S - IFEB30

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 are subject to change.

2 Product image



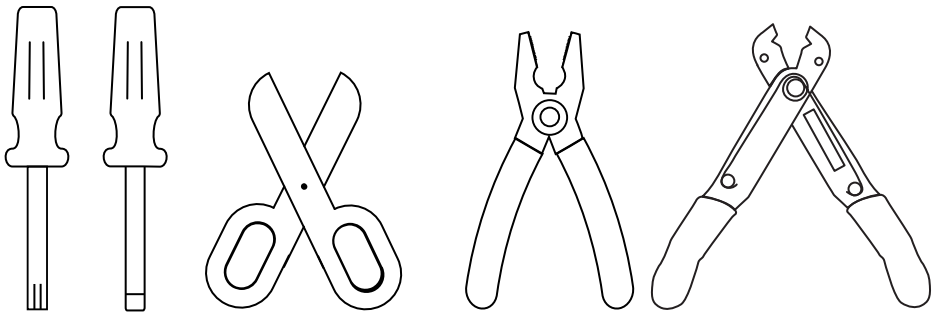
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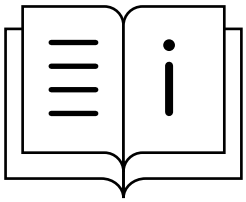
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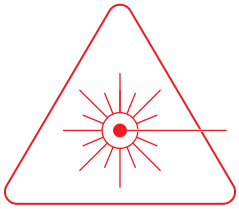
3 Tools

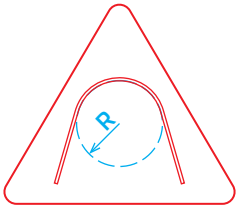


From left to right:
- Torx screwdriver
- Phillips screwdriver
- Scissors
- Pliers
- Stripping pliers

4 Warnings and cautions



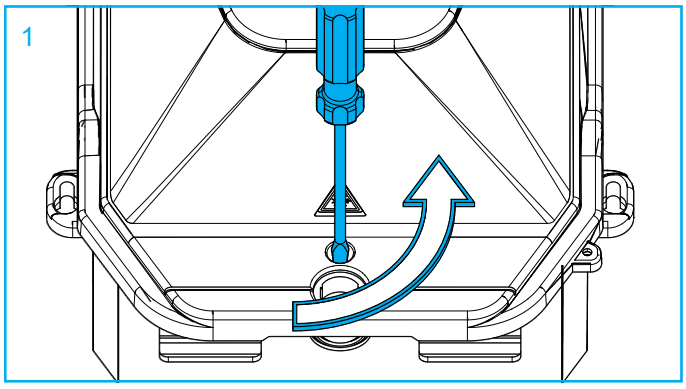


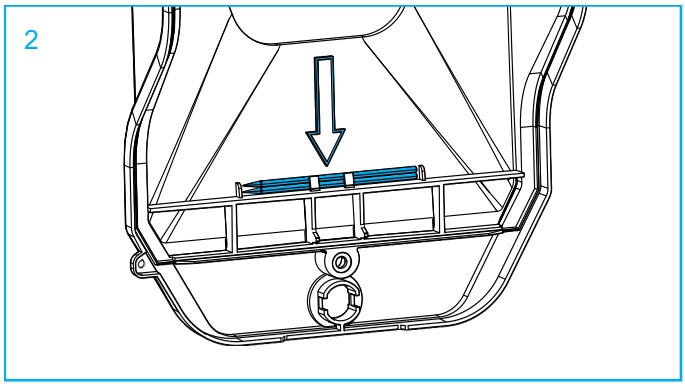


- Follow the installation instruction steps to ensure the performance of the closure. It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.
- Exposure to laser radiation can seriously damage the retina of the eye. Do not look into the 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



