

NOVUX™ Fiber Optic System CC 40 - Splice Application

About this manual

This manual describes the installation steps of the **splice application** of the Compact Closure 40 series. Installation steps in this document are limited to: drop cable installation, routing on and to the different trays, splicing on the different trays, storage on the hinged tray, splitter application.

Installation steps of the feeder cables are explained in manual TC-1520-IP: CC 40 Basic Instructions.

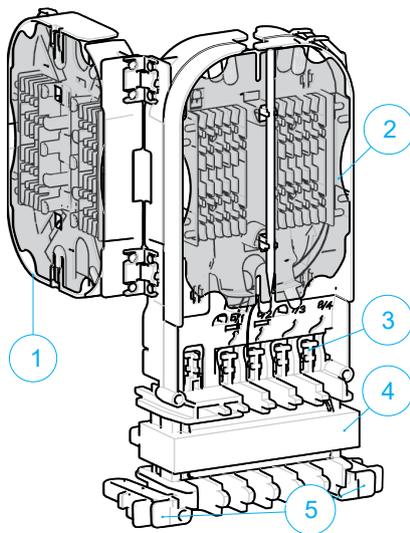
The document starts with providing an overview of the tools required to perform the installation. Also warnings and cautions are indicated, which should be observed before starting the product installation.

Images in this manual are for reference only and are subject to change.

General product information

	Quantity
Drop cable entry ports	up to 8
Splice capacity	up to 48 Smouv protectors (Smouv protectors length is up to 45 mm / 1.77 Inches)

Overview organizer



- 1 Hinged tray
- 2 Front tray
- 3 Drop cable strain relief T-shapes
- 4 Octopus™ gel seal
- 5 Locking features

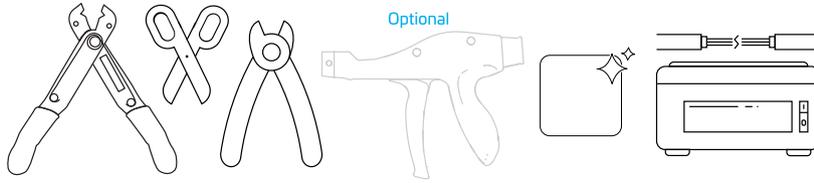
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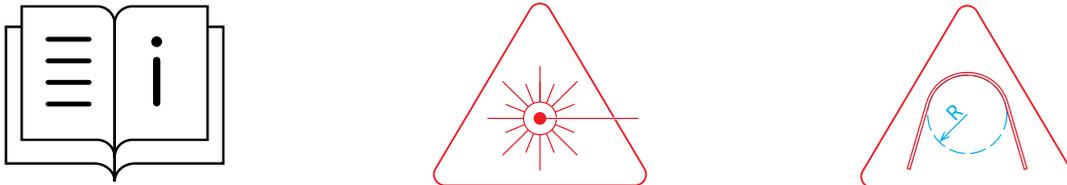
1 Abbreviations

CC: Compact Closure

2 Tools



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.

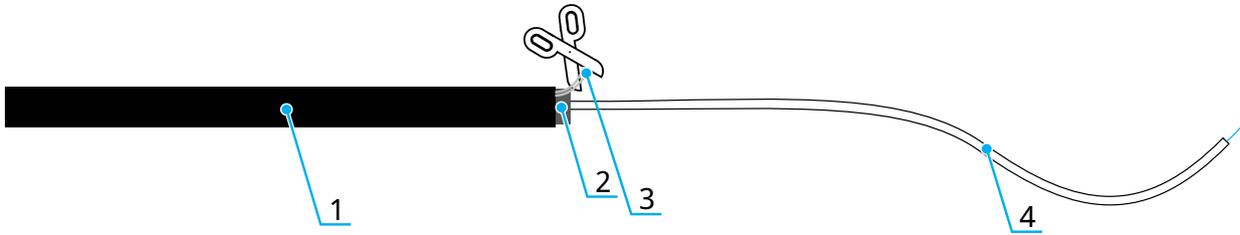
4 Install drop cable

 **Note:** The separate cable retention kit: TC-1529-IP (Cable retention: Mini dual cable) is suitable to be used to install the drop cable in the CC 40.

