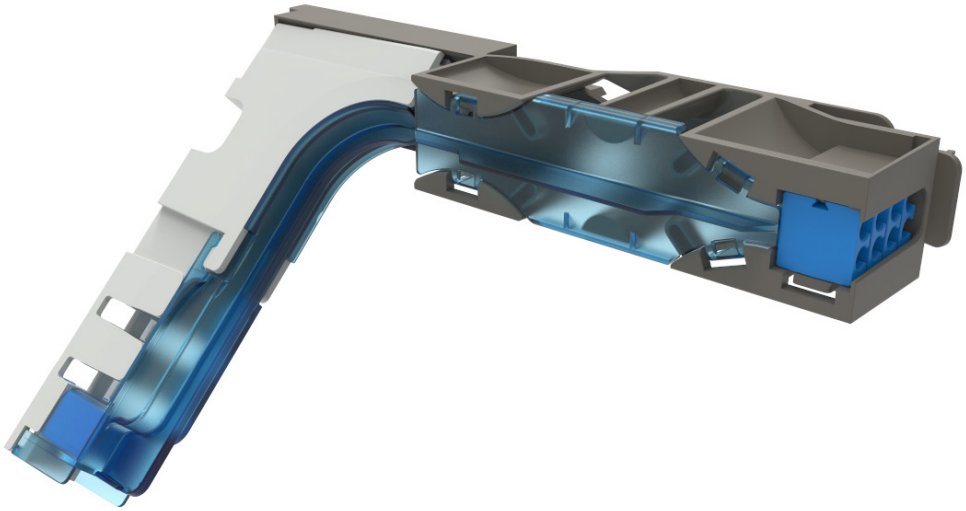


FAC T FRAME

INSTALLATION INSTRUCTION: Cable Termination Unit

COMMSCOPE®

FACT FRAME ANGLED CABLE TERMINATION UNIT

Contents

1. General product information

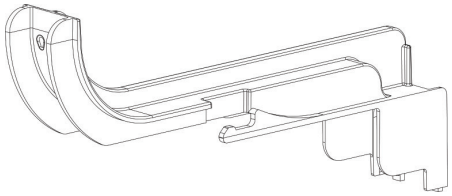
FACT Cable Termination Units (CTUs) enable quick and easy termination of a wide variety of cables on the FACT chassis. This allows the installer to prepare the cable termination on the CTU outside of the frame.

It is recommended to use the same element count for the CTU kit as for the selected FACT chassis.

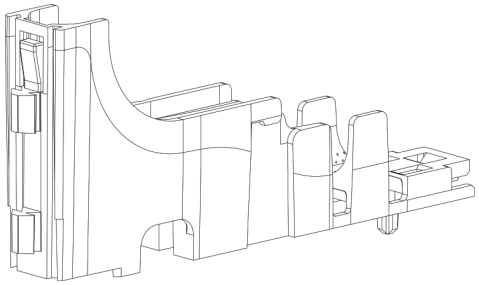
2. Warnings and caution

- 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.

3. Kit Content

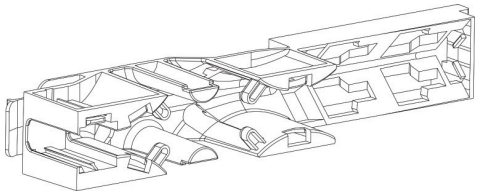


1x Cable Bracket Cover

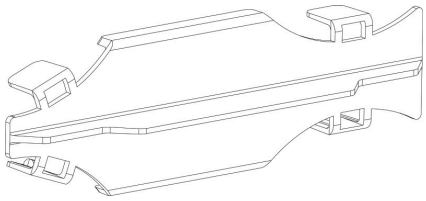


1x Cable Bracket

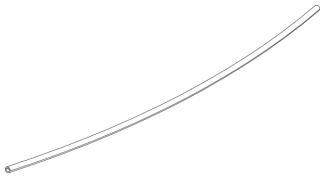
The quantity of these items should be multiplied by the numer of elements