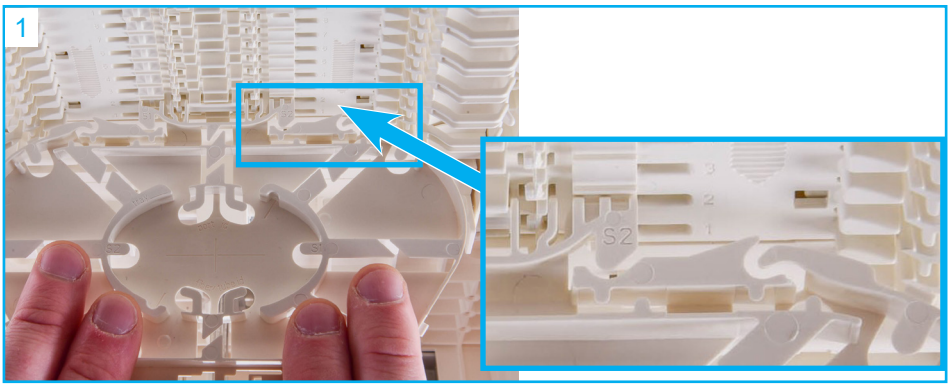


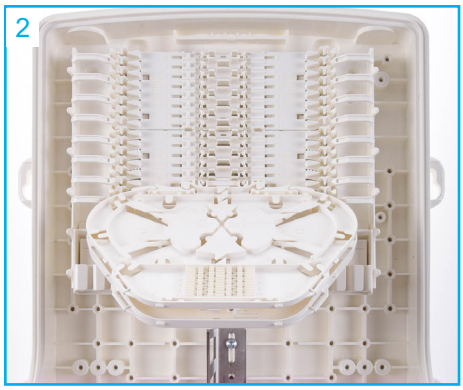
1 Open the box.

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.

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5.2 Install trays

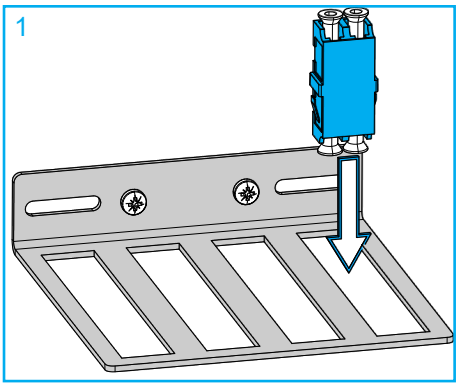


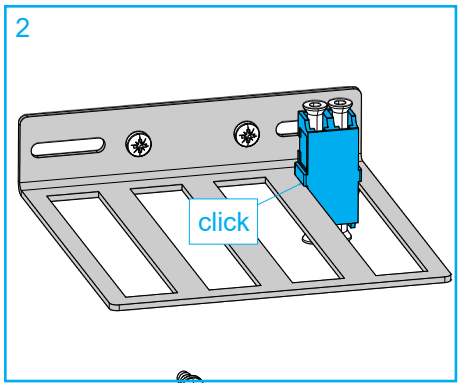


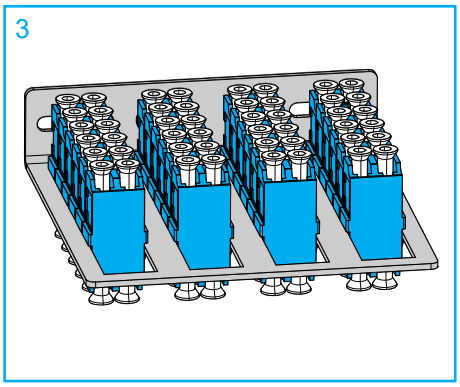
1 Install the splitter tray in the second position from the bottom.