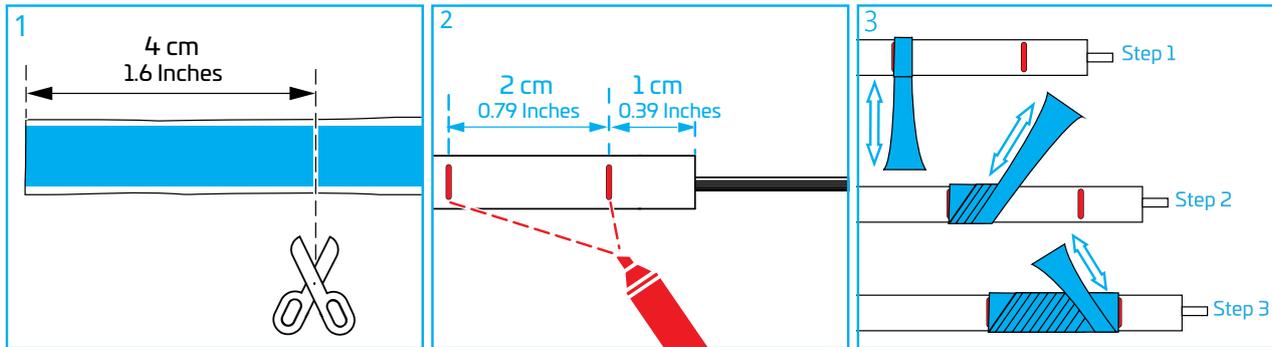
 **Important:** For this closure (CC 40), the jacket of the drop cable should be removed in all cases over a distance of **81 ±5 cm / 32 ±2 Inches**.

4.1 Using T-shapes integrated in organizer

4.1.1 Prepare drop cable



N.º	Description	Preparation
1	Jacket	Remove the jacket over a distance of 81 ± 5 cm / 32 ± 2 Inches.
2	Dual jacket (if present)	Strip the dual jacket to a length of $1 \pm 0,2$ cm / 0.39 ± 0.08 Inches. Remove the aramid yarn inside this second jacket.
3	Aramid yarn/ Rigid strength member	Remove the rigid strength member and/or aramid yarn if present.
4	Subunits	Clean the subunits, remove all grease.



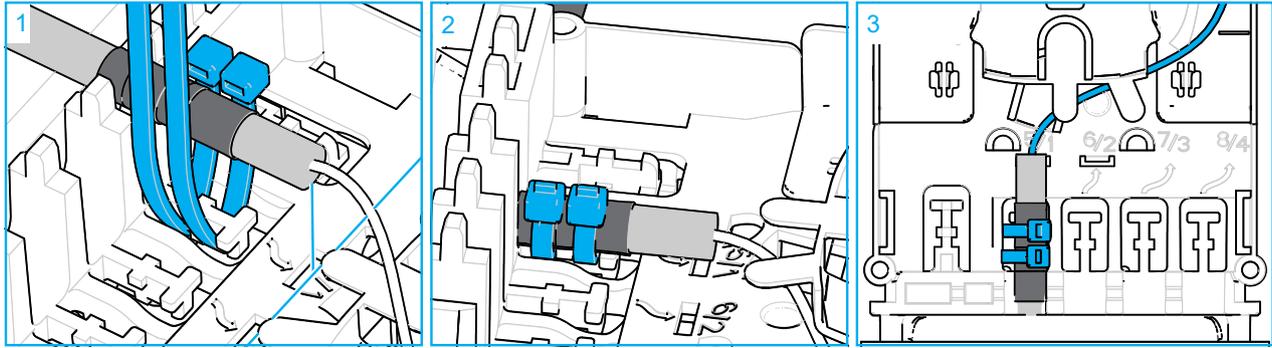
1 Cut 4 cm / 1.6 Inches of silicone tape.

