

## XS - IFEB20

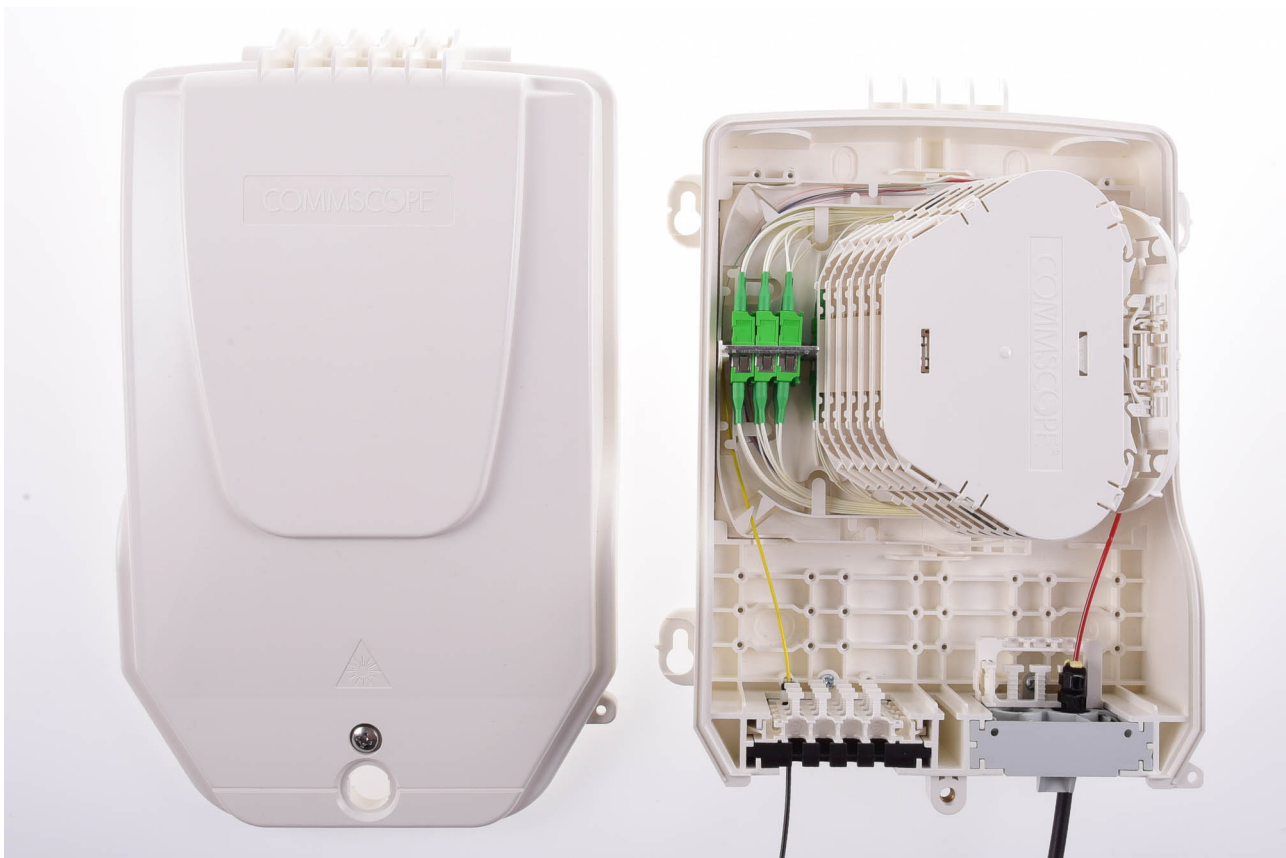
### 1 About this manual

This publication provides user information for the installation of the IFEB. The Indoor Fiber Entrance Box is ideal for small to medium size buildings. It provides a flexible fiber management system for transitioning outside plant cable to indoor cable via splicing or with connectorized cable assemblies. It incorporates proven fiber routing procedures, cable termination accessories and splice trays resulting in consistent, high-quality fiber management.

**Images in this manual are for reference only and do not always show the actual configuration.**

Always refer to the section "5.5 Layout" on page 6 for the actual configuration.

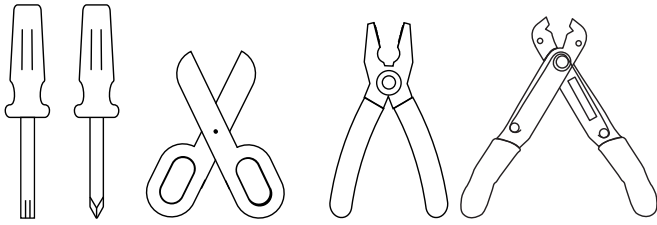
### 2 Product image



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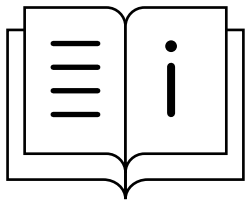
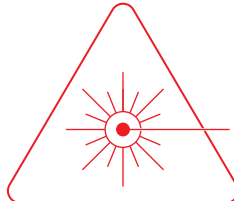
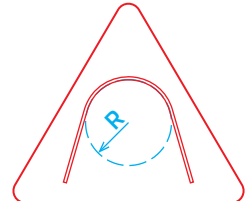
### 3 Tools



From left to right:

- Torx screwdriver
- Phillips screwdriver
- Scissors
- Pliers
- Stripping pliers

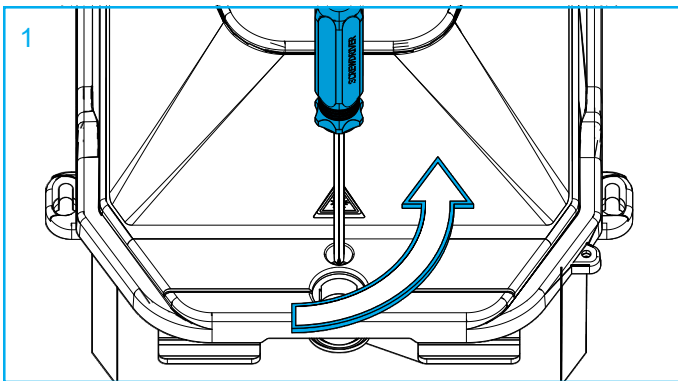
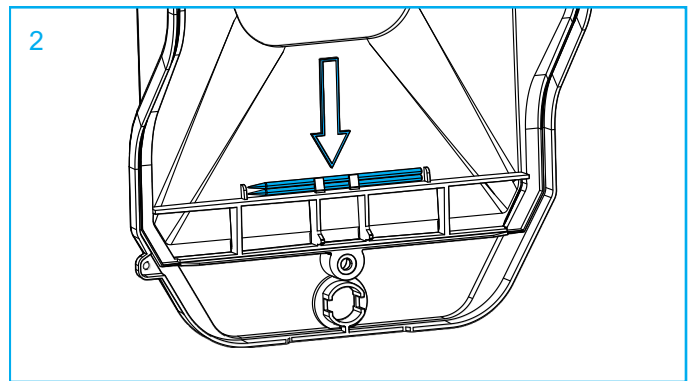
### 4 Warnings and cautions



- 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 and patch cords.