2 Install the remaining splice trays, stacking them upwards.

5.3 Install adapters

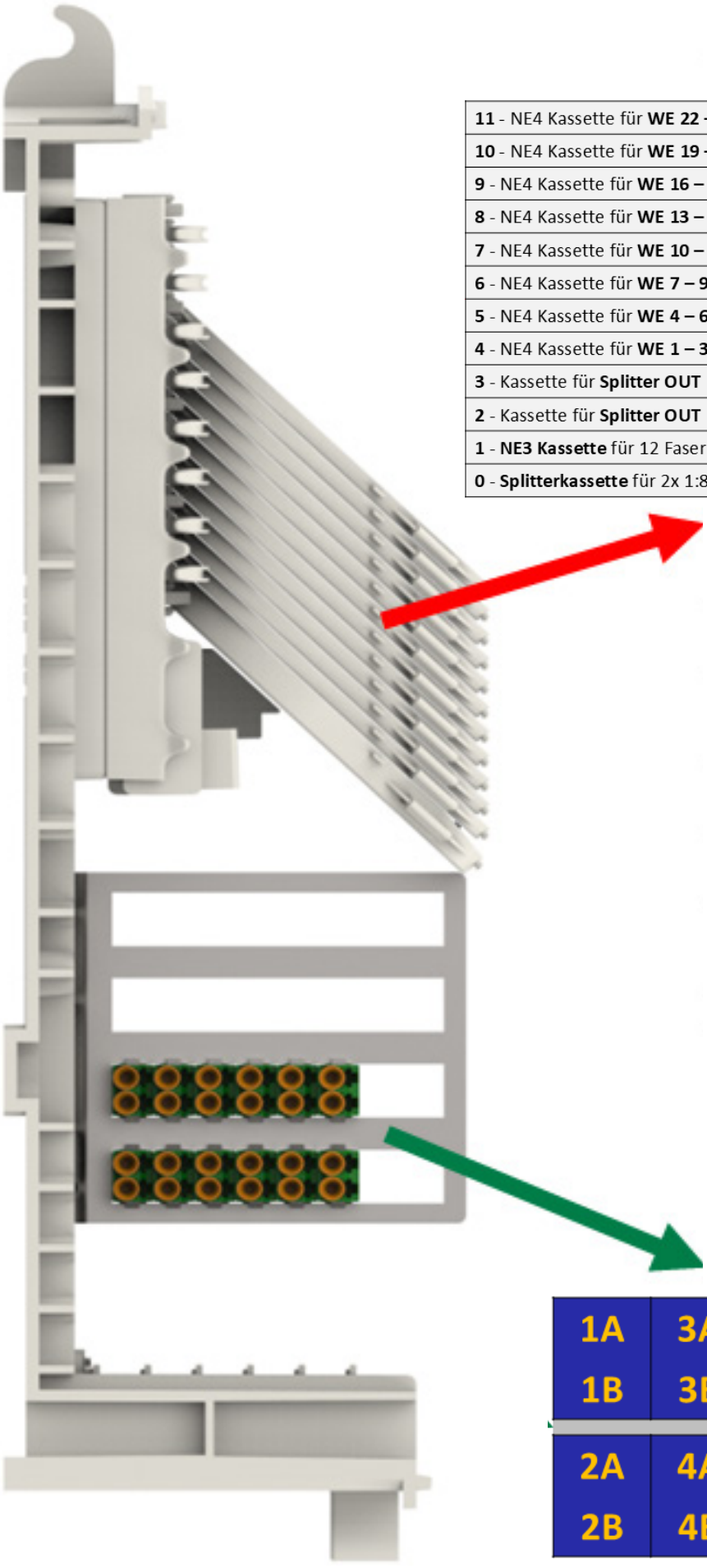






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5.4 Layout



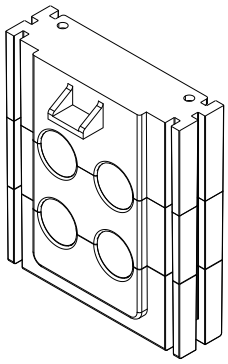
11 - NE4 Kassette für **WE 22 – 24**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
10 - NE4 Kassette für **WE 19 – 21**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
9 - NE4 Kassette für **WE 16 – 18**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
8 - NE4 Kassette für **WE 13 – 15**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
7 - NE4 Kassette für **WE 10 – 12**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
6 - NE4 Kassette für **WE 7 – 9**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
5 - NE4 Kassette für **WE 4 – 6**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
4 - NE4 Kassette für **WE 1 – 3**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
3 - Kassette für **Splitter OUT** Fasern **Splitter 2**
2 - Kassette für **Splitter OUT** Fasern **Splitter 1**
1 - **NE3 Kassette** für 12 Fasern, 2x Splitter IN + ungesplittete Fasern **WE 17 - 23**
0 - **Splitterkassette** für 2x 1:8 Splitter

1A	3A	5A	7A	9A	11A
1B	3B	5B	7B	9B	11B
2A	4A	6A	8A	10A	12A
2B	4B	6B	8B	10B	Frei

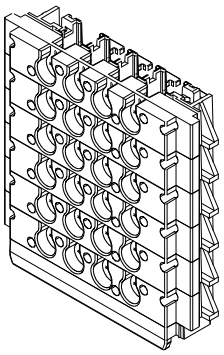
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5.5 Seals

1



2



N°	Description
1	Sealblock 4 x 15mm (feeder cable)
2	Sealblock 24 x 7mm (drop cable)