 **Note:** Make sure your hands are clean and degreased before preparing and installing the cables.

2 Make a mark 1 cm / 0.39 Inches and 3 cm / 1.18 inches from the end of the cable jacket.

3 Apply the strip of silicone tape between the 2 marks. Remove the protective paper from the strip. Stretch the tape minimum 50% while wrapping the tape around the cable. First apply a full turn around the cable, then continue to cover up to the second mark. Make one turn at the end point and come back with the remaining tape.

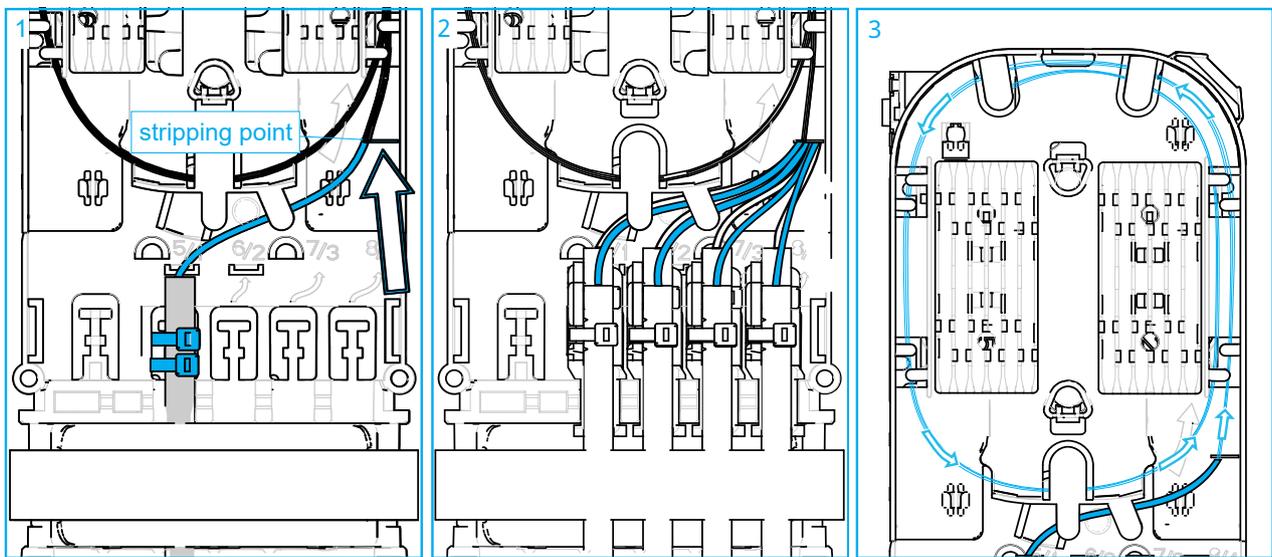
4.1.2 Install drop cable



- 1 Install 2 cable ties around the T-shape on the front of the organizer. Position the cable with the taped area on top of the T-shape and secure the cable ties.

