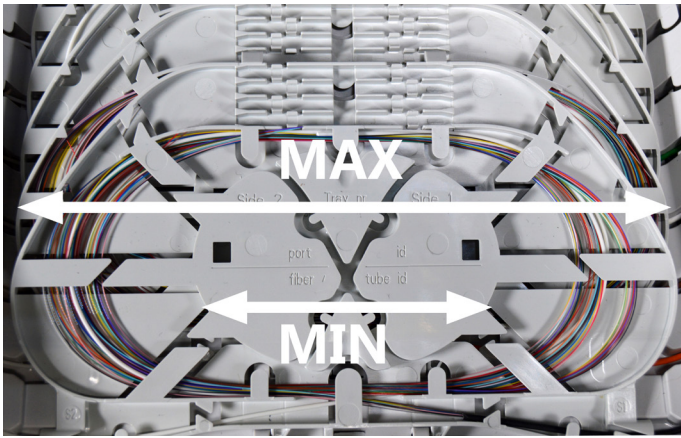
6.2.   Inside routing and termination
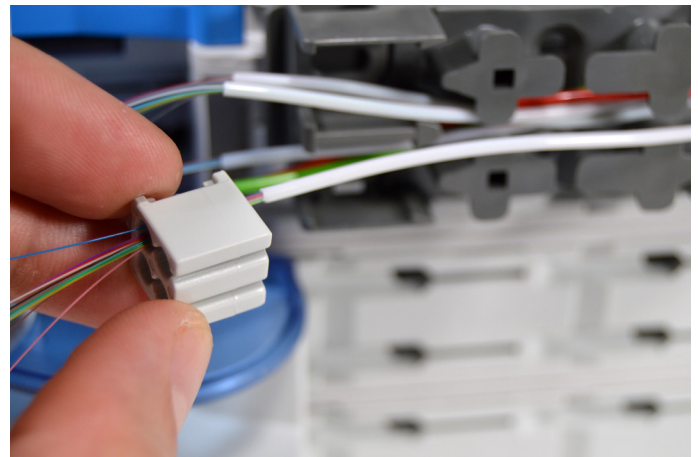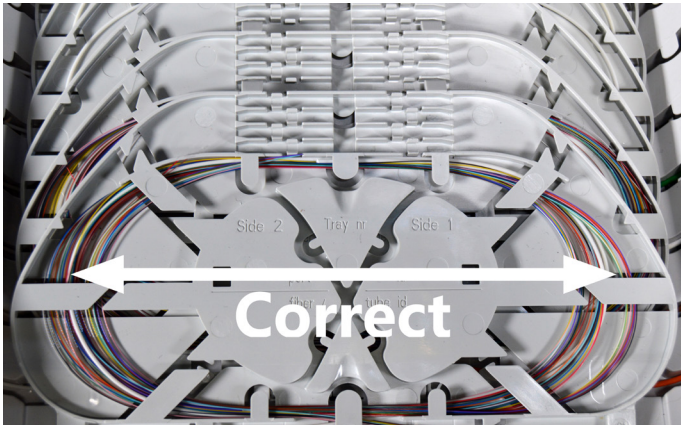

6.2.1.   Overview

6.2.2.   Route the fiber throughout the groove plate to the dedicated splice trays.

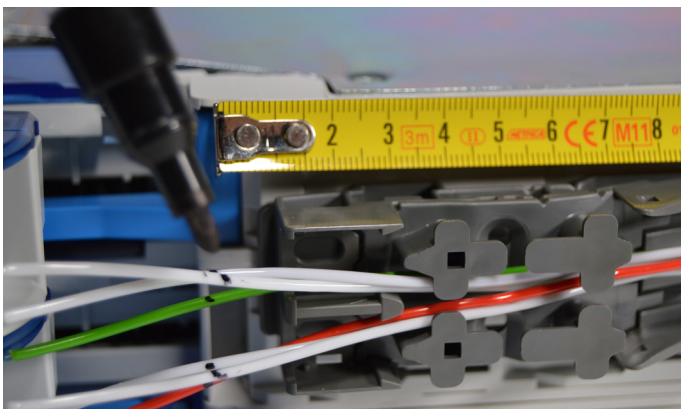7.1.2.   Strip the loose tubes at the marked point and clean the fibers.