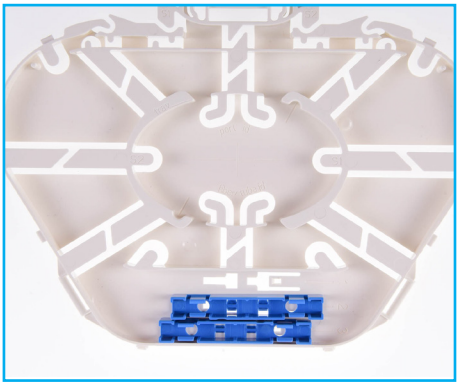
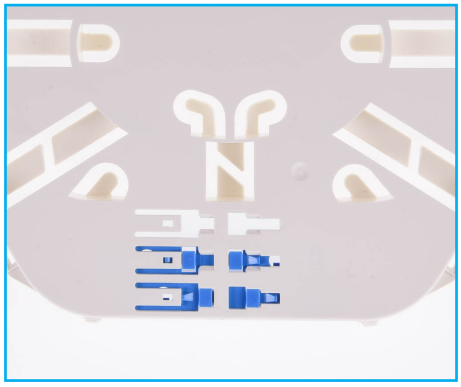
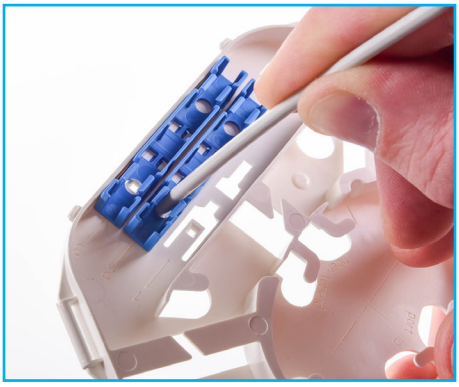
📝 ***Note:*** Install foam to thicken cable to seal the port:

Table 1 :Foam length per cable diameter

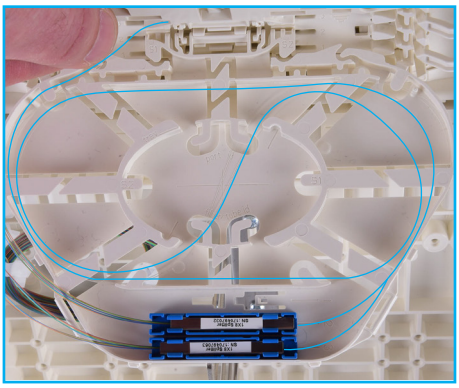
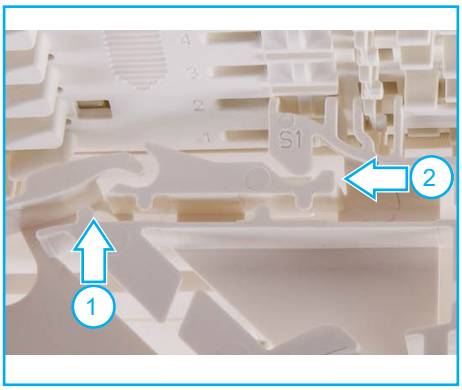
Sealblock 4 x 15mm	
Cable diameter (mm)	**Foam length (±5 mm)**
5	170
6	160
7	150
8	140
9	125
10	115
11	105
12	95
13	85
14	70
15	60

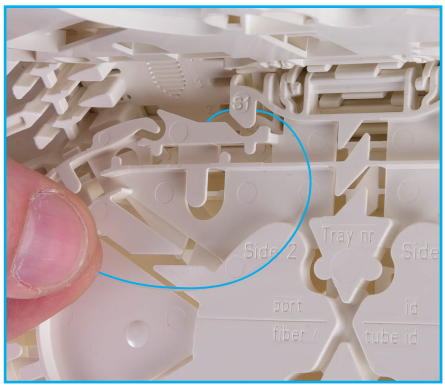
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6 Install splitters

6.1 Route splitter input

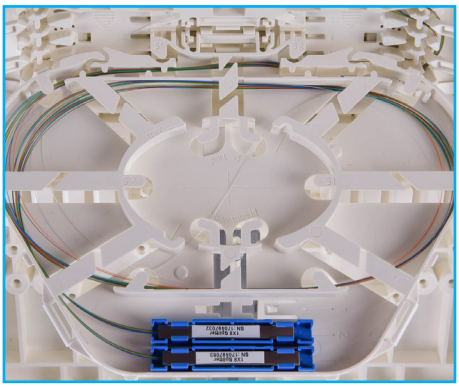
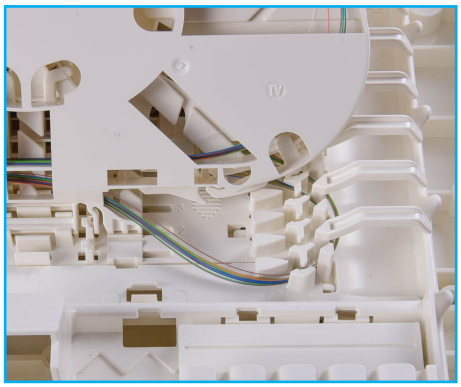
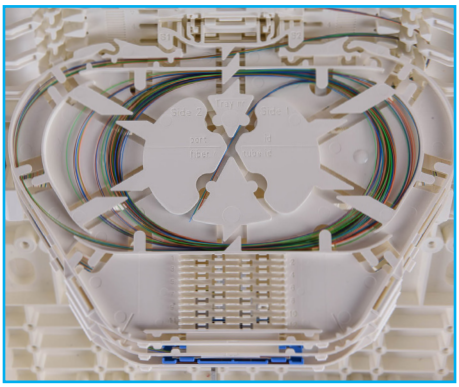