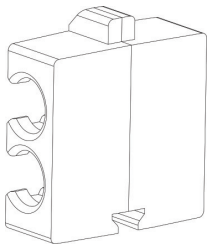
1x CTU Base



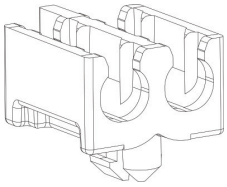
1x Fanout Cover



4x Transportation tube

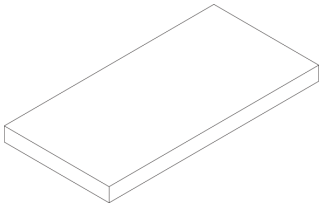


4x Tube Holder

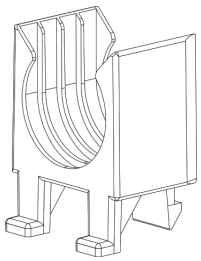


2x Tube Holder Tray

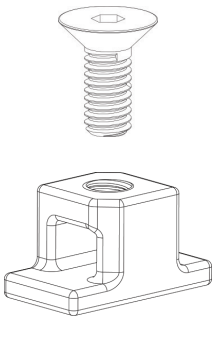
2x Cable Tie



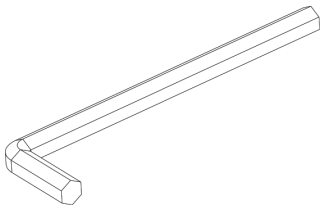
2x Foam



1x Flextube Holder

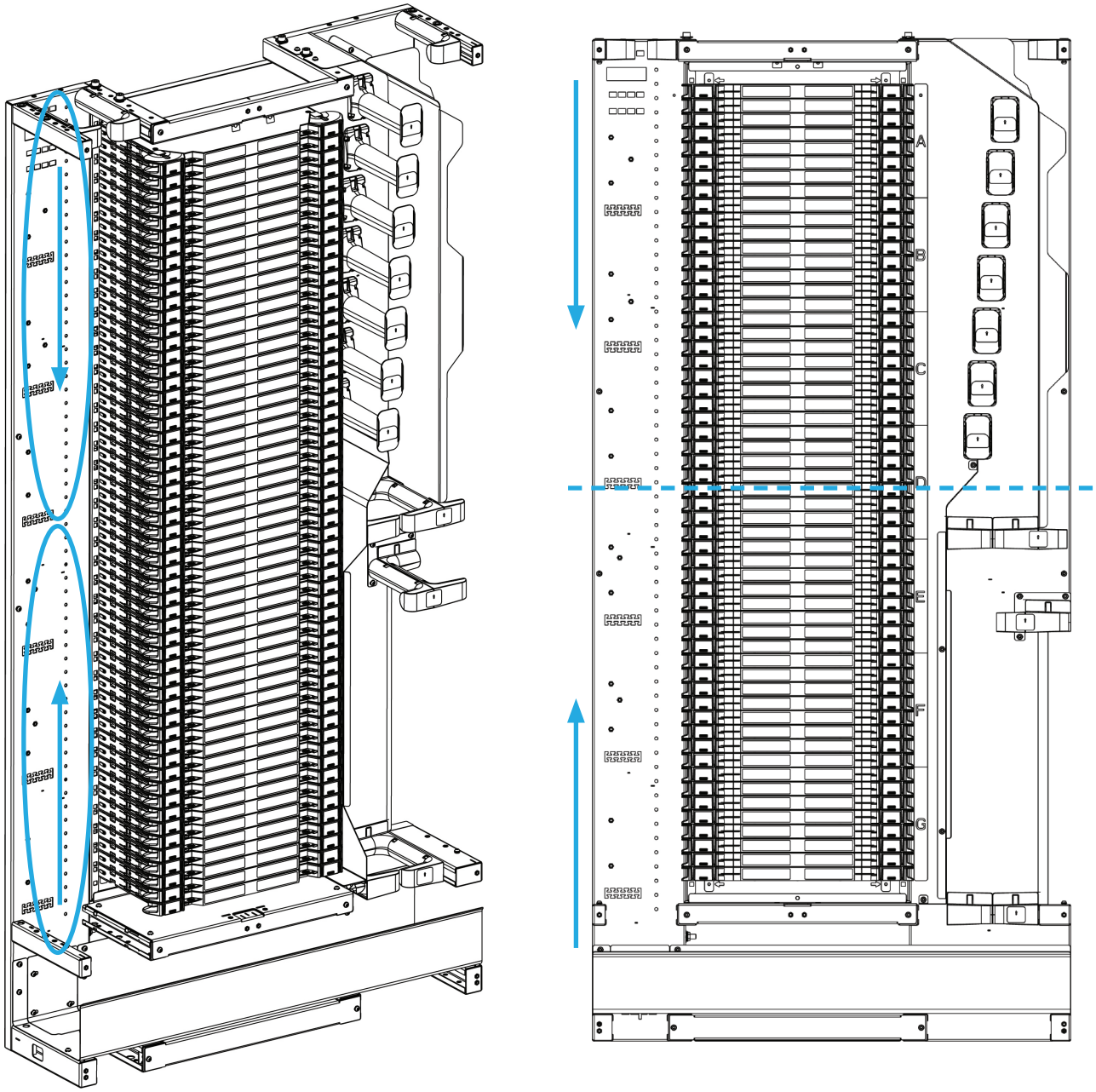


1x SM Holder + Bolt



1x Allen key

4. CTU Position Determination - Step 1

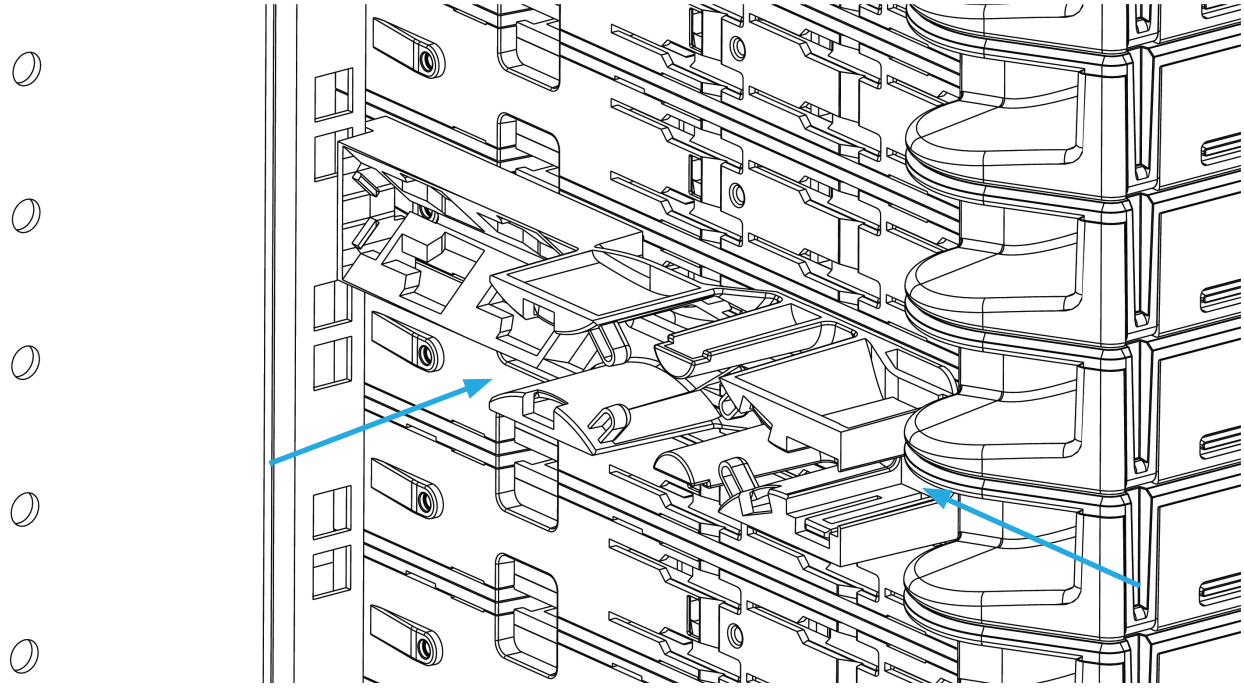


Step 1:

Determine where you want to install the cable termination unit. It is advised to use a bottom cable entry for the bottom 28 units and a top cable entry for the the top 28 units. The top 28 CTU's are angled (45°) upwards, the bottom 28 CTU's are angled (45°) downwards.

* This example shows a RHP Cross Connect.

5. Mounting CTU Base - Step 2

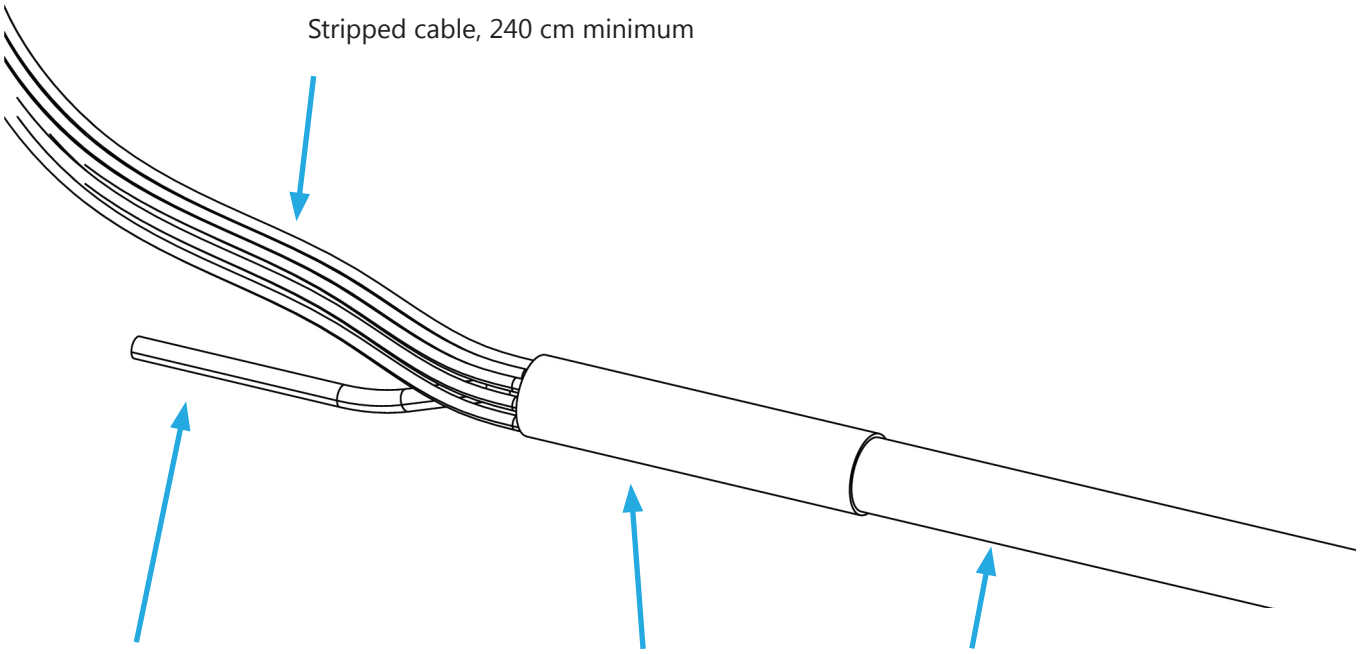


Step 2:

Mount the base of the CTU. Push the base in the openings on the side of the FACT element. Slide the base towards the backside until you hear a “click”.

If the configuration uses flextubes iso fanout cables, go directly to step 5*.

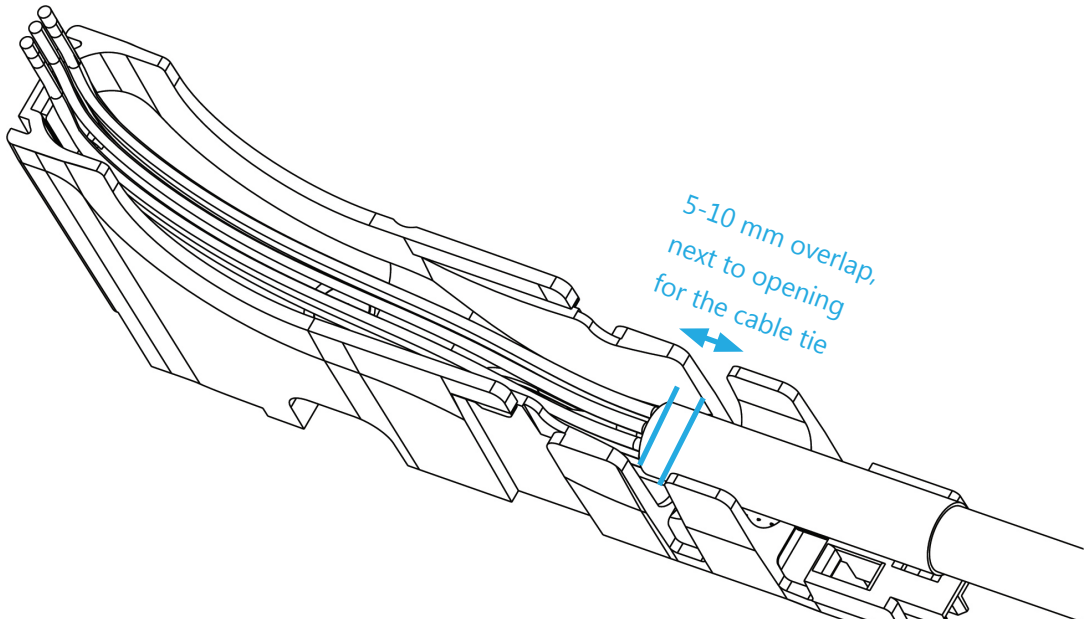
6. Cable Preparation - Step 3



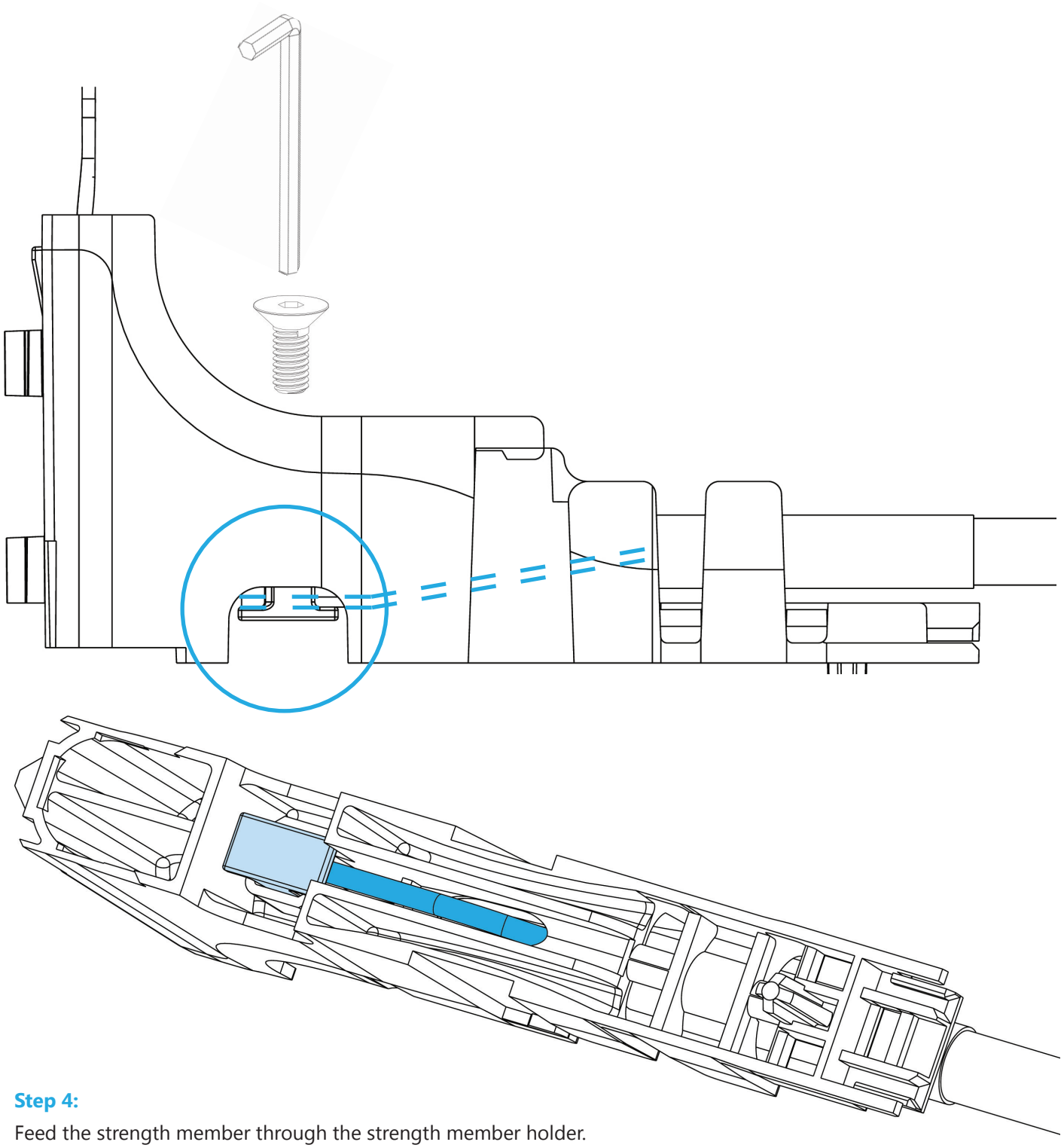
Step 3:

Strip the incoming cable, cut the strength member at 60-65 mm, apply the foam and make sure that you have a minimum of 240 cm of stripped cable left.