6.12.   Pay attention to store the fiber correctly. A properly stored fiber doesn't touch the bend radius limiter on inner or outer side and can move freely.

7.   Routing and termination on FACT-xExHP (splice/patch element)

7.1.   Termination

7.1.3.   Slide on the tube holder.

7.1.1.   Slide on the CTU bracket. Mark the loose tubes at 1 cm from the CTU bracket.
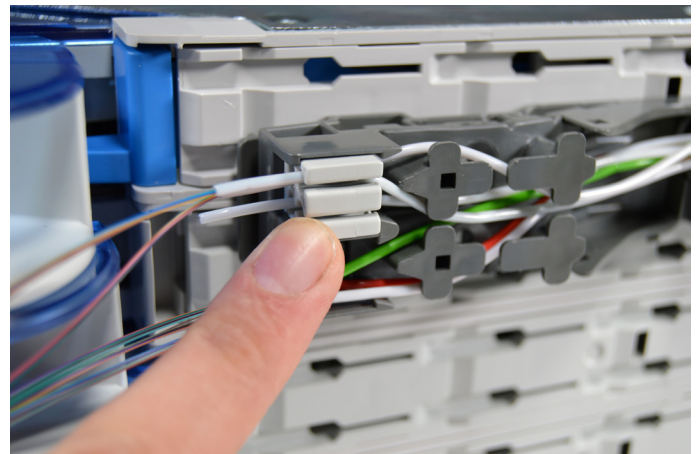
7.1.4.   Slide and click the tube holder into the CTU bracket.
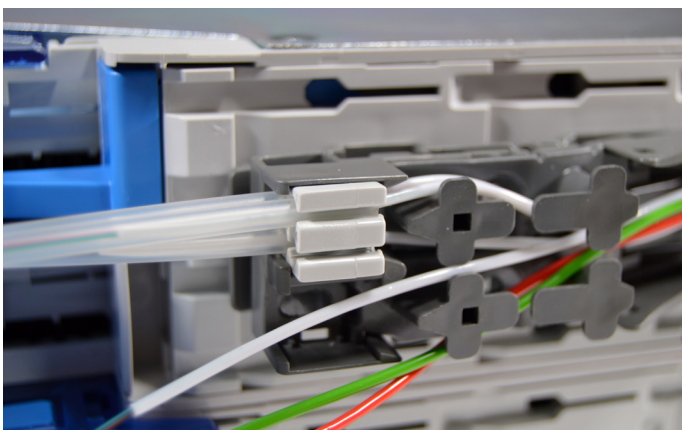
7.1.5. Feed the fibers into the -correct length-transportation tubes.

7.1.6. Slide the transportation tubes in the tube holder. Make sure that the transportation tubes are pushed in,until the end. Make sure you route these as shown.