1 When routing the splitter input, change the direction of the fiber by diagonally crossing the middle island of the tray.

2 Leave the splitter tray on the outer tray entry marked as “1” and enter the above splice tray directly through the inner tray entry located at the hinge, marked as “2”

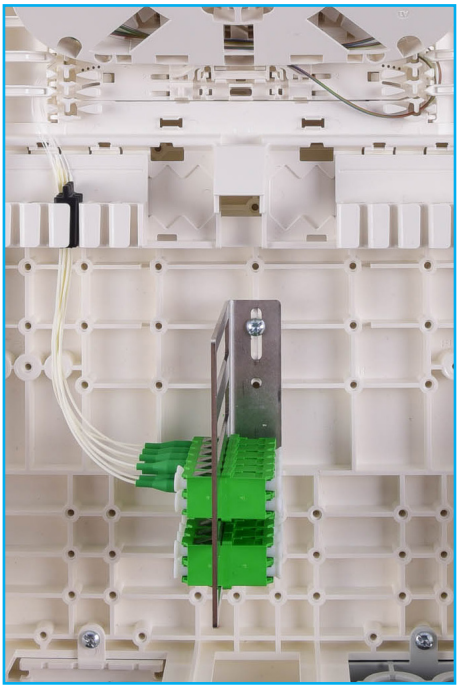
6.2 Route splitter output

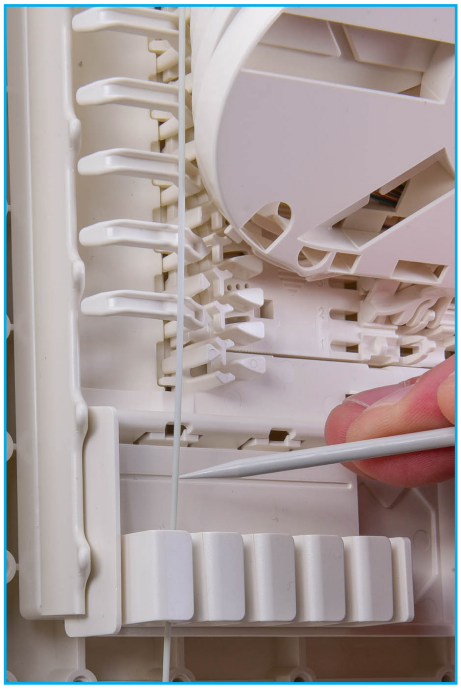




Note: When routing the splitter outputs from the splitter tray to the splice tray, make sure to respect the maximum bend radius of the fibers by routing them downwards first. Use the last fiber channel at the bottom to enter the side channel before routing them upwards again and enter their dedicated splice tray.