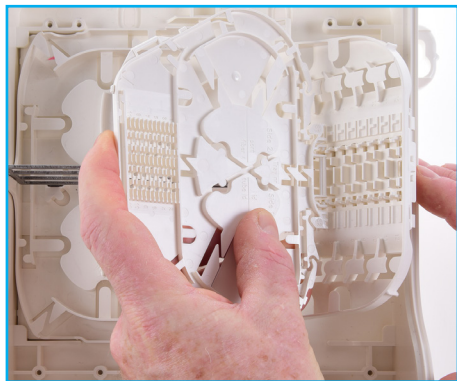
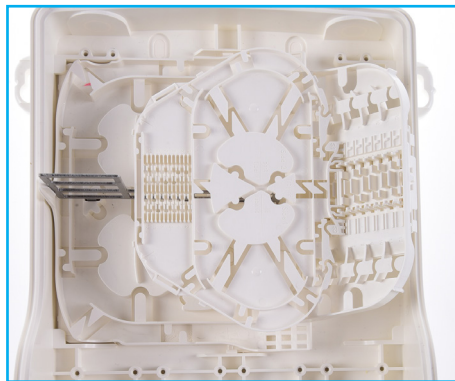
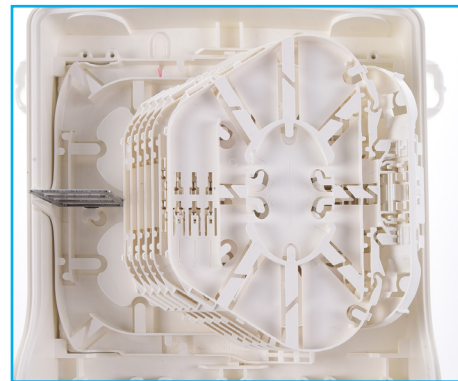
### 5 IFEB preparation

#### 5.1 Open the box



- 1 Open the box.
- 2 Locate the fiber guidance pens from inside the box cover. These pens can be used to easily & quickly disassemble the seal ports to allow a wrap around cable installation and to handle fibers.

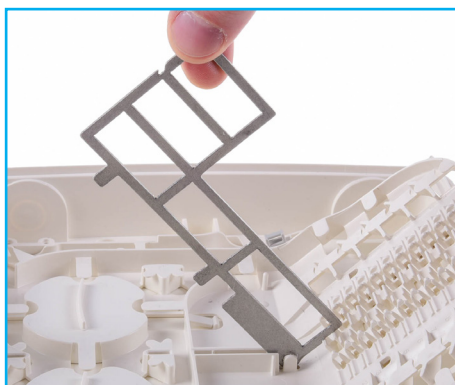
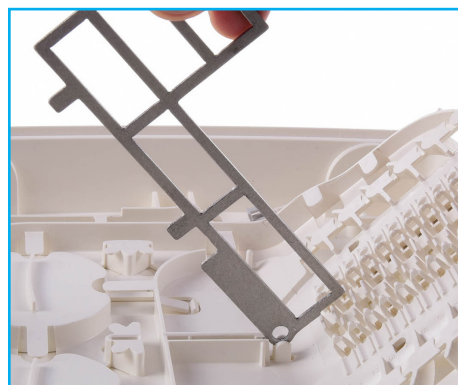
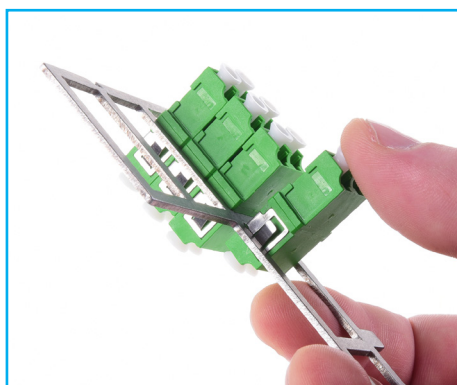
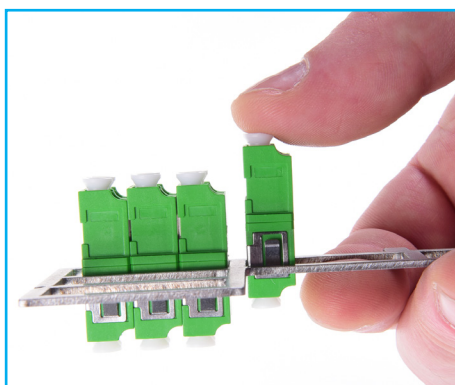
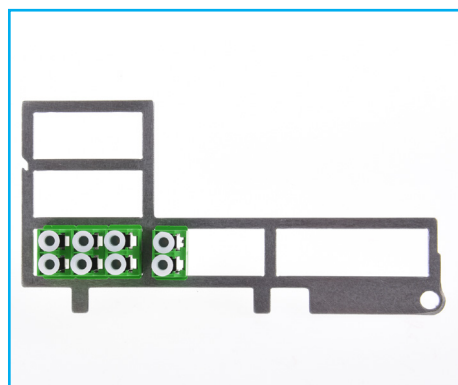
## 5.2 Install trays



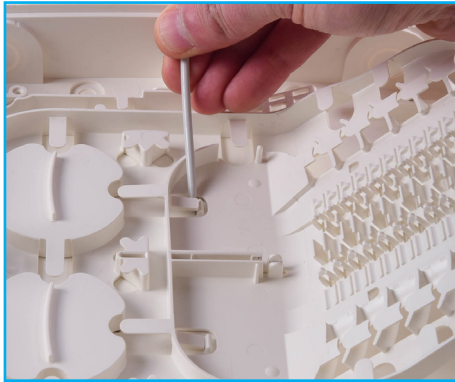
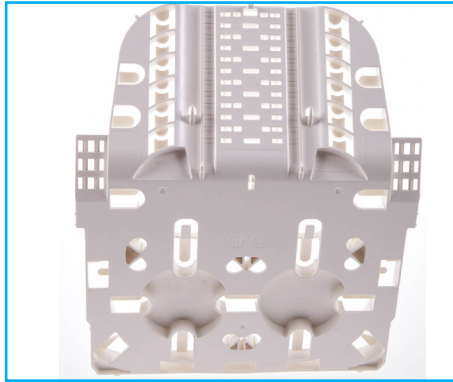
- 1 Install the first tray in position 5 above the patch panel.
- 2 Lower the tray.
- 3 Install the remaining trays, stacking them upwards and place the cover on the top tray.

## 5.3 Install adapters

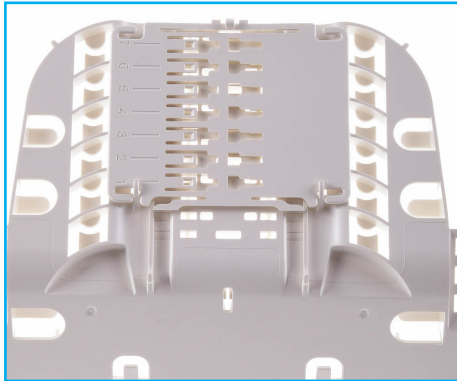
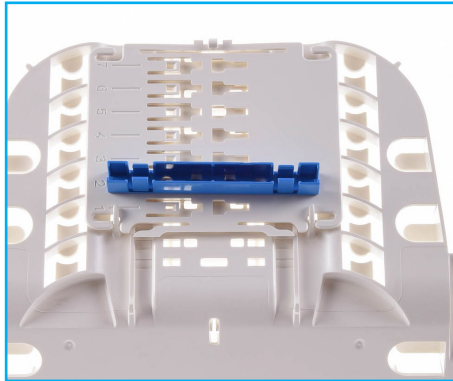
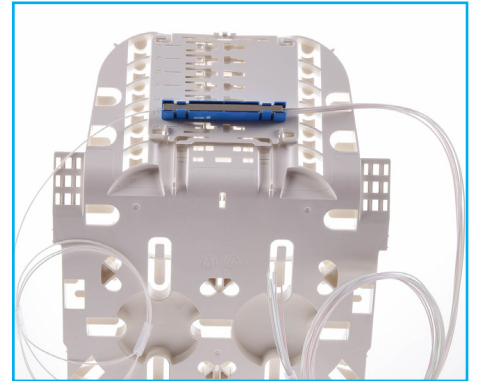
Patch panel can be tilted (picture 2) or removed (picture 3) if necessary during installation.