 **Note:** Make sure to install the cable ties with the correct orientation (see figure above).

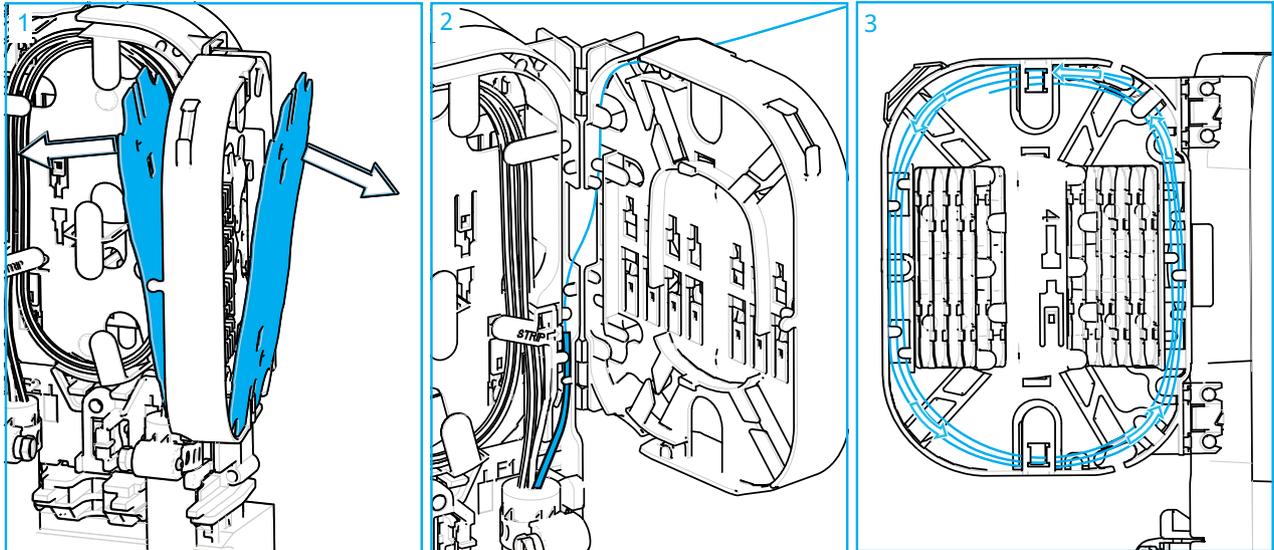
5 Route drop fibers to front splice tray



- 1 All drop subunits are routed to the right side. Bring the cut subunit to the splice tray (front) and mark the stripping point on the sheath. The line indicates the stripping point. Strip the subunit to this mark and clean all fibers per standard practice.
- 2 If only 4 drops are used, they can be secured to the t-shapes. Use the mini dual cable strain relief kit to secure more than 4 drops.
- 3 Store the drop fibers on the front tray, waiting for feeder fibers.

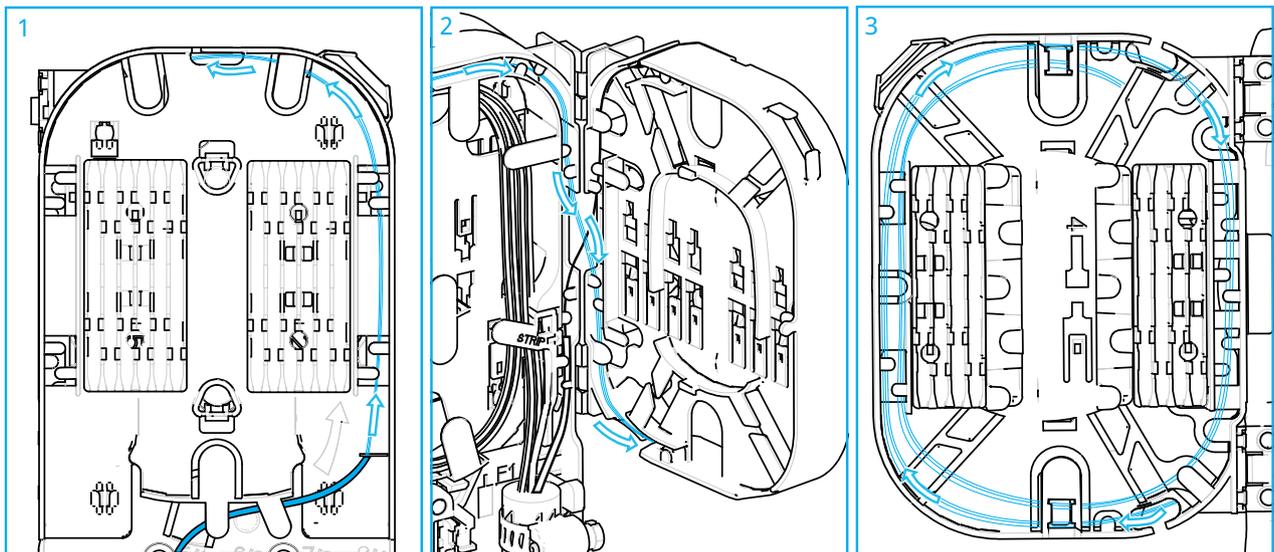
6 Routing feeder and drop to hinged tray