7.1.7. Repeat previous 4 steps for the second tube holder.

7.2. Inside routing and termination

7.2.1. Remove the transparent cover of the splice island.

Remove the velcro, if needed.
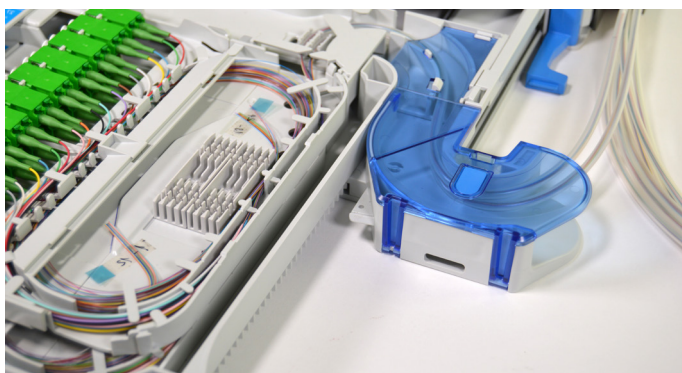

7.2.2. Open the lids (front and back).
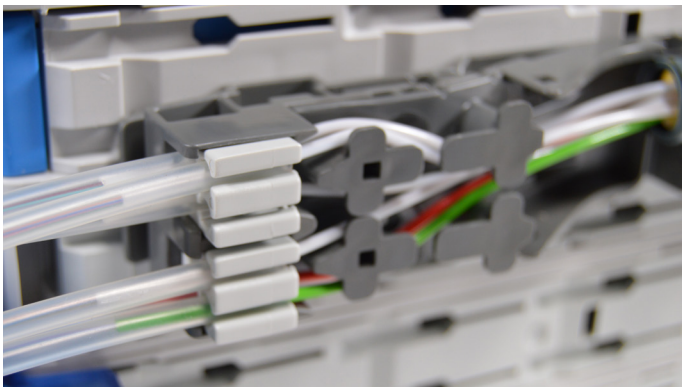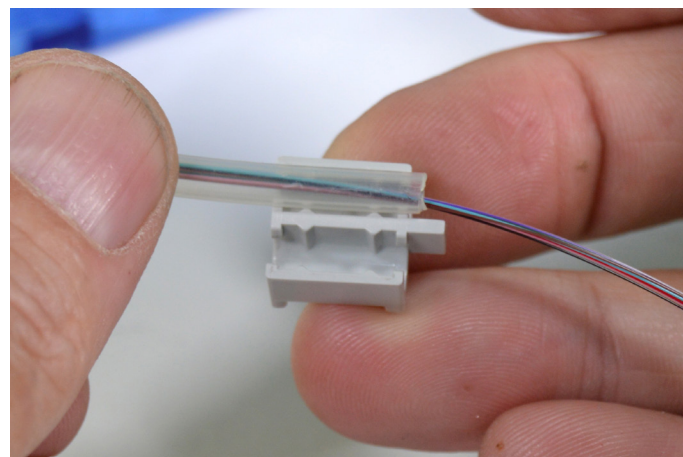
7.2.3. Place the first tube in the right position of the low tube holder (when splicing on the right side).
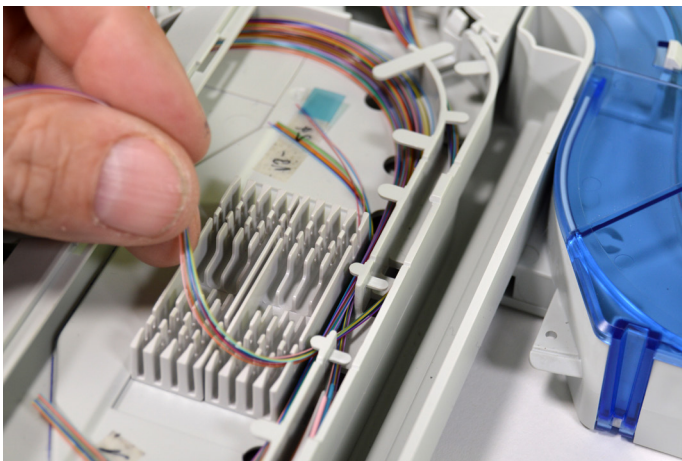
7.2.4. Mount the low tube holder in the tray. A second tube holder can be mounted, if needed.
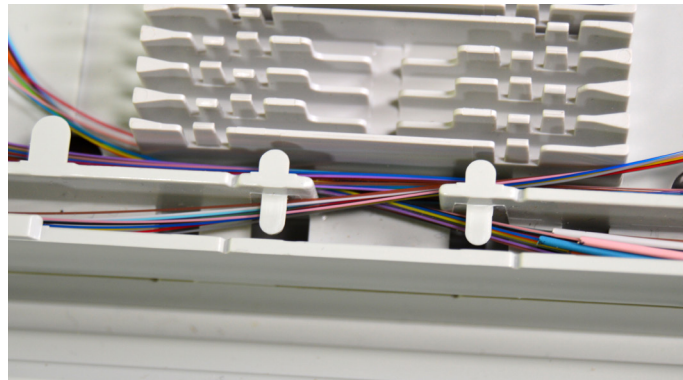