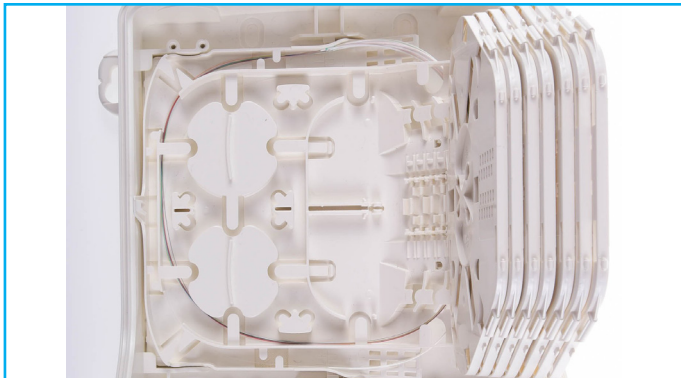
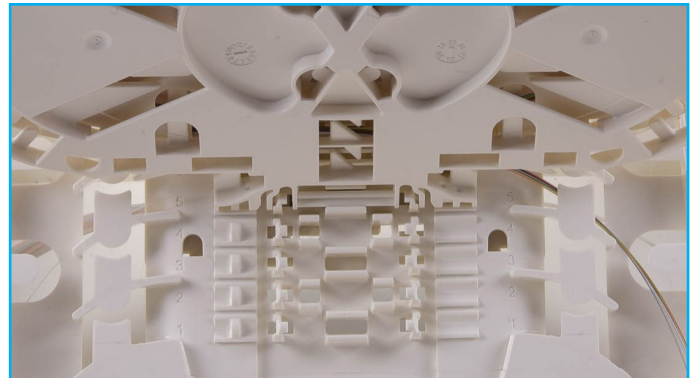
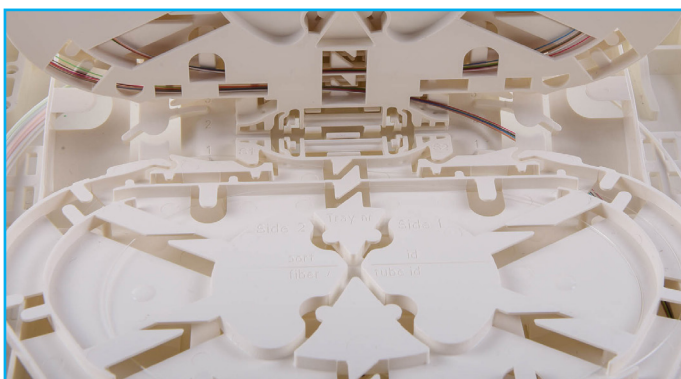
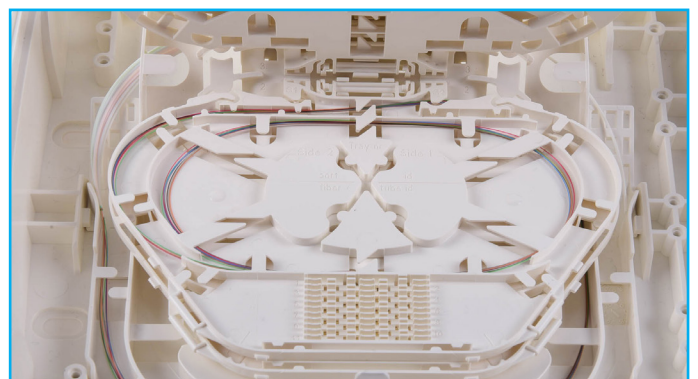
## 5.4 Install splitter



The splitter is installed on the back of the tray tower. For easy access, the baseplate can be removed.

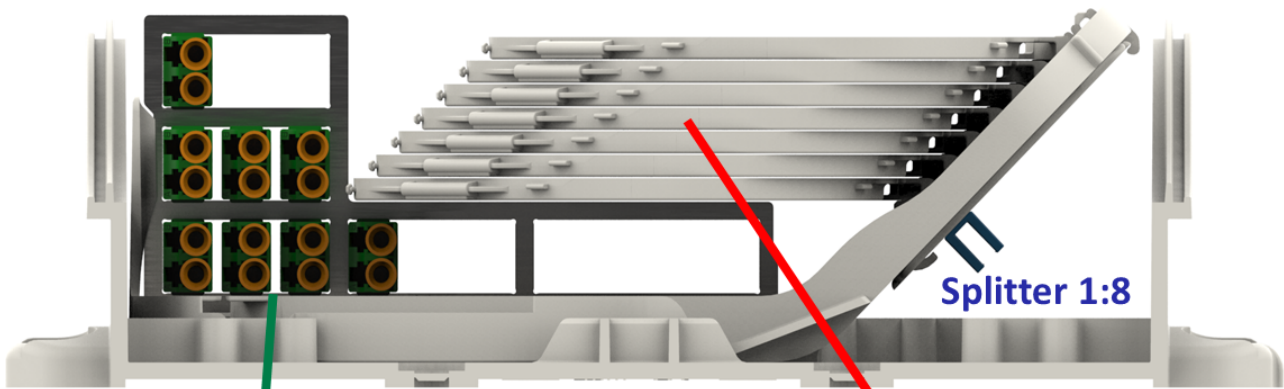
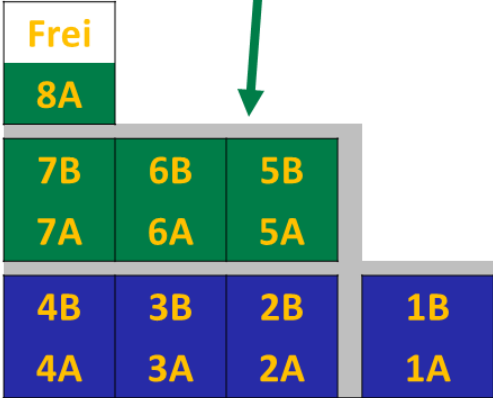


Click the adapter plate into position.  
Click the splitter holder into the adapter plate.  
Insert the splitter in the correct orientation.



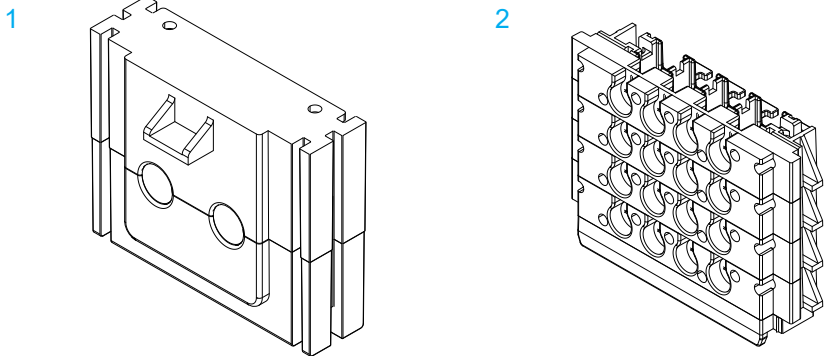
Route the fibers to the splice trays.