6.1 Route feeder fibers to the splice zone of the hinged tray



- 1 Remove the front and back cover of the hinged tray.
- 2 The arrow on the feeder bracket indicates the stripping point. Mark the subunit at the stripping point and remove the jacket per local practice. Route the subunits to the back of the hinged tray. Use the split at the top of the hinged tray to route to the other side of the tray.
- 3 Store the subunits in the splice tray. Replace the front and back cover of the hinged tray.

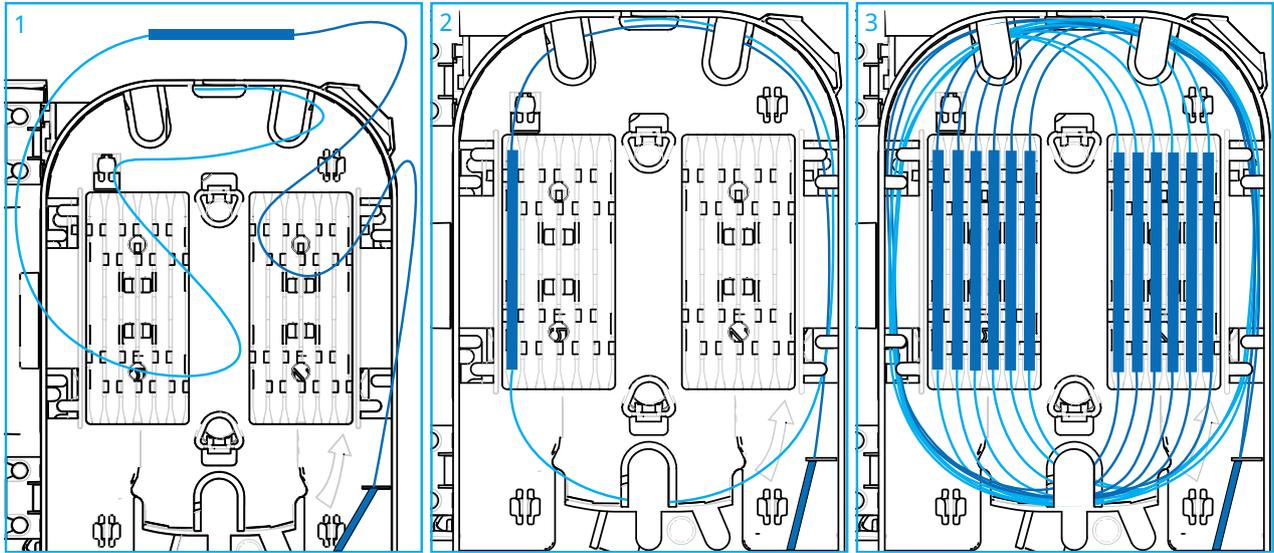
6.2 Route drop fibers to hinged tray



- 1 Route the drop fibers to the top of the front tray and guide them through the slot to the back.
- 2 Route the drop fibers over the hinge to the slot at the bottom of the hinged tray
- 3 Drop fibers routed on the hinged splice tray, waiting for feeder fibers.