7.2.5. Place the additional tube, if needed.

7.2.5. Guide the tubes through the channels and close the lids.
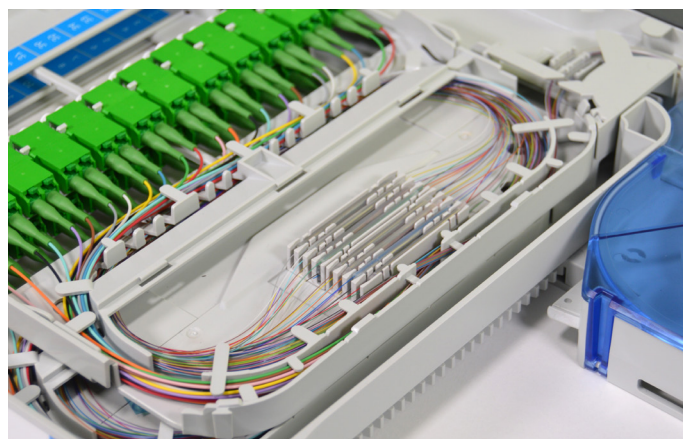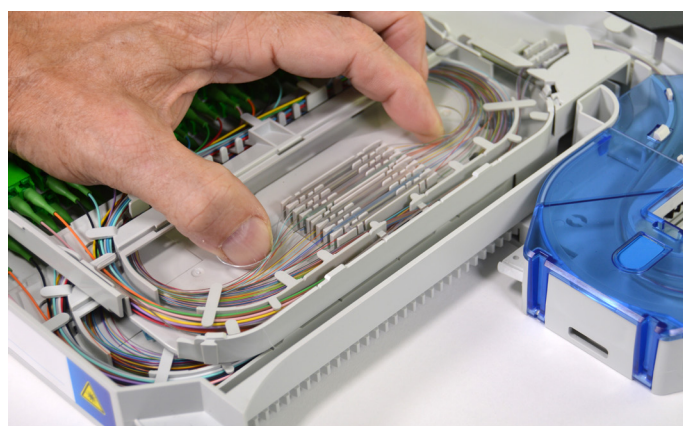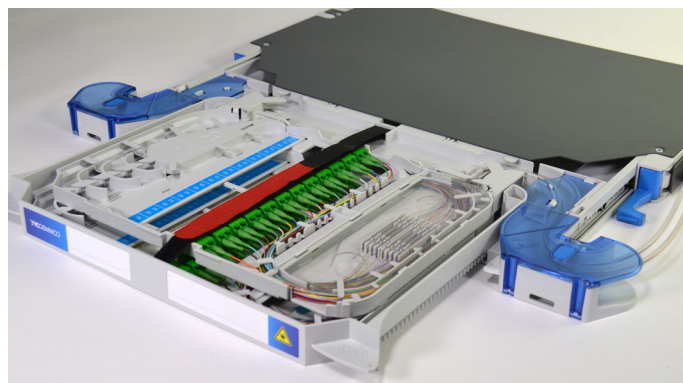

7.2.6. Guide the fibers into the splice island.

7.2.7. Make sure that the fibers follow the correct path (as shown).

7.2.8. Take the fibers out of the splice island, splice them and reroute them in the splice island.

7.2.9. Put the transparent cover back on the splice island.

7.2.10. Put the velcro back (if it was removed) and close the drawer later.

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