5.5 Layout



|   |                                                                                  |
|---|----------------------------------------------------------------------------------|
| 7 | - NE4 Kassette für WE 13 – 15, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen |
| 6 | - NE4 Kassette für WE 10 – 12, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen |
| 5 | - NE4 Kassette für WE 7 – 9, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen   |
| 4 | - NE4 Kassette für WE 4 – 6, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen   |
| 3 | - NE4 Kassette für WE 1 – 3, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen   |
| 2 | - Kassette für Splitter OUT Fasern                                               |
| 1 | - NE3 Kassette für 12 Fasern, Splitter IN + ungesplittete Fasern WE 9 - 15       |

5.6 Seals



| N° | Description                       |
|----|-----------------------------------|
| 1  | Sealblock 2 x 15mm (feeder cable) |
| 2  | Sealblock 16 x 7mm (drop cable)   |

**Note:** Important: Install foam to thicken cable to seal the port:

Table 1: Foam length per cable diameter

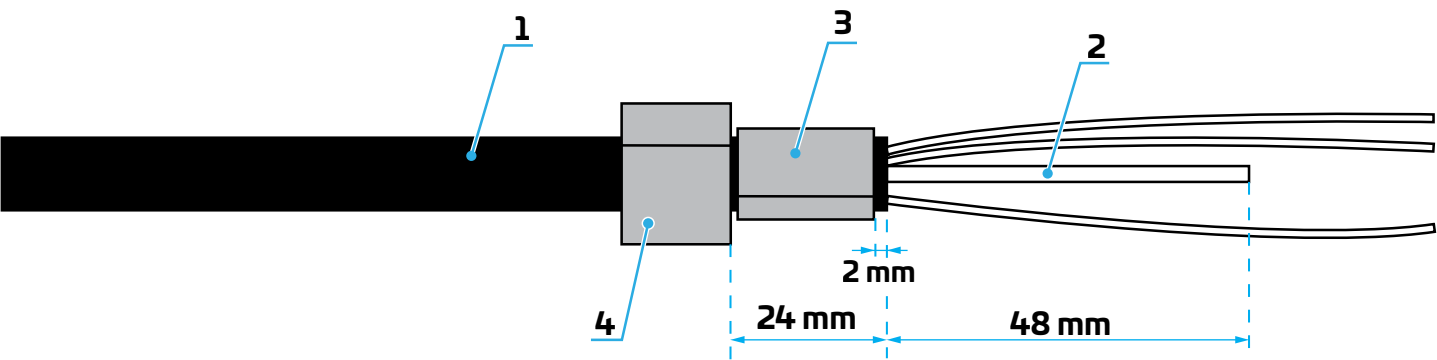
| Sealblock 2 x 15mm  |                     |
|---------------------|---------------------|
| Cable diameter (mm) | Foam length (±5 mm) |
| 5                   | 170                 |
| 6                   | 160                 |
| 7                   | 150                 |
| 8                   | 140                 |
| 9                   | 125                 |
| 10                  | 115                 |
| 11                  | 105                 |
| 12                  | 95                  |
| 13                  | 85                  |
| 14                  | 70                  |
| 15                  | 60                  |