Loosen the bolt of the strength member holder and position the prepared cable in the cable bracket.



7. Strength Member Fixation - Step 4

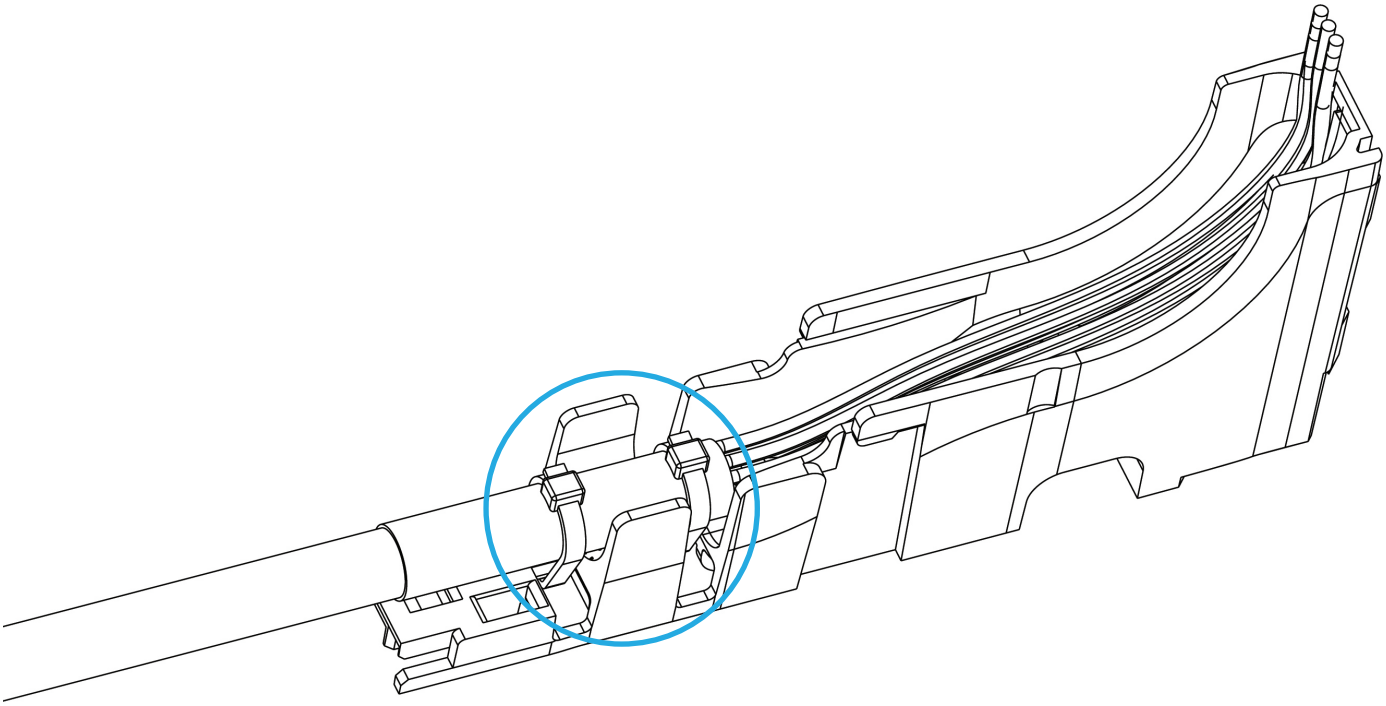


Step 4:

Feed the strength member through the strength member holder.

Retighten the bolt on the other side (the strength member should be secured now).

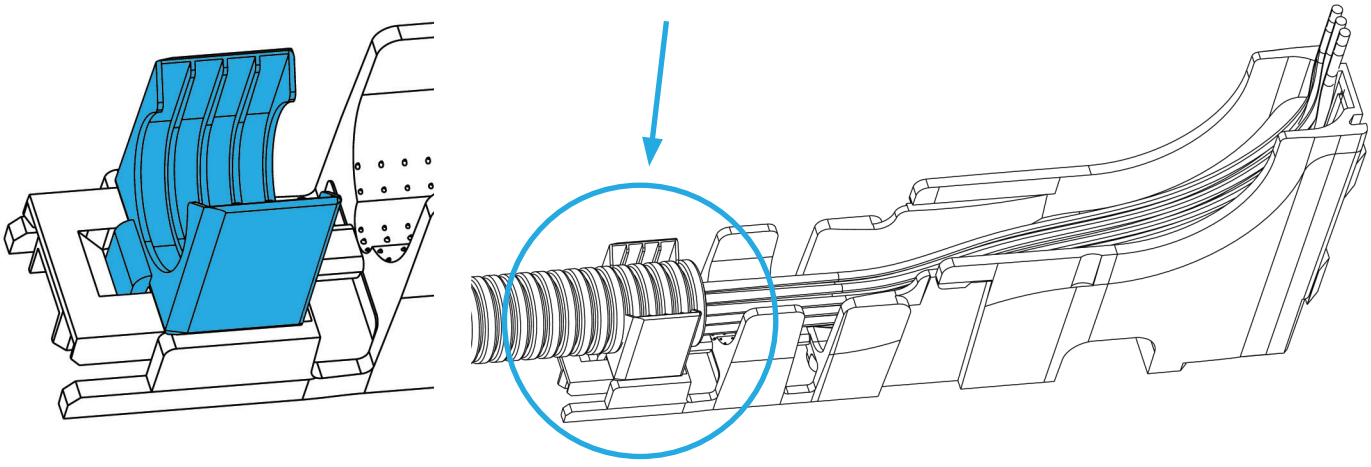
8. Cable / Flex Tube Fixation - Step 5



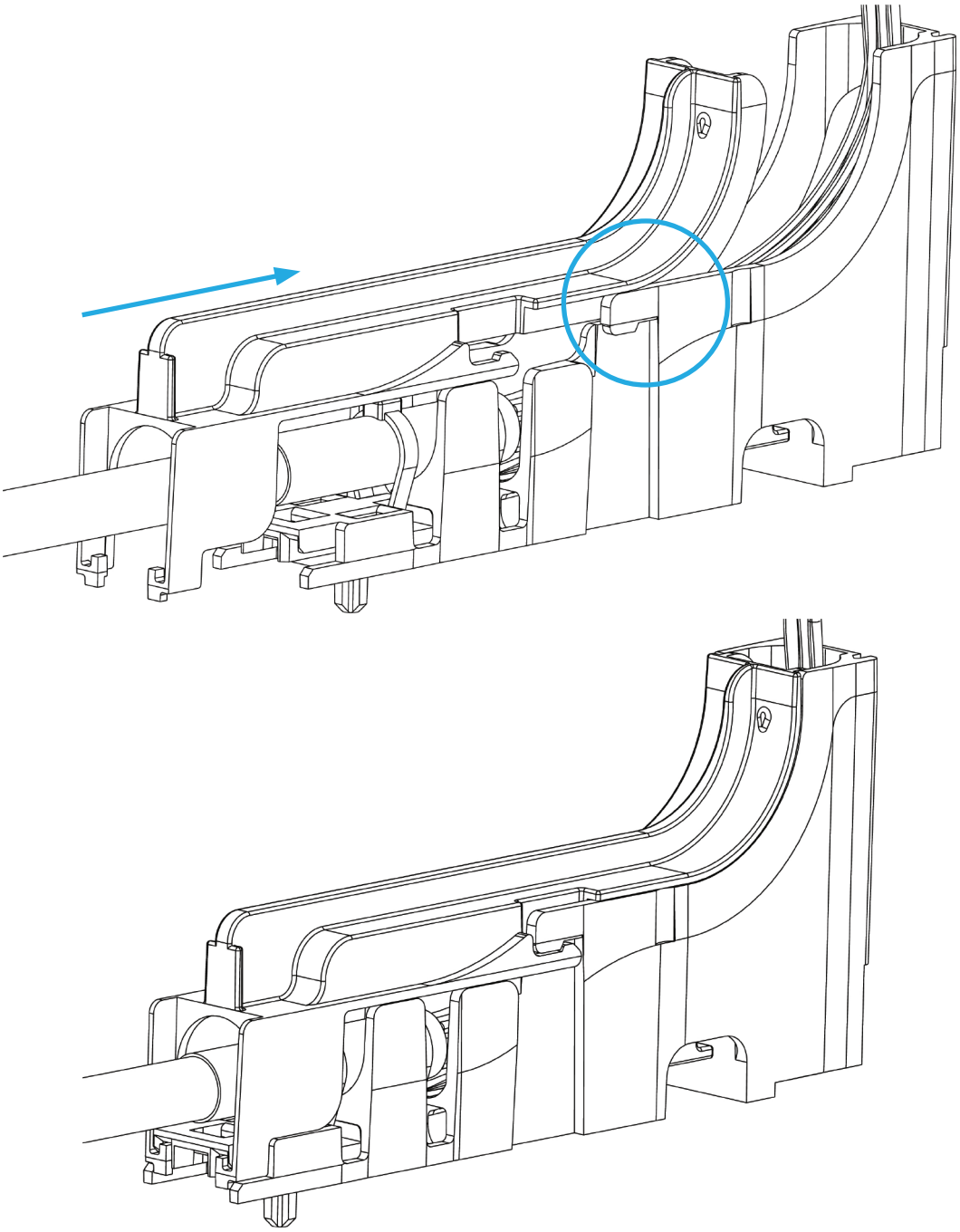
Step 5:

Apply 2 cable ties to secure the cable. The aramid can be wrapped around the cable (under the cable ties) if preferred (or when no strength member is present).

* If a flextube (iso incoming cable) is used, the flextube holder should be mounted on the cable bracket. The flextube is mounted in this holder (sliding it in from the top).