7 Splice drop cable

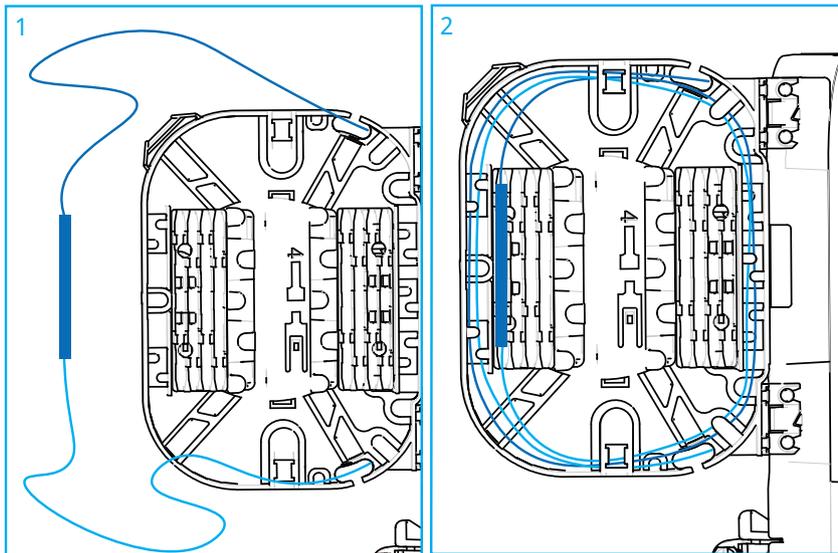
7.1 Splicing on front tray



- 1 Make fusion splice per standard practice.
- 2 Store the splice protector in the splice protector holder. Start storing the splice protectors from left to right.
- 3 Store over length in loops on the tray.

 **Note:** Make sure all fibers are properly positioned underneath the lips and avoid bulging of the fiber. The fiber guidance pen can be used to position all the fibers underneath the lips.

7.2 Splicing on hinged tray

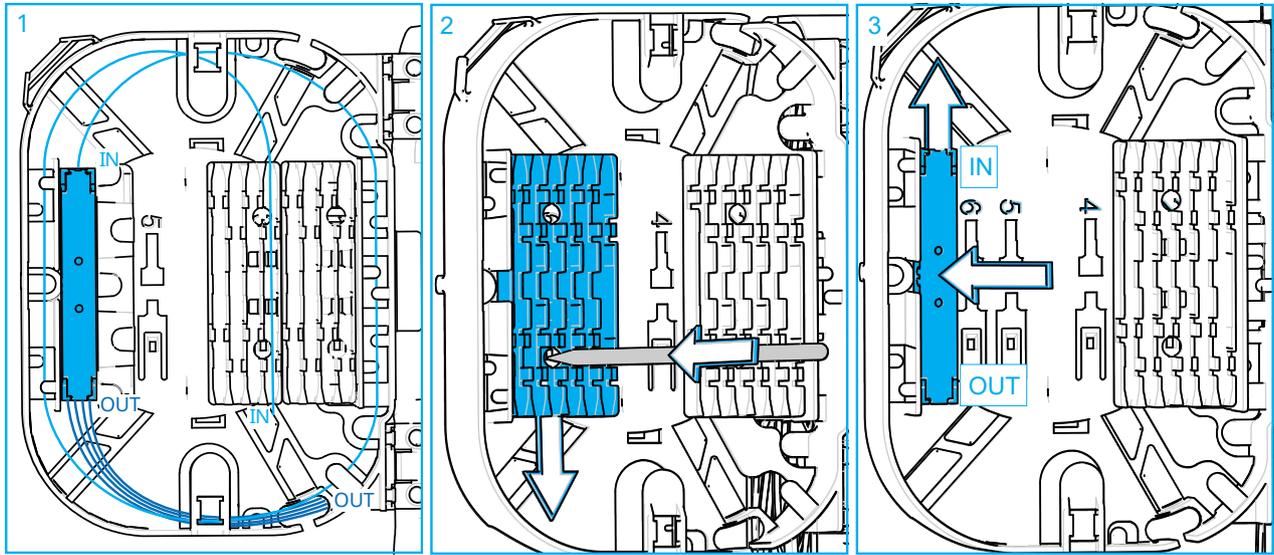


- 1 Make fusion splice per standard practice.
- 2 Store the splice protector in the splice protector holder. Start storing the splice protectors from left to right. Store over length in loops on the tray