6

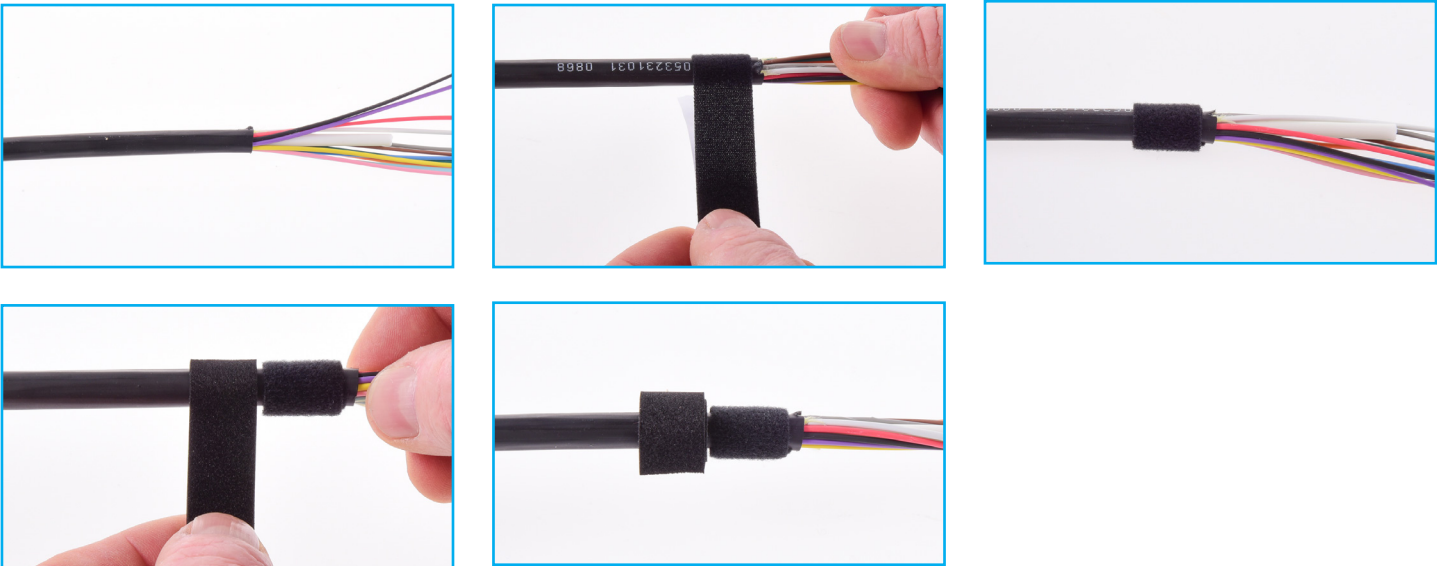
Feeder cable

6.1

Feeder cable preparation

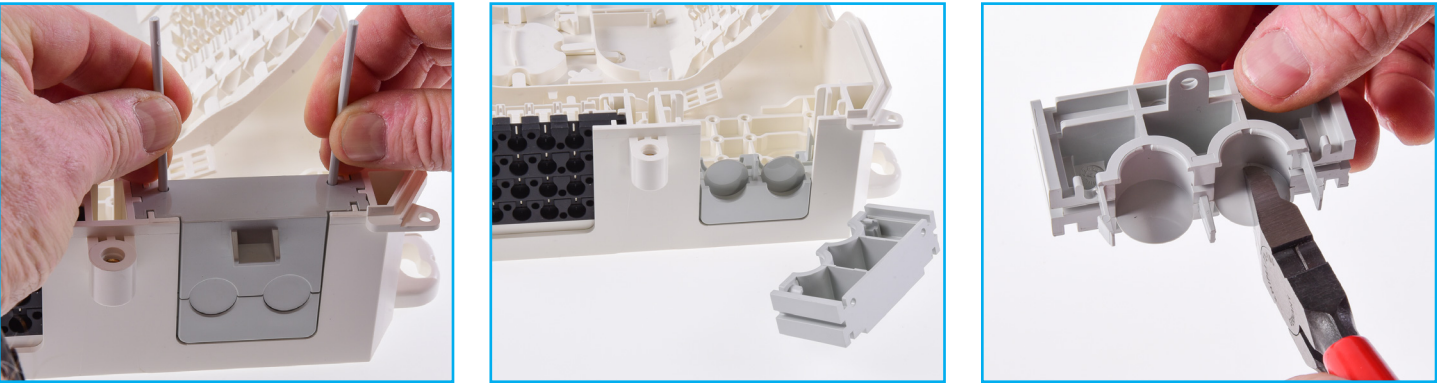


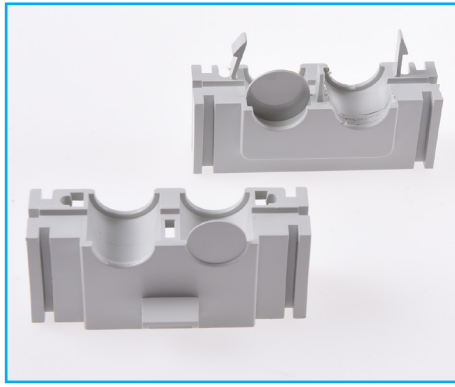
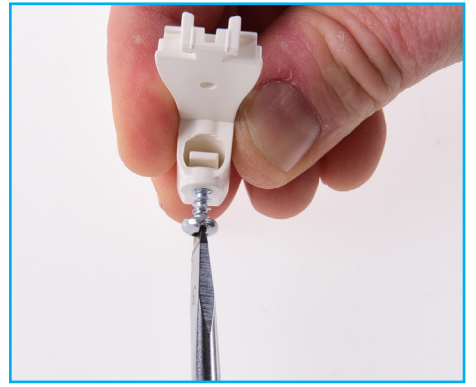
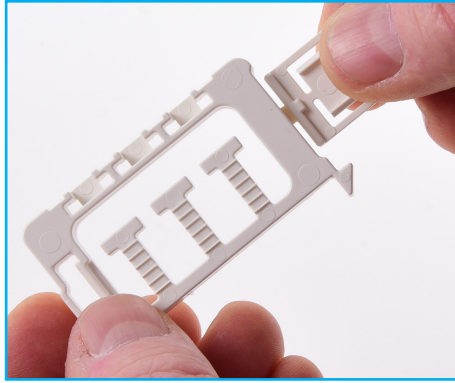
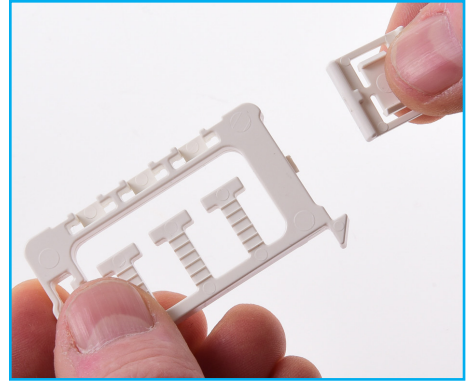
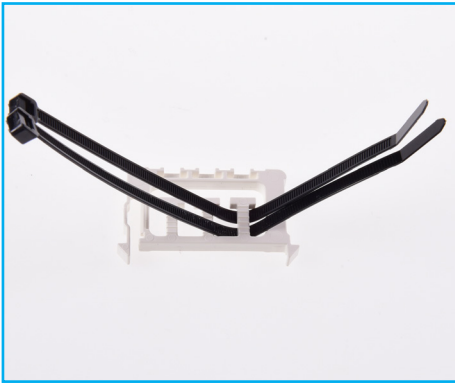
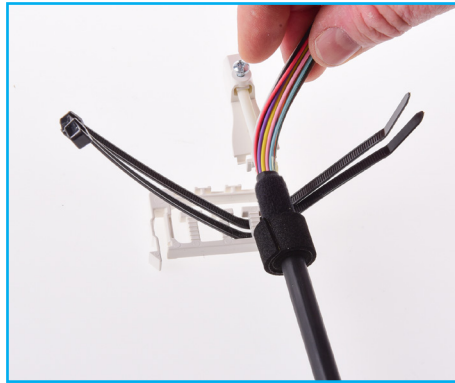
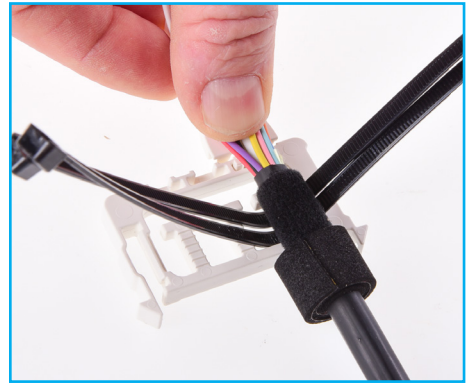
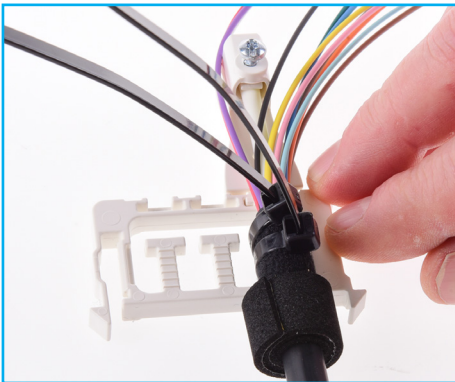
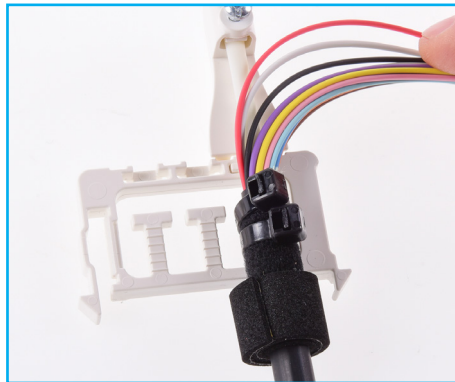
| N° | Description           | Preparation                                                                                                                                                                                     |
|----|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Jacket                | Remove 1.5 m from the jacket of the cable.                                                                                                                                                      |
| 2  | Rigid strength member | Cut the strength member to a length of 48 mm.                                                                                                                                                   |
| 3  | Protection tape       | Wrap a piece of protection tape around the cable jacket at a distance of 2 mm from the jacket end.                                                                                              |
| 4  | Foam                  | Cut a piece of foam (length according to <b>Table 1: Foam length</b> ). Wrap it around the cable at a distance of 24 mm from the jacket end. At this place the cable will touch the cable seal. |