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7 Install 900µm pigtails



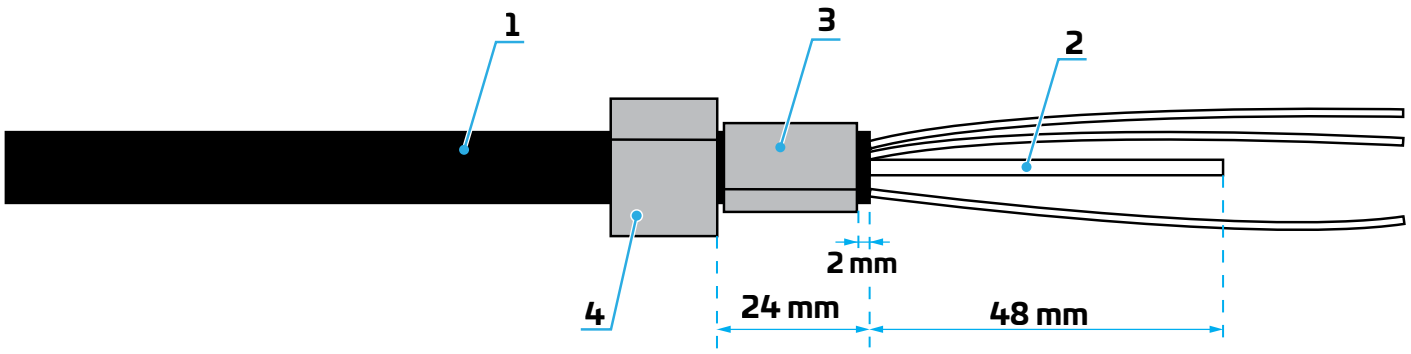




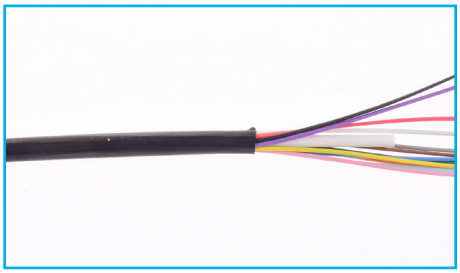
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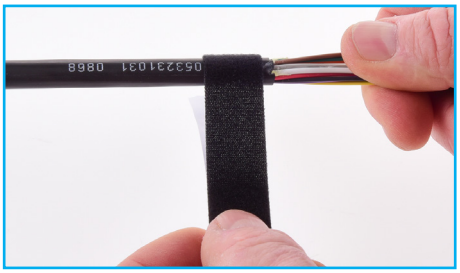
8 Feeder cable

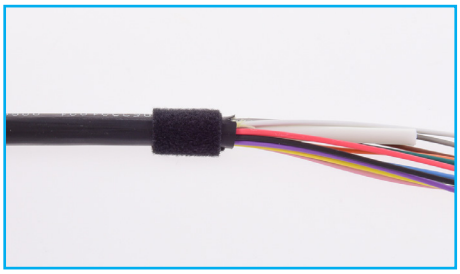
8.1 Feeder cable preparation

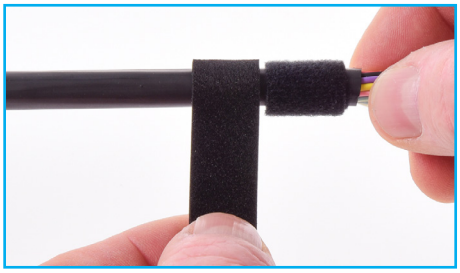


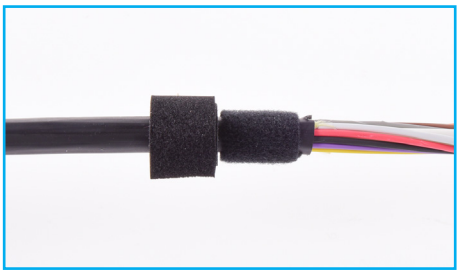
N°	Description	Preparation
1	Jacket	Remove 1.5 m from the jacket of the cable.
2	Rigid strength member	Cut the strength member to a length of 48 mm.
3	Protection tape	Wrap a piece of protection tape around the cable jacket at a distance of 2 mm from the jacket end.
4	Foam	Cut a piece of foam (length according to **Table 1: Foam length**). 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.



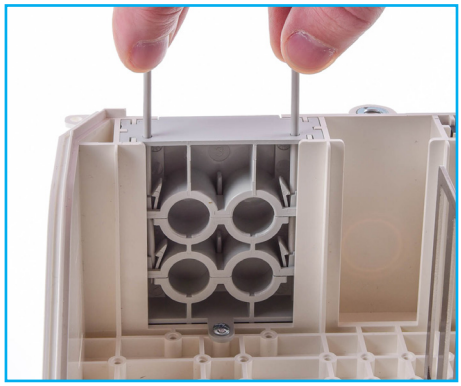


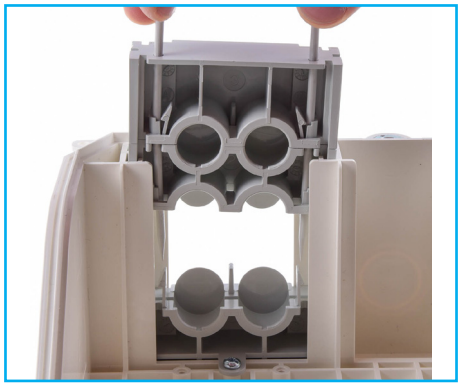