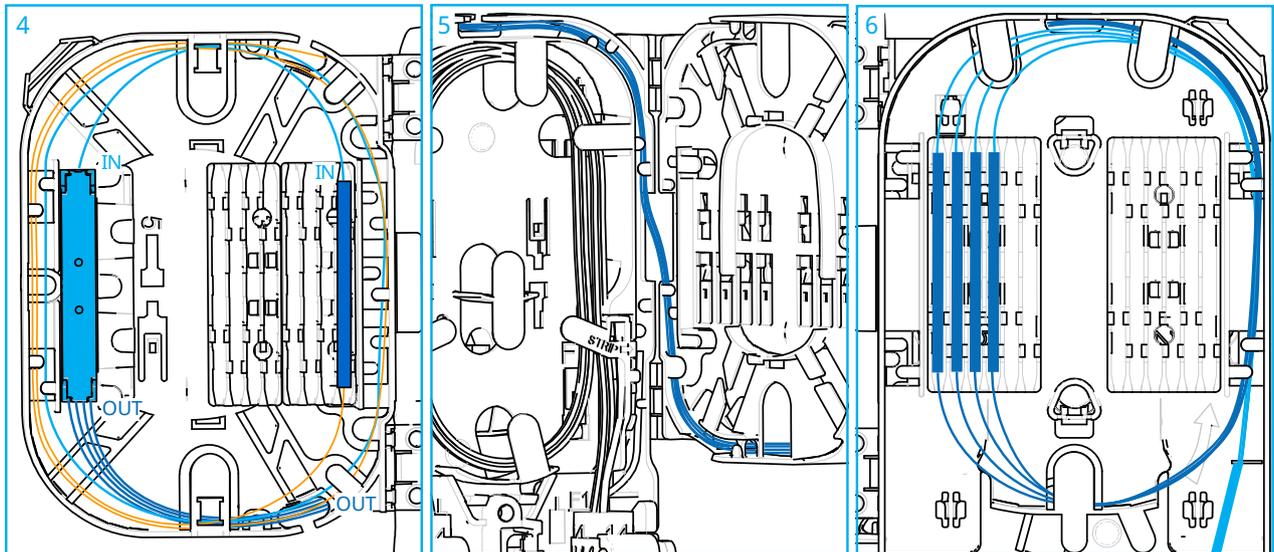
 **Note:** Make sure all fibers are properly positioned underneath the lips and avoid bulging of the fiber. The fiber guidance pen can be used to position all the fibers underneath the lips.

8 Splitter application

Prepare and install the feeder cable as explained in Route feeder fibers to the splice zone of the hinged tray [on page 6](#).



- 1 A splitter can be factory installed on the hinged tray.
- 2 It is also possible to install the splitter in the field. The splitter must be installed on the left side of the hinged tray in position 7 (see numbering on the tray). If other components are installed in this position, remove them first. Use the tip of the fiber guidance pen to unlock the splice protector holder, then slide the splice protector downwards.
- 3 Slide the field installable splitter into the dove tails. Make sure the input of the splitter is oriented to the top.



- 4 Splice the input of the splitter to the feeder fiber (entering on the hinged tray) by making a fusion splice: make fusion splice per standard practice, store the splice protector in the splice protector holder and store over length in loops on the tray.
- 5 Route the output of the splitter to the front splice tray.
- 6 Splice the output of the splitter to the drop fibers by making a fusion splice. Make fusion splice per standard practice. Store the splice protector in the splice protector holder and store over length in loops on the tray.

 **Note:** The fiber guidance pen can be used to position all the fibers underneath the lips. Make sure all fibers are properly positioned underneath the lips and avoid bulging of the fiber.

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