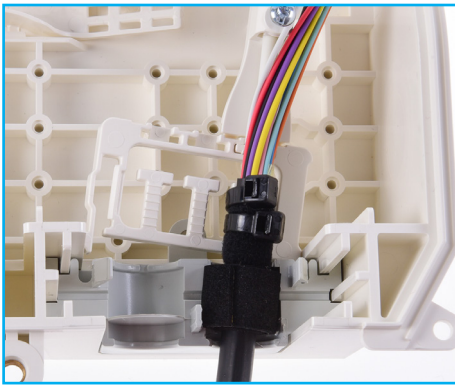
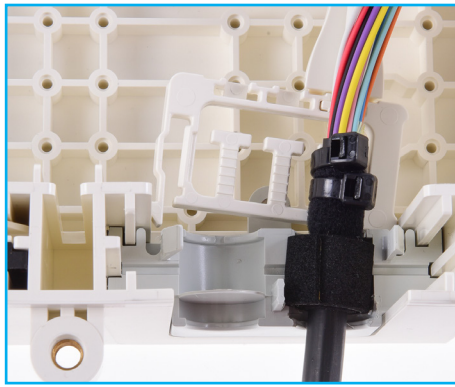
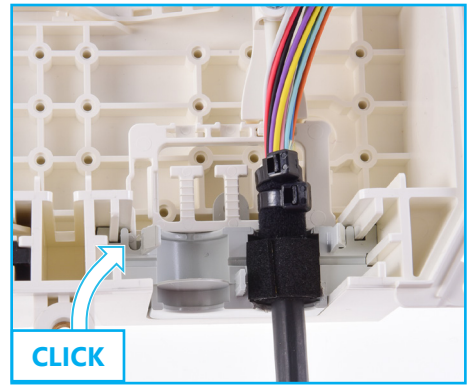
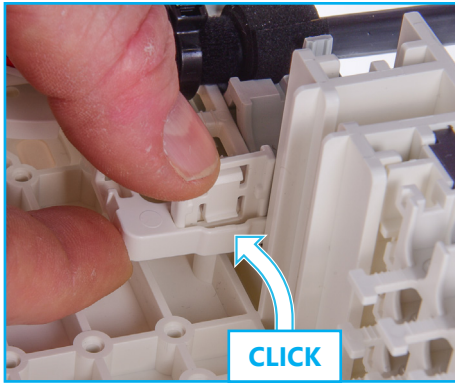
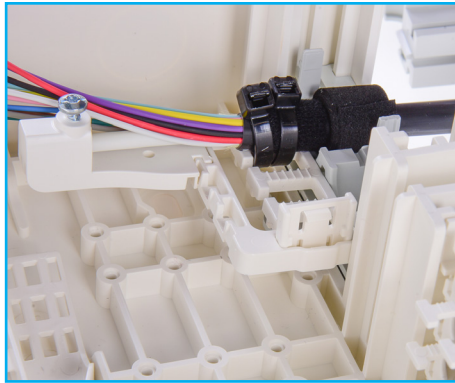
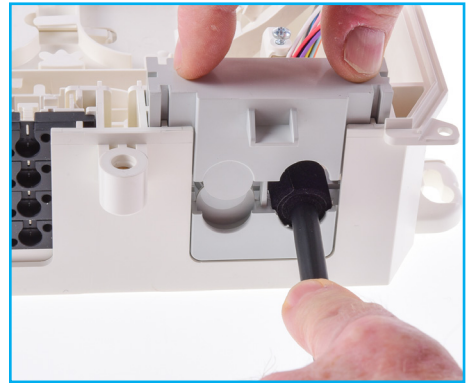


6.2

Feeder cable installation





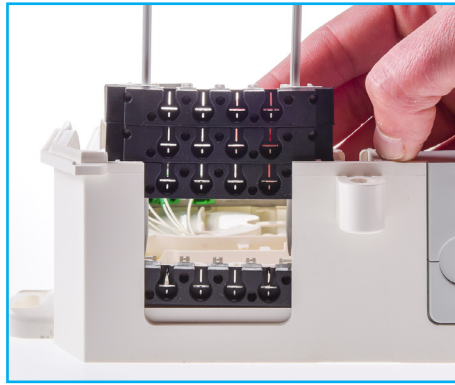
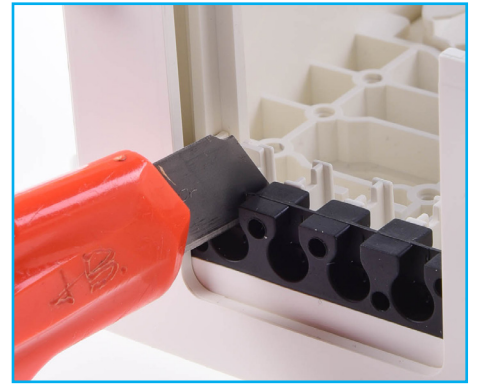
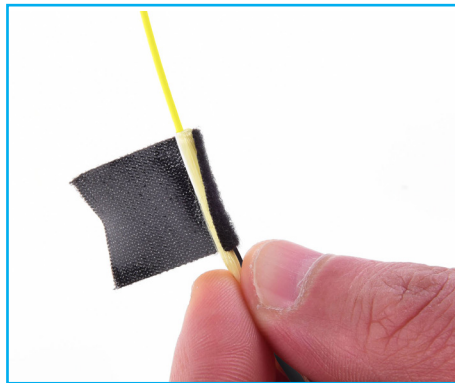
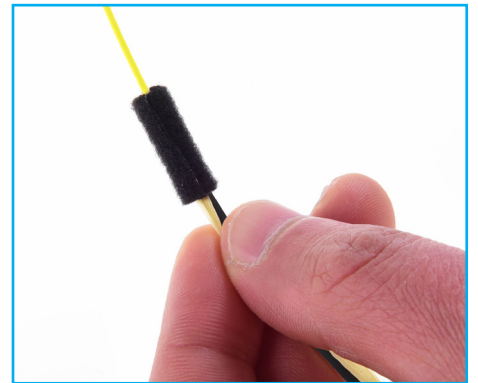
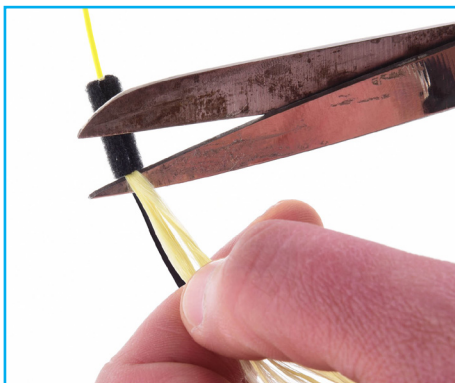
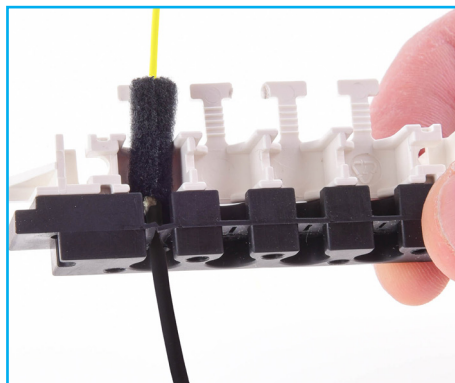
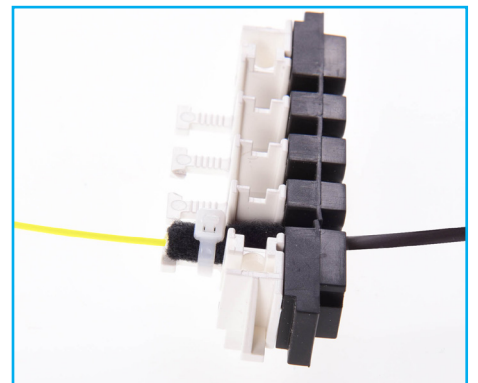
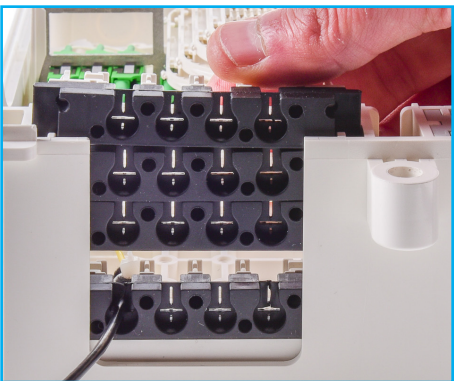