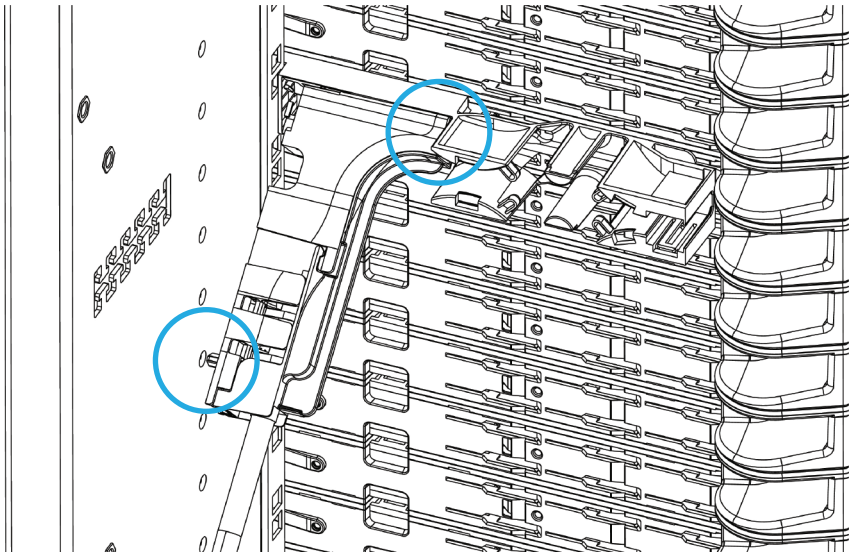
9. Cable Bracket Cover Installation - Step 6

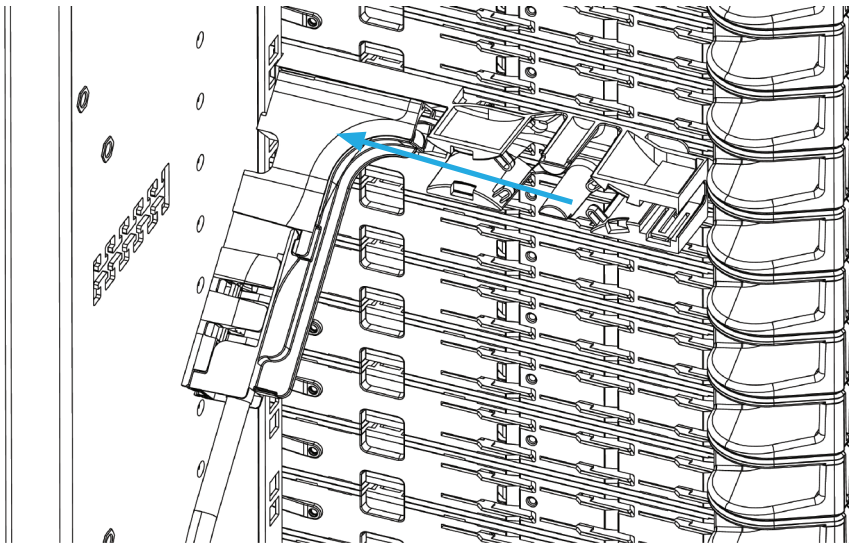


Step 6:

Align the cable bracket cover in the slot of the cable bracket. Slide it to the front until it “clicks”. Be carefull that no tubes or fibers are pinched between the cover and the bracket.

10. Cable Bracket On Base - Step 7





Step 7:

Align the cable bracket in the base at an angle of 45°. Push and slide the bracket towards the back of the base until it clicks. Make sure that the alignment pin (at the bottom of the cable bracket) is inserted in the hole (backside of the frame).

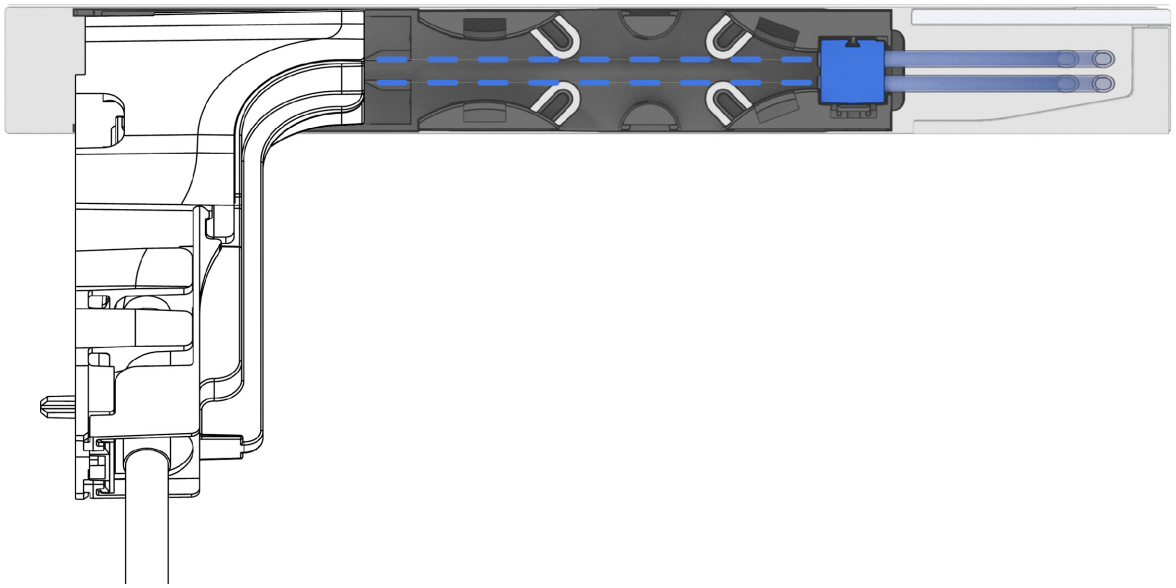
In this example, the incoming cable will be terminated at the bottom half (bottom 28 elements) of the frame. So here a 45° angle / down is used.

11. Routing Fibers Over Elements - Step 8

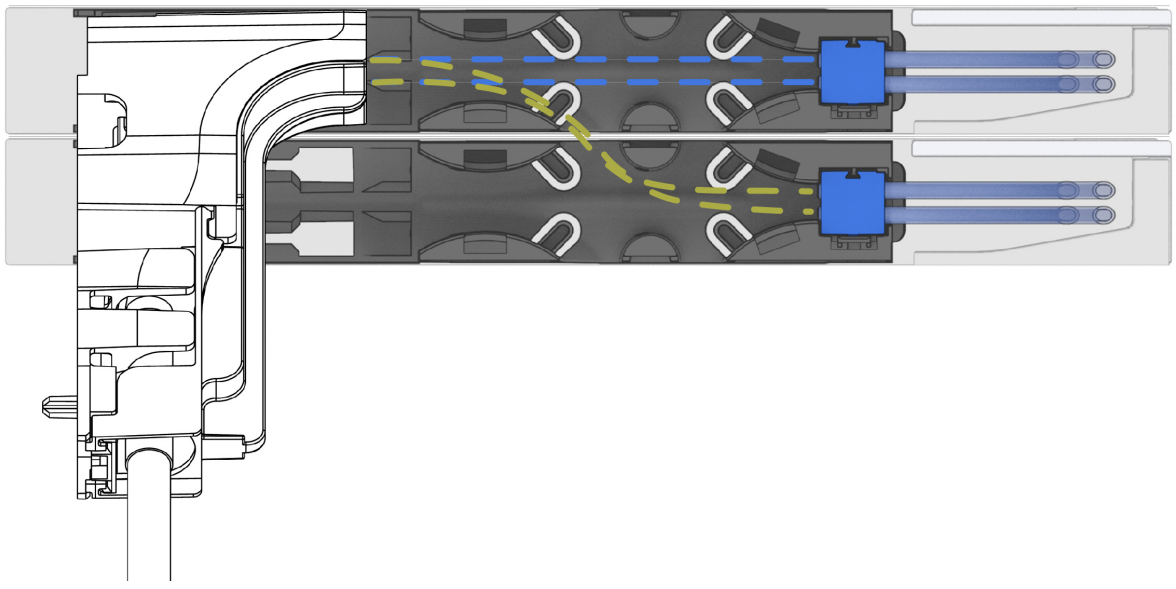
Step 8:

Depending on the configuration, the incoming cable(s) / flex tube(s) will be routed over the FACT elements. These illustrations show the recommended routing routes for the fibers over the FACT elements.

Routing over one element:

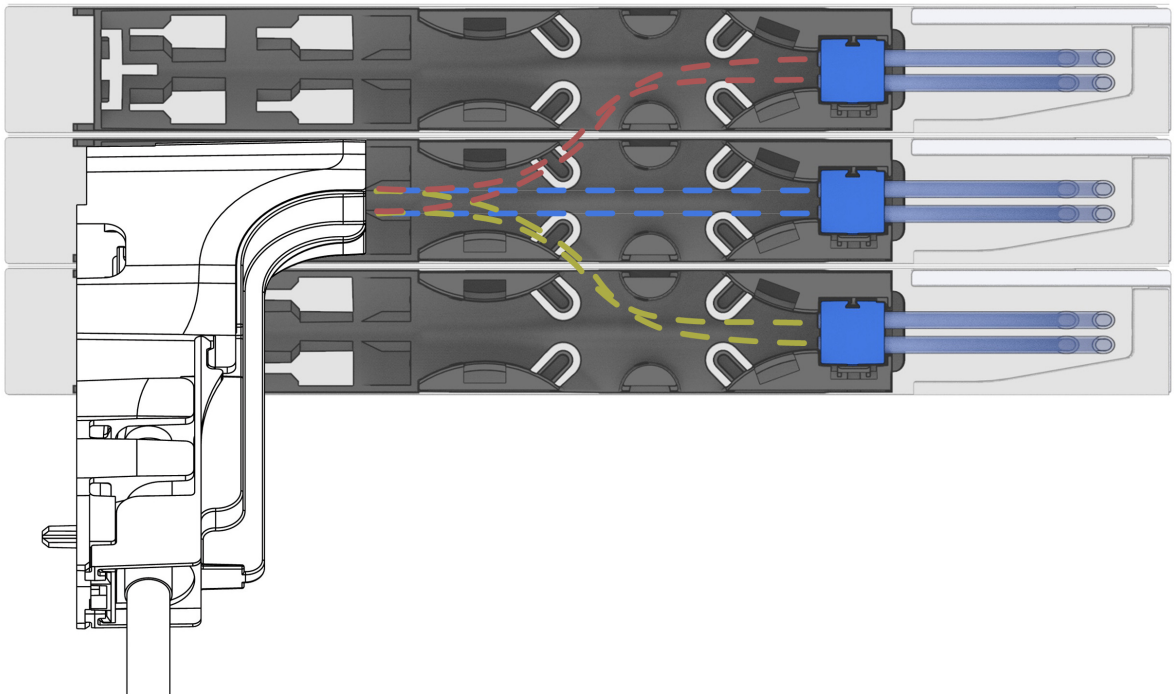


Routing over two elements:

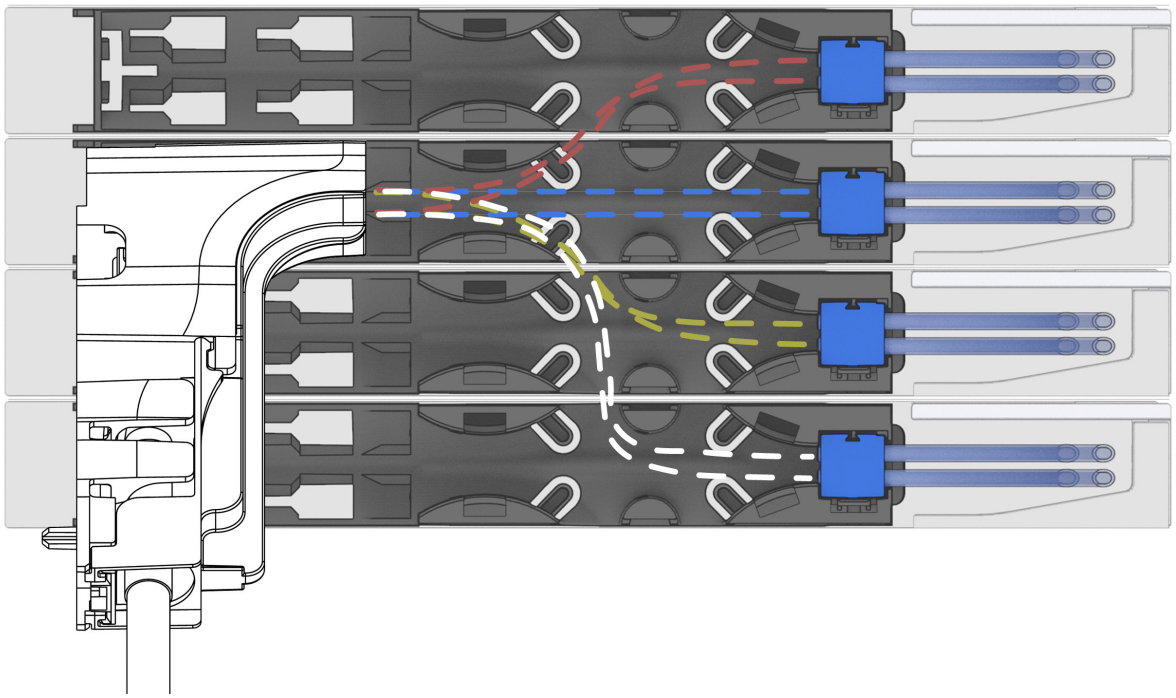


11. Routing Fibers Over Elements - Step 8

Routing over three elements:

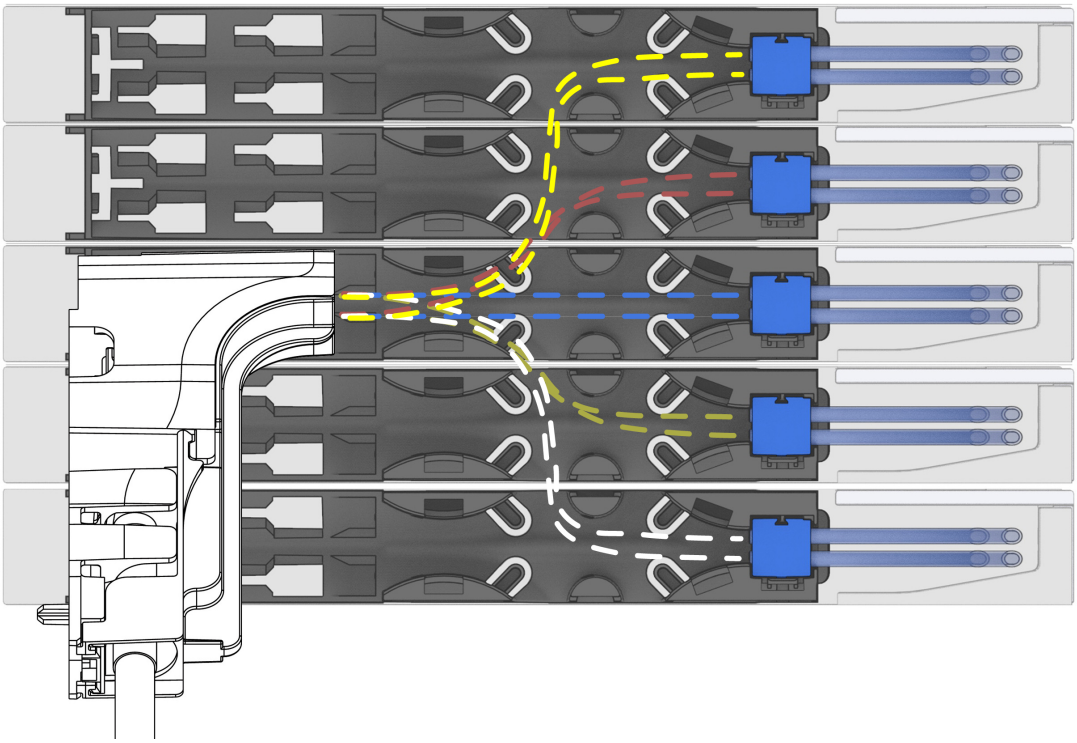


Routing over four elements:

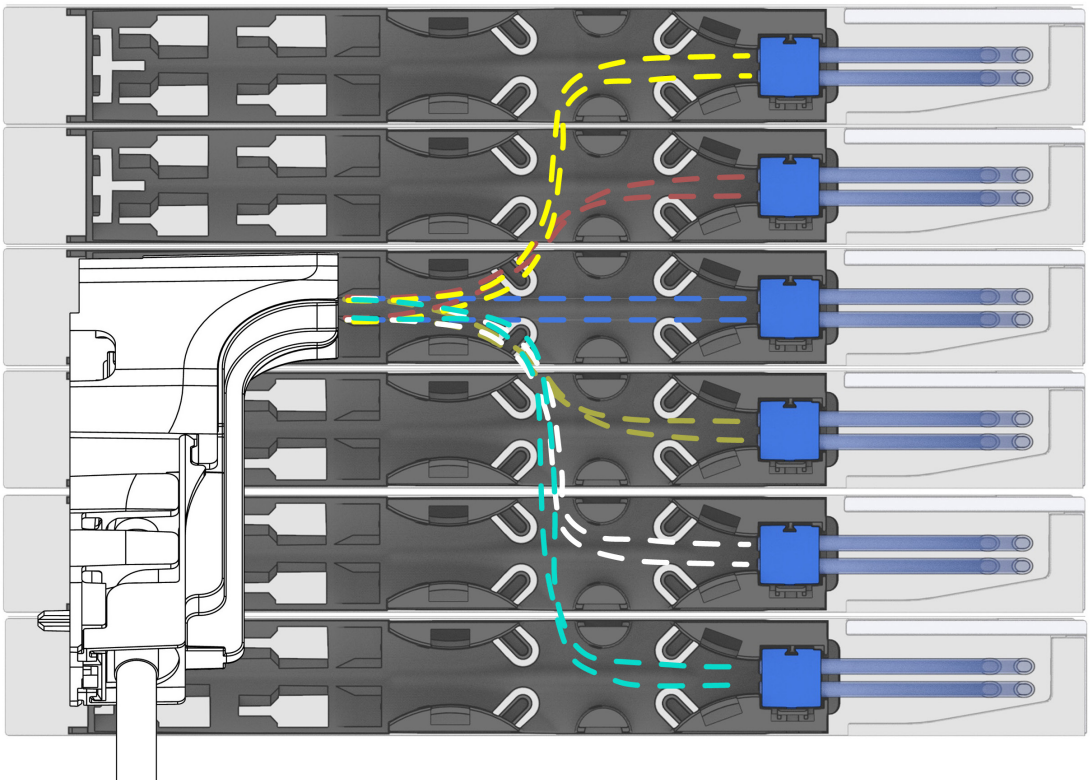


11. Routing Fibers Over Elements - Step 8

Routing over five elements:

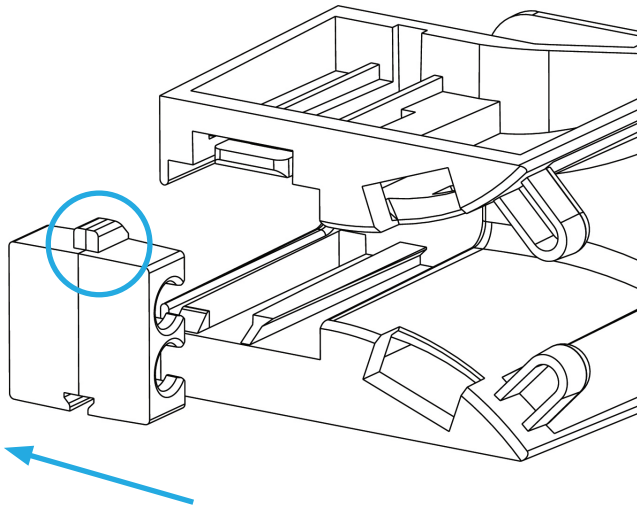


Routing over six elements:

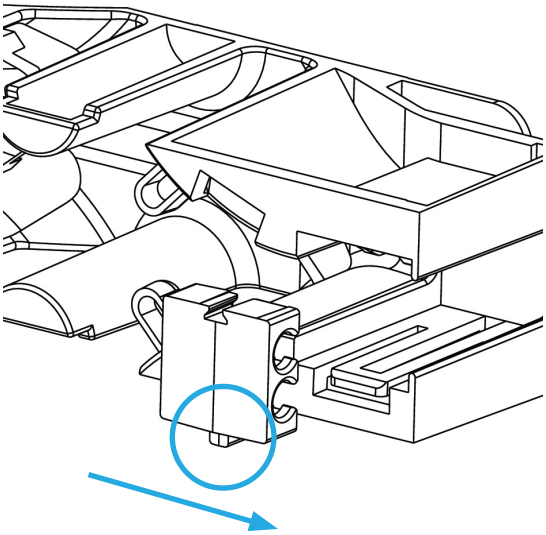


12. Feeding Fiber Through Transportation Tubes - Step 9

LHP configuration



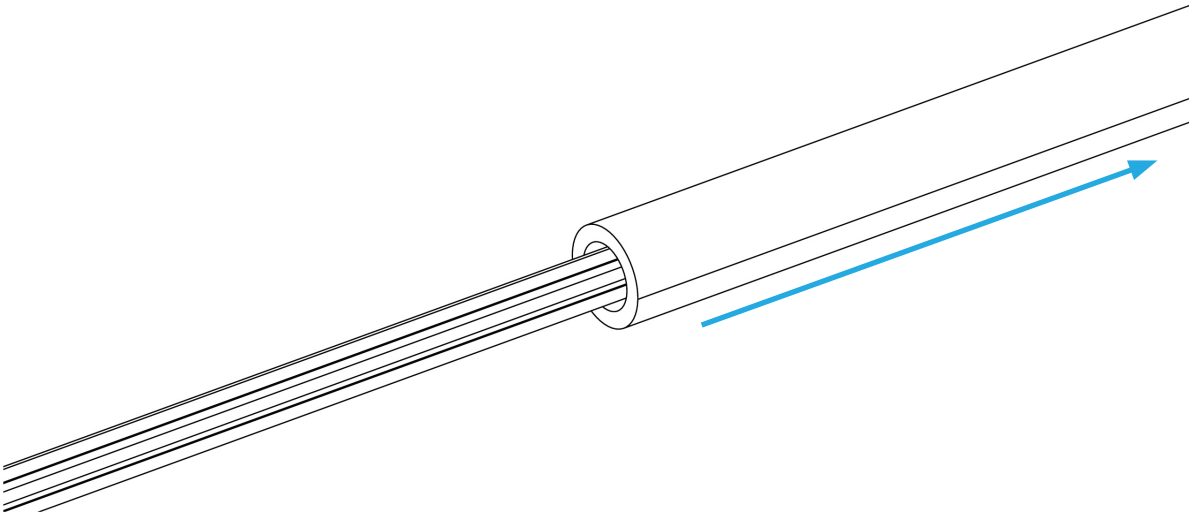
RHP configuration



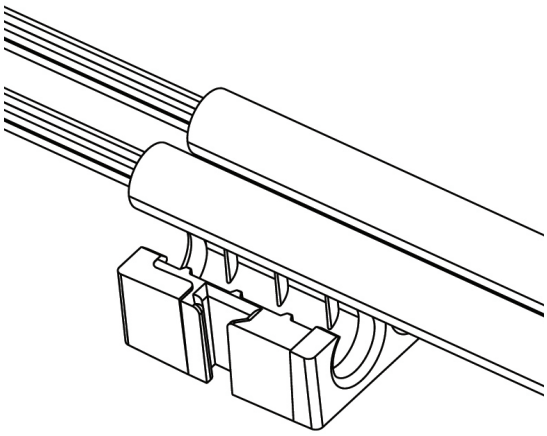
Step 9:

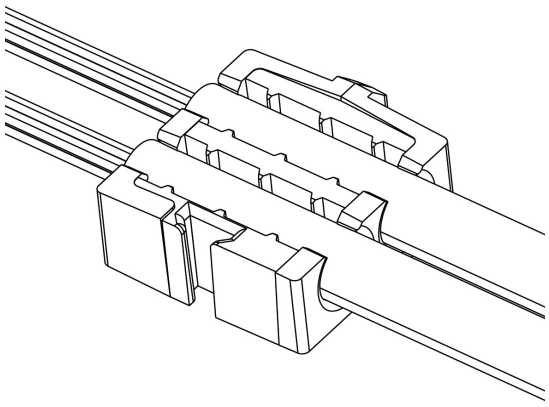
Before installing the transportation tubes, determine the configuration. The openings in the tube holders should face the inside of the base when installed. The layout of the tube holder is not symmetric. Look at the notch and dove tail to be sure it will be installed correct. The arrow indicates the direction of the transportation tubes, leaving the base.

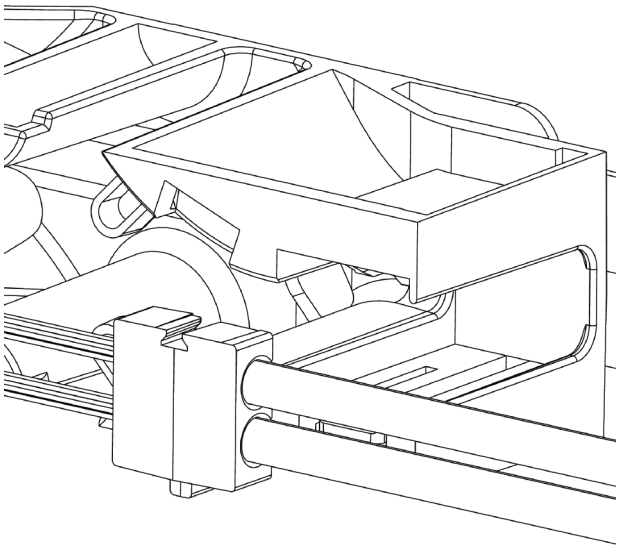
Start feeding the fibers through the transportation tube. The amount of fibers per transporation tube depends on the setup (SC, LC,...).

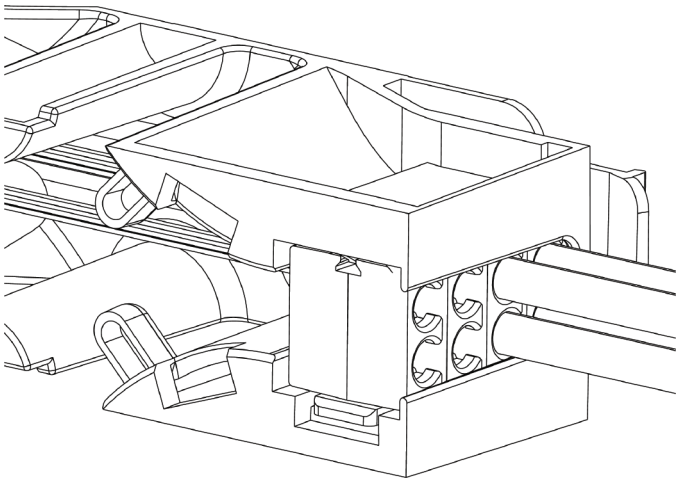


13. Installing Transportation Tubes - Step 10





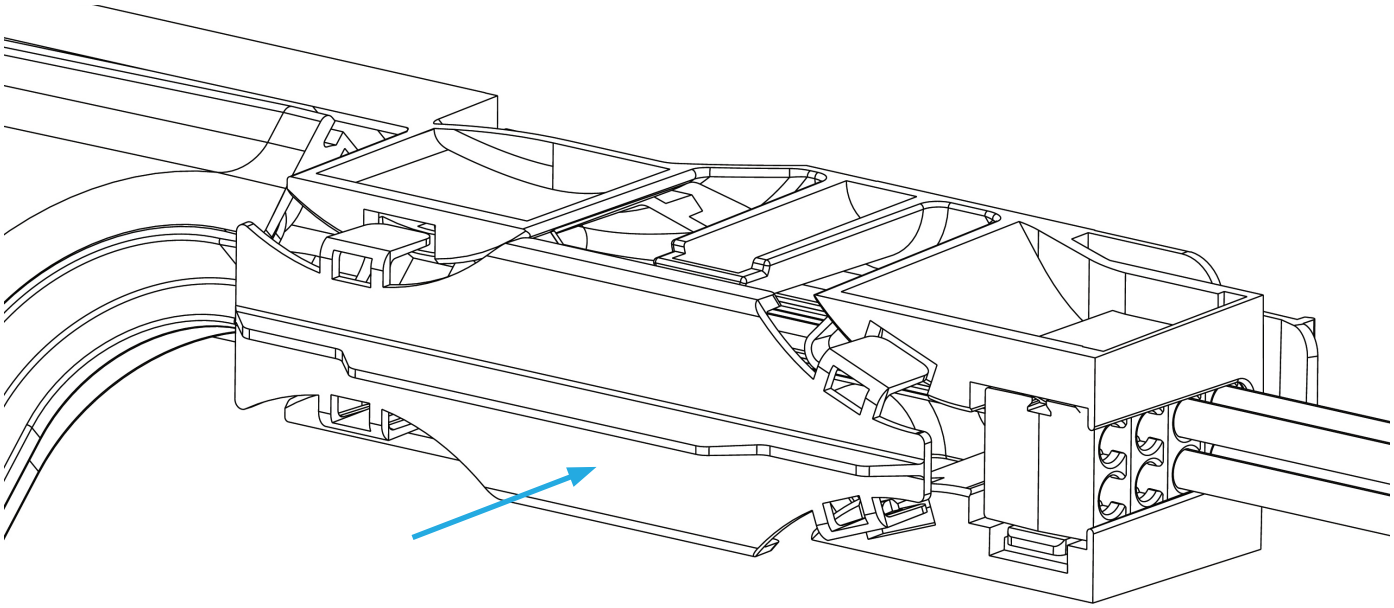


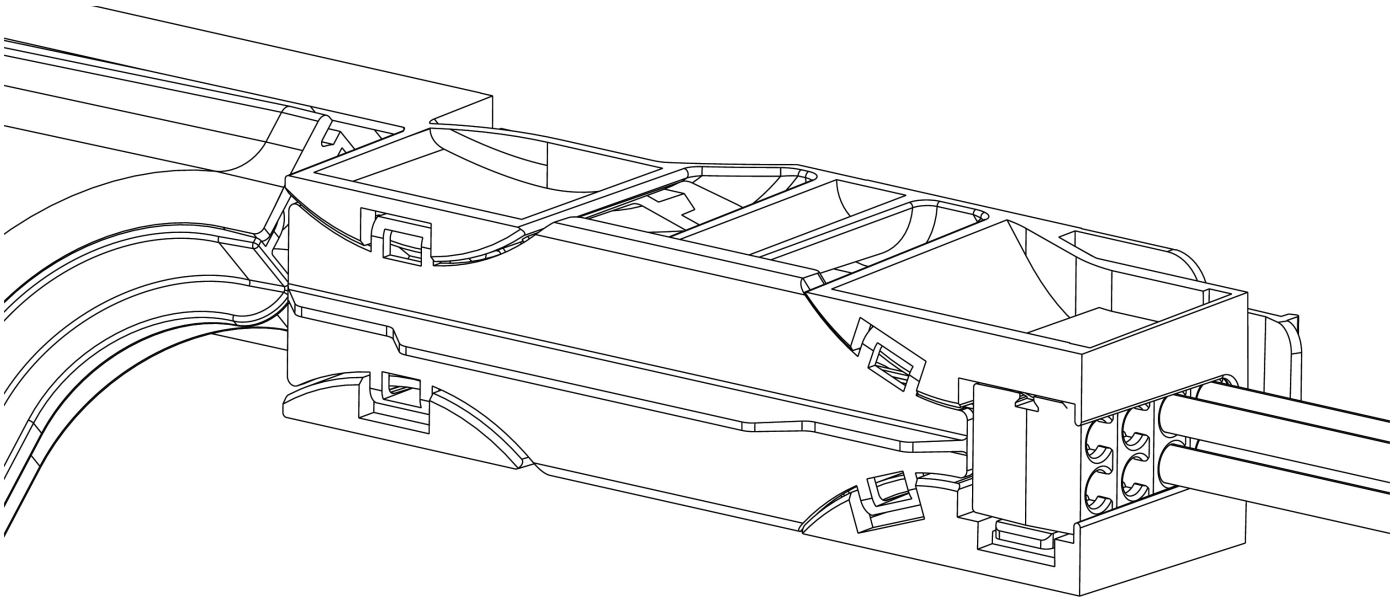


Step 10:

Push the transportation tubes in the tube holder as illustrated. Two transportation tubes per holder. The outer two tube holders will have no transportation tubes. Slide in the two tube holders with transportation tubes first, then slide in the tow empty tube holders.