6.3 Route feeder fibers to tray

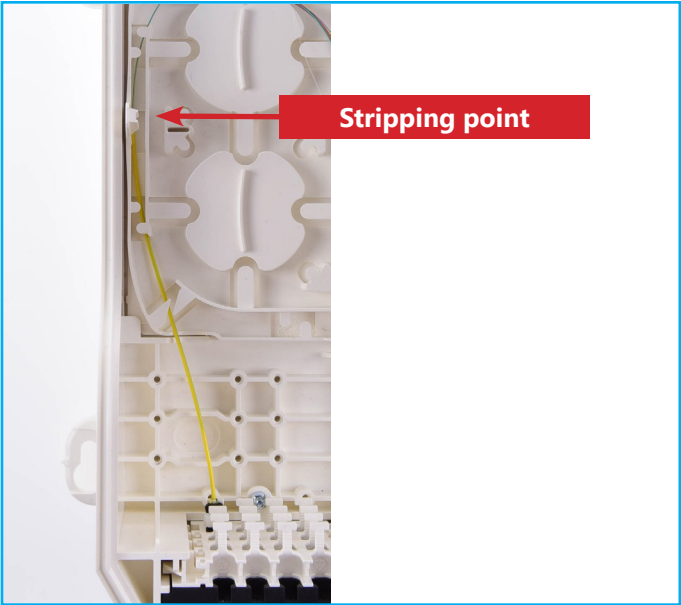
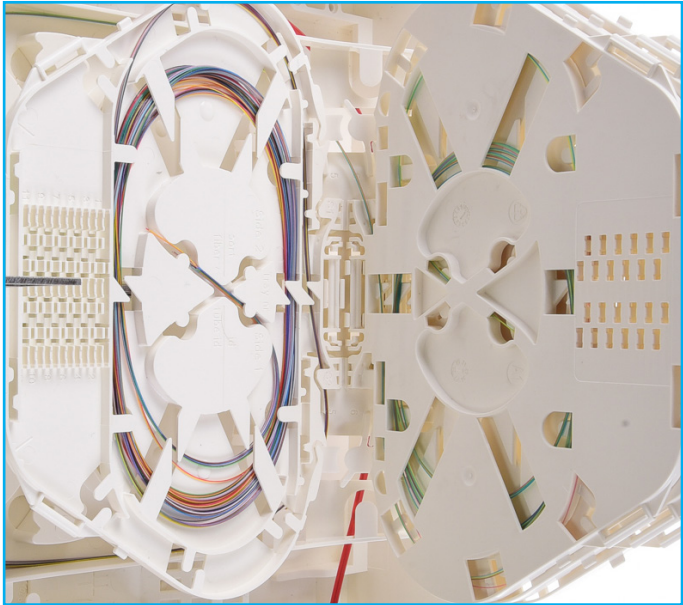
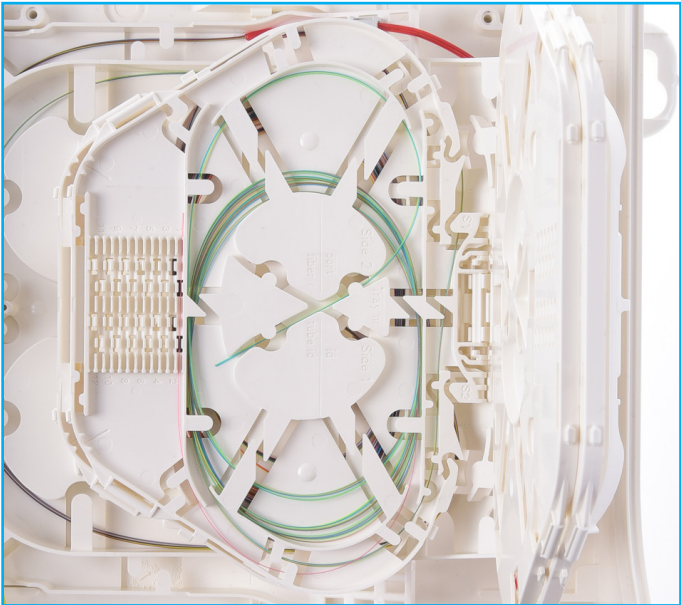


## 7 Drop cable

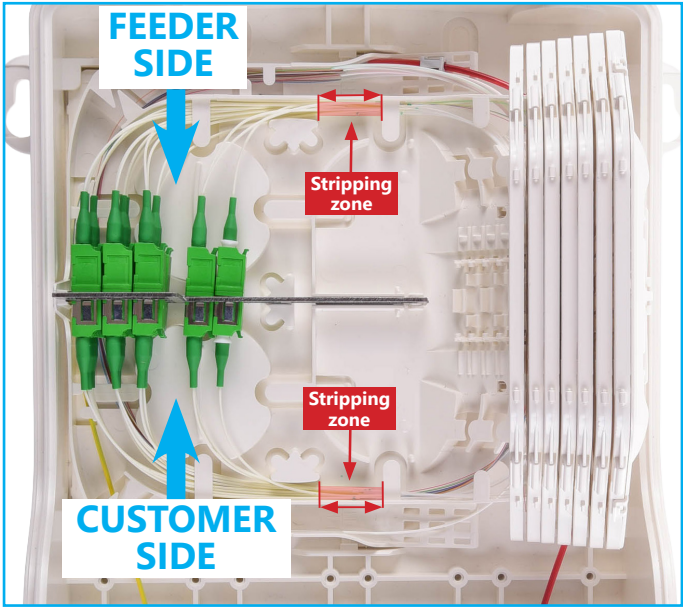
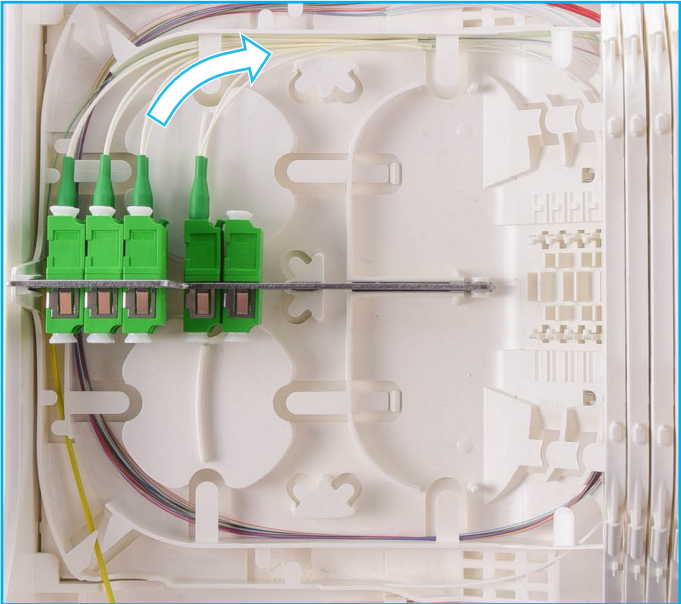
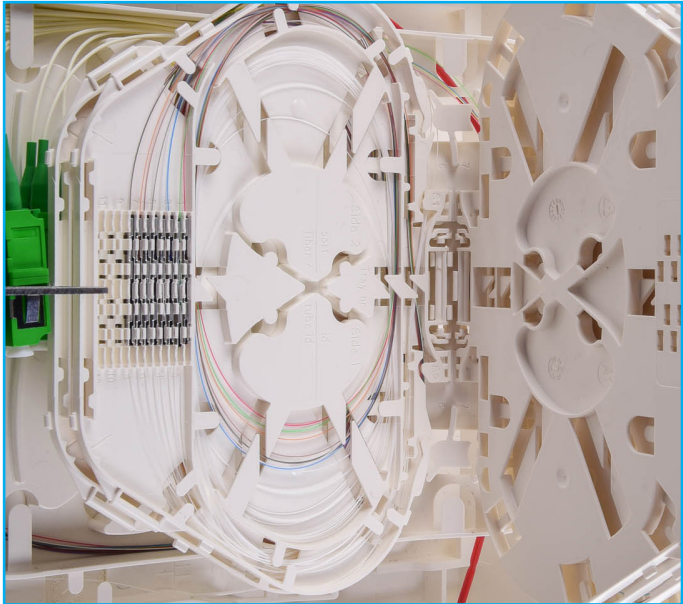
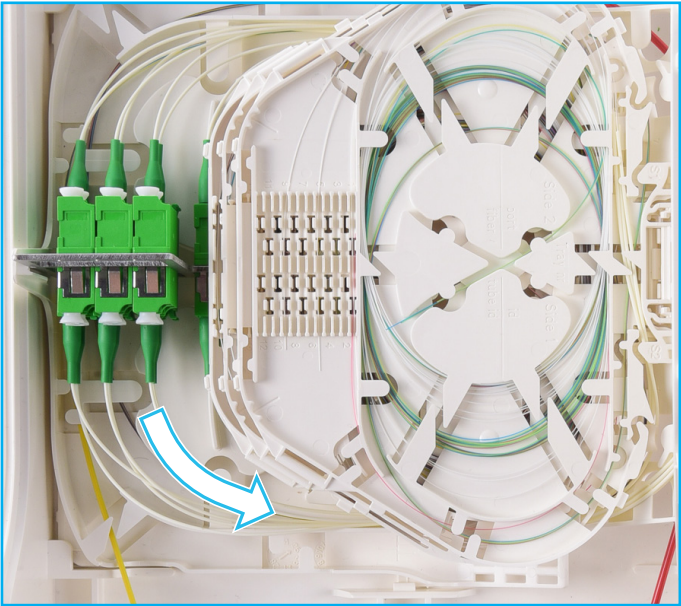
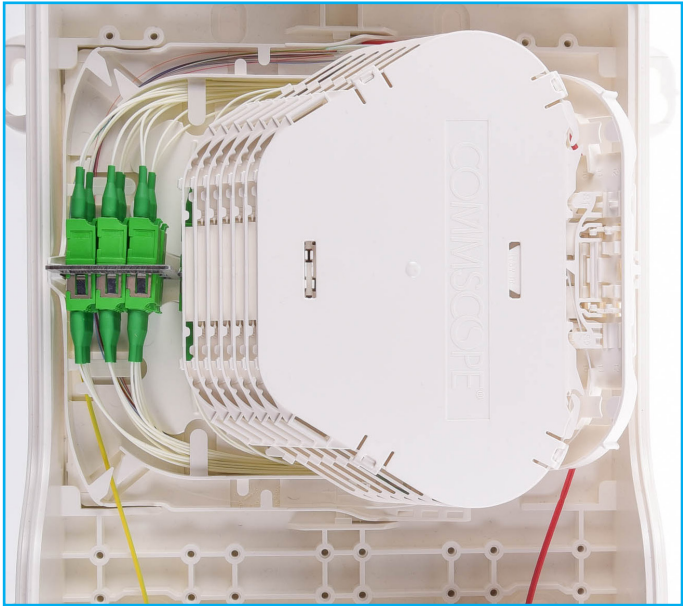
### 7.1 Drop cable installation



7.2 Route drop fibers to tray



8      Install 900µm pigtails



## 9 Splicing

Make splice per local practice and store the splice protector in the splice protector holder. Store the over lengths in loops in the over length storage area.

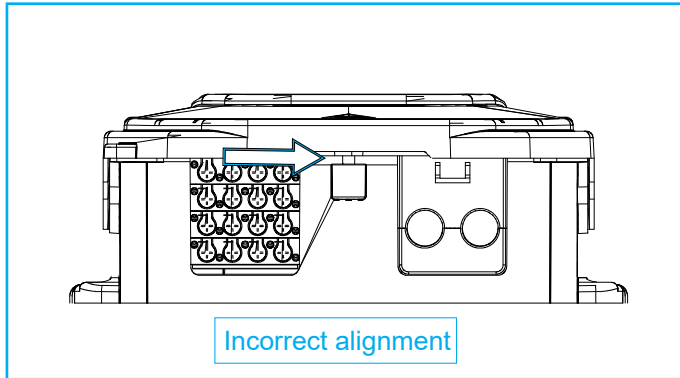
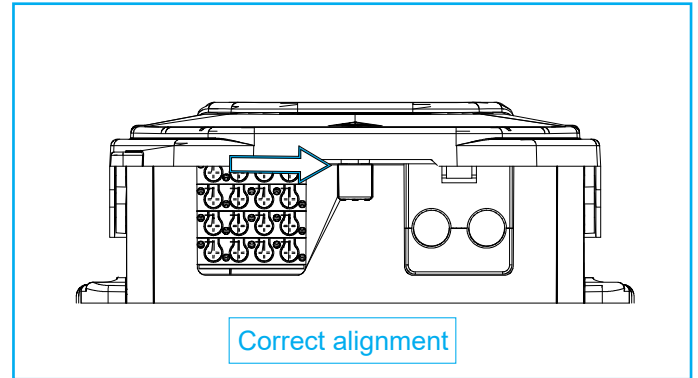
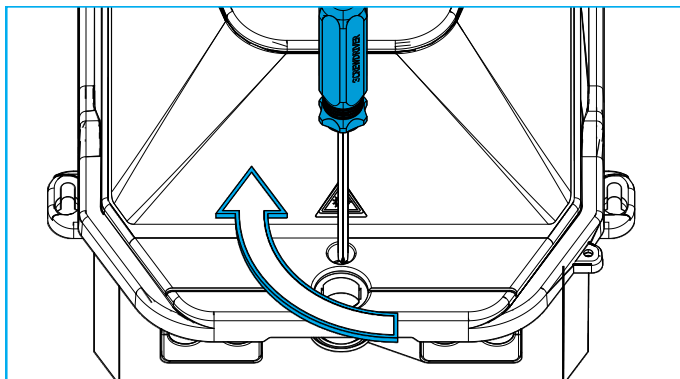
## 10 Close the box

 **Note:** Use a blindplate in case of an un-used seal port.

! **Caution:** Ensure all cables are properly positioned inside the box to avoid damaging them when closing the cover.

! **Caution:** Secure all cables to the wall below the box before bending.

Verify that the cover is installed properly with no space between the housing and cover as shown.



1 Secure by turning the locking screw.

## 11 Disclaimer

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