14. Mounting Fanout Cover - Step 11

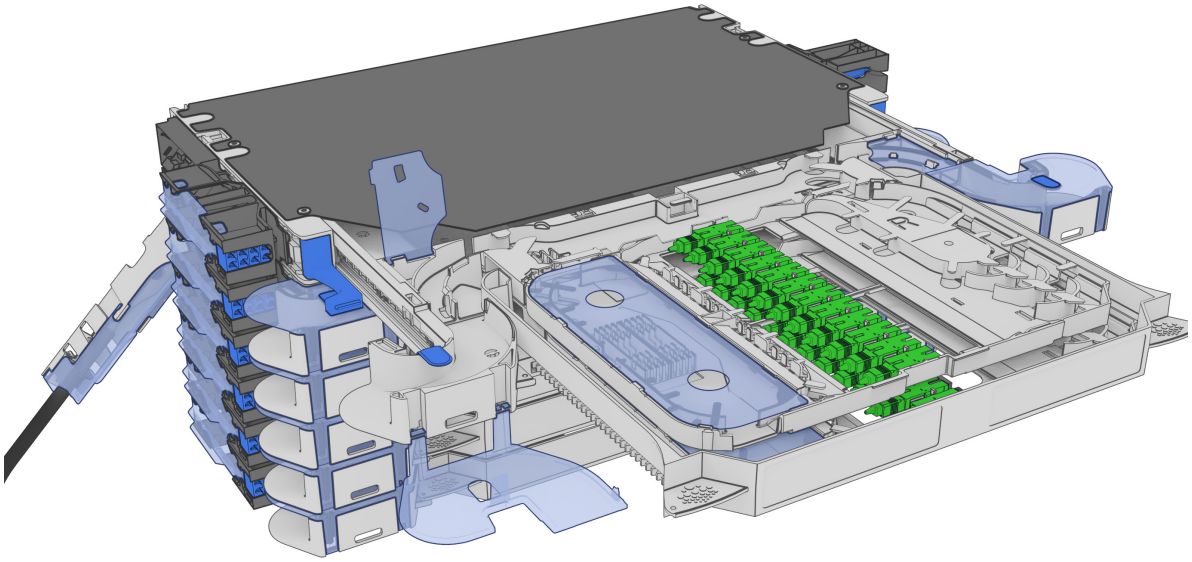


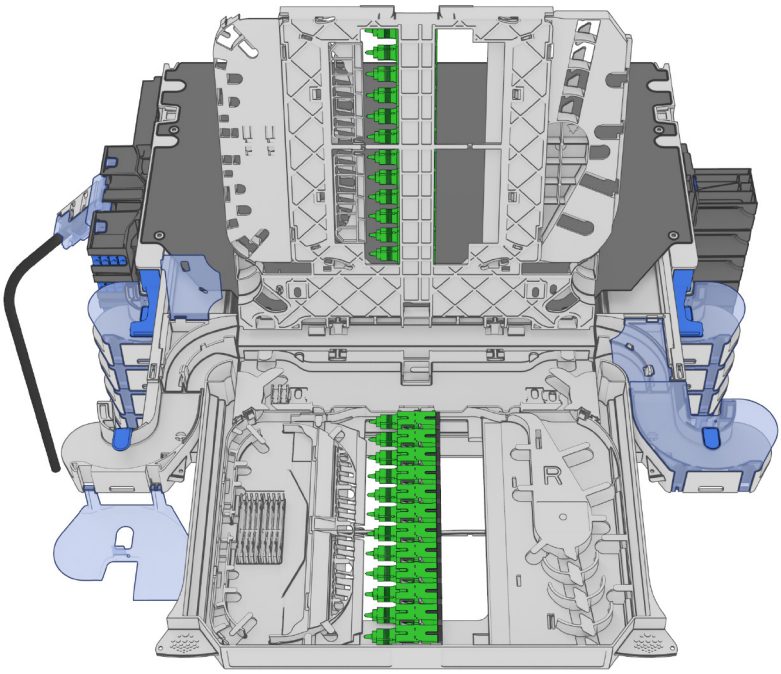


Step 11:

Mount the fanout cover(s) on the base(s) by sliding it on, until you hear a “click”.

15. Preparing FACT Element - Step 12



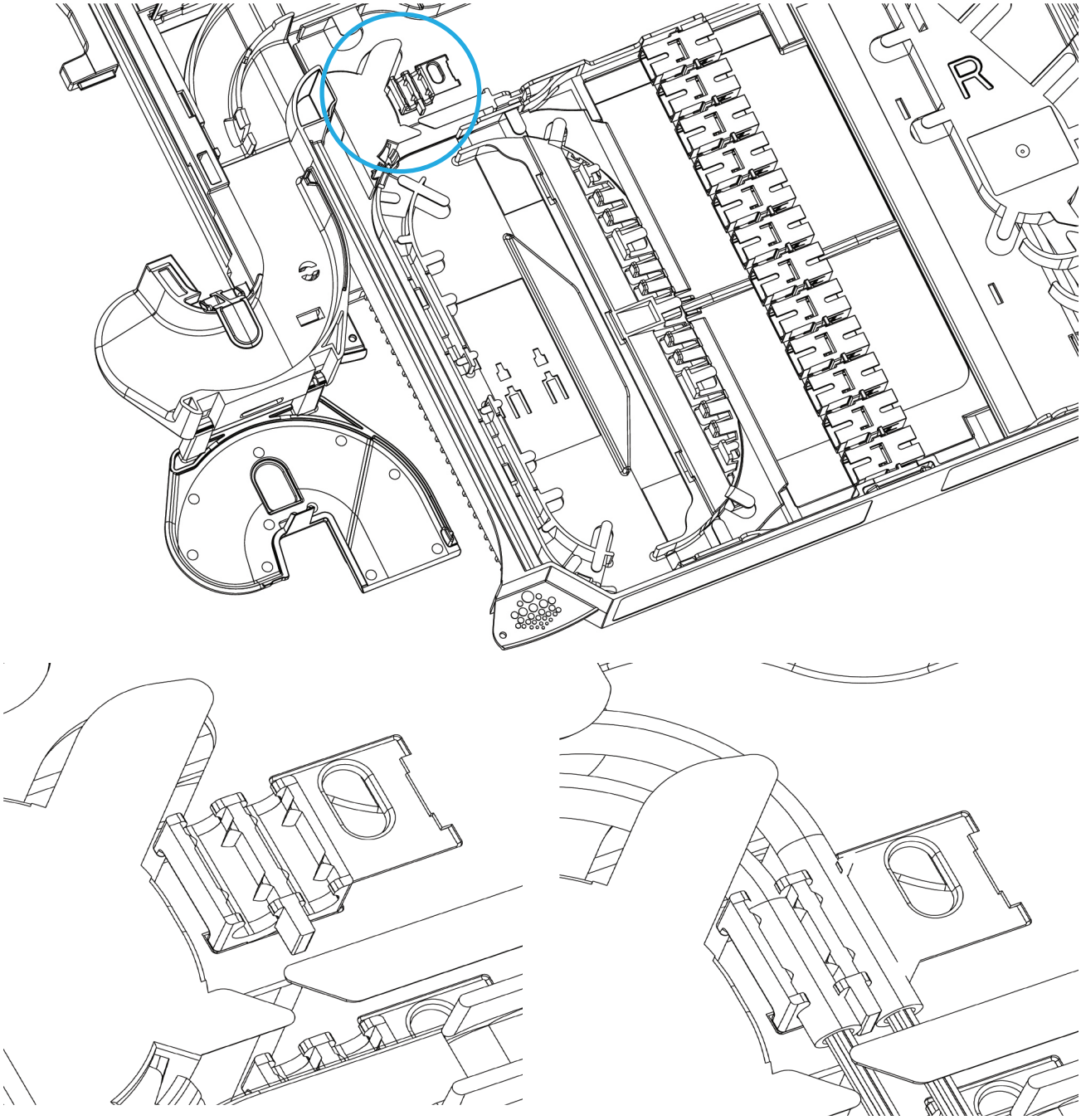


Step 12:

Slide out the preferred FACT element and open all covers (the retaining feature in the front bend control can be opened as well, if needed). Rotate the top tray to a 90° position (remove the cover of the splice island).

* A RHP SC FACT element is shown here.

16. Mounting Tray Tubeholder - Step 13

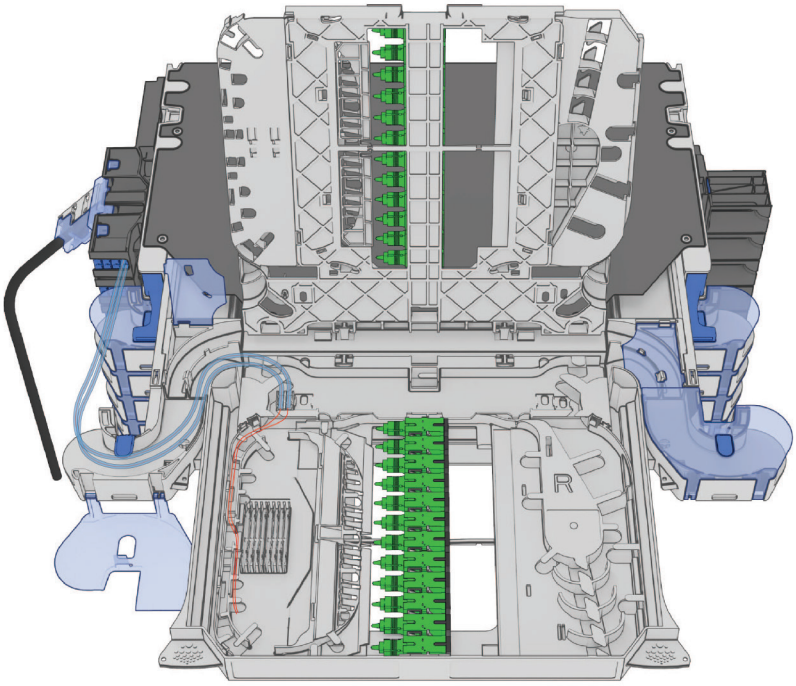


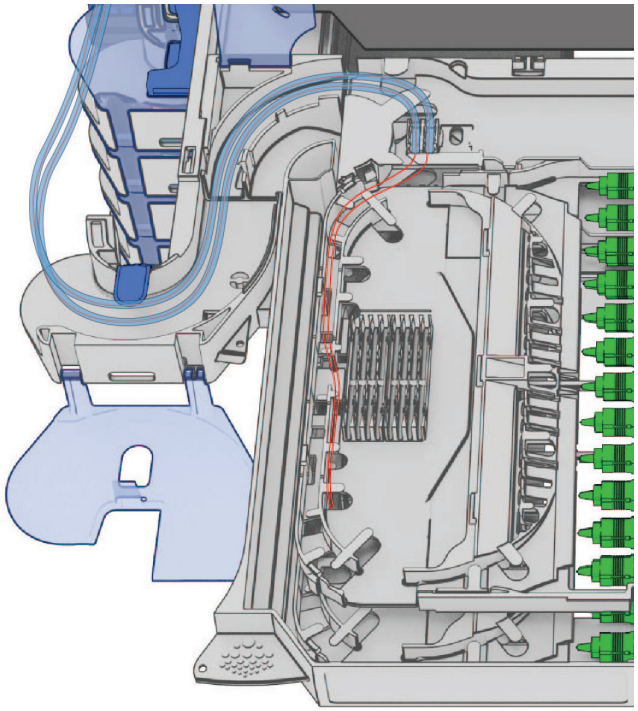
Step 13:

Mount the other type of tube holder by clicking it in from the top. Use the inner position (closest to the bend control) with the “extruding edge in the middle”, facing the front of the tray.

Route the transportation tubes in the tray, starting at the CTU. Push the transportation tubes in the tubeholder. The end of the transportation tubes should lay flush with the extruding edge.

17. Routing In Bottom Tray - Step 14

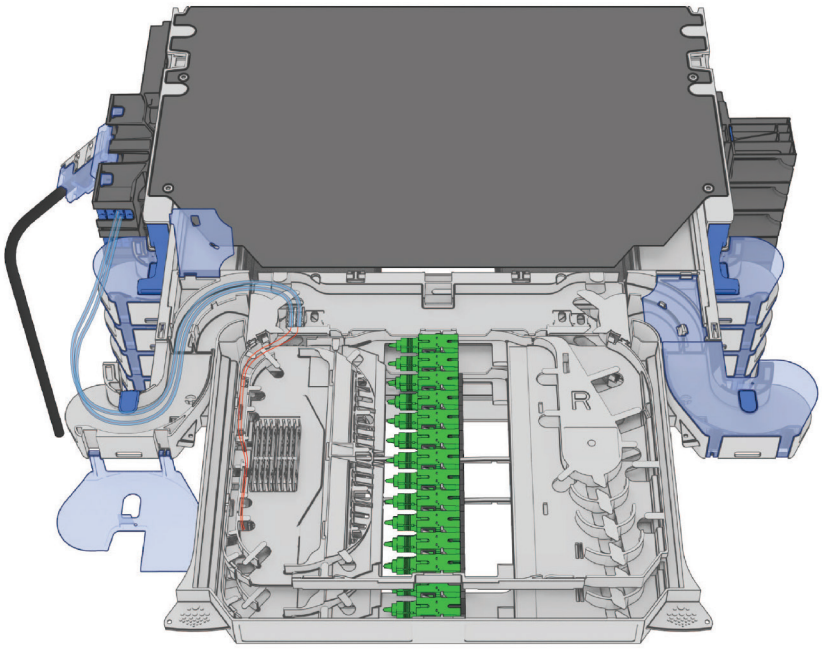


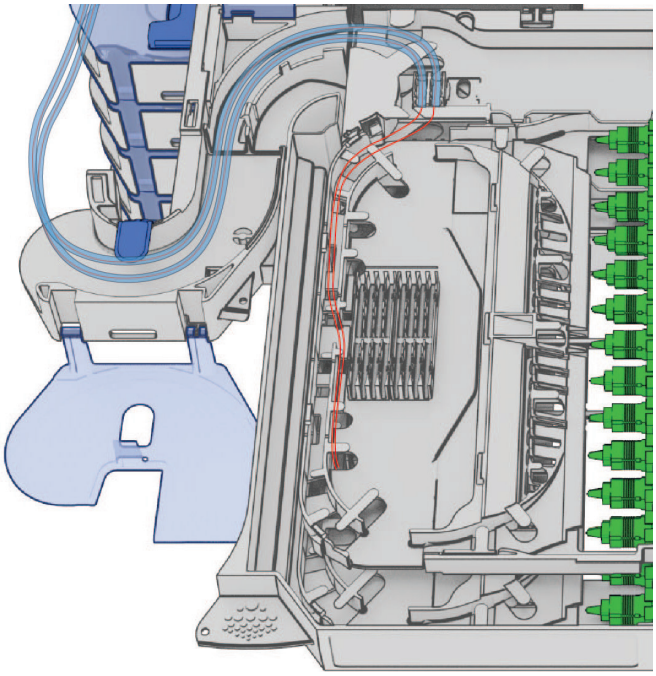


Step 14:

Route the fibers in the splice island and remount the cover on top of the splice island.

18. Routing In Top Tray - Step 15



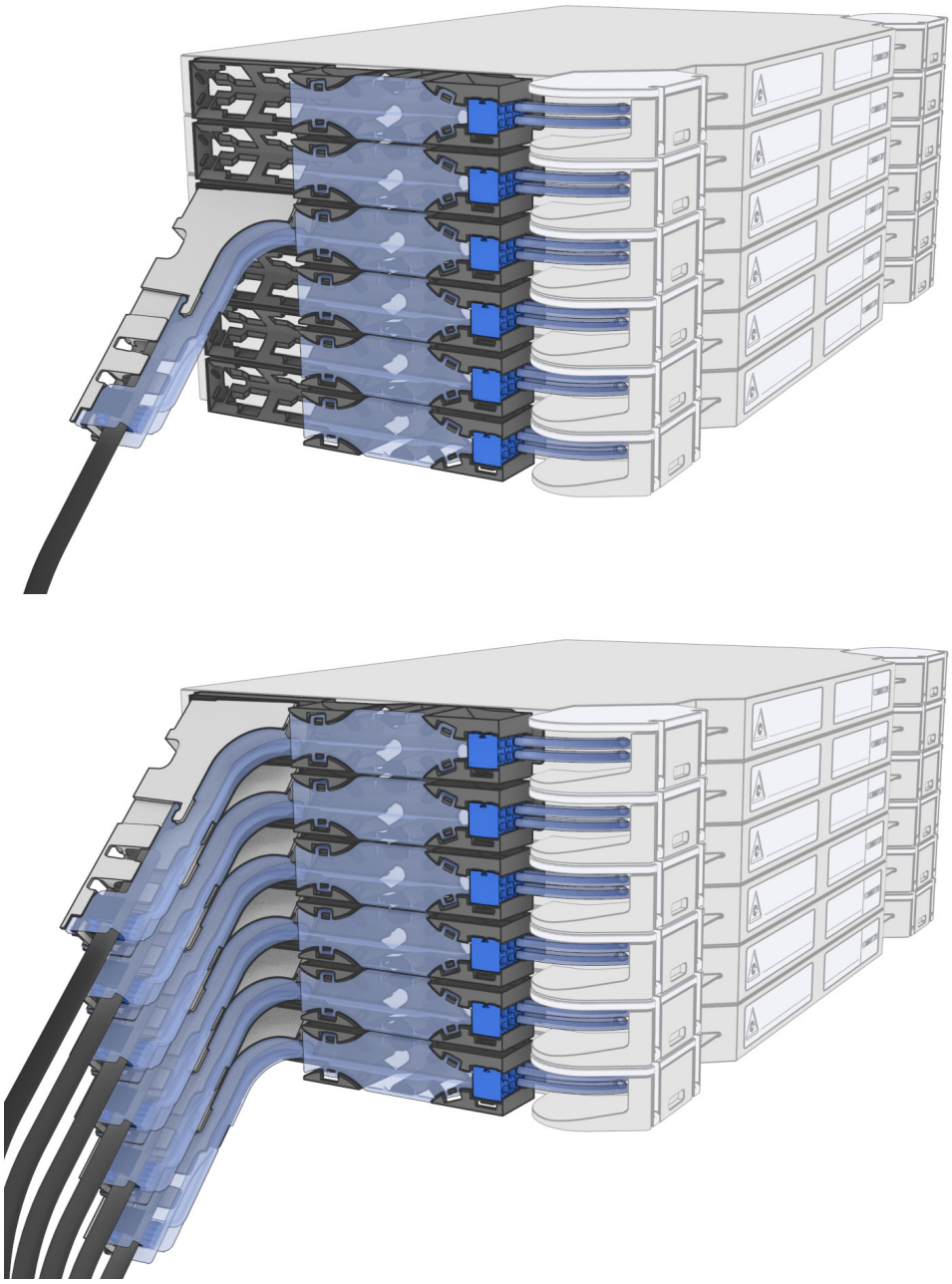


Step 15:

Close the top tray and repeat the previous steps to route the other tray in the element.

Close all covers and slide back the tray to it's original position.

19. Result - Step 16



Step 16:

This can be a possible end result. The top illustration shows a configuration with a fanout cable that is wired out over six FACT elements. The bottom illustration shows a configuration with six fanout cables that are wired out over six FACT elements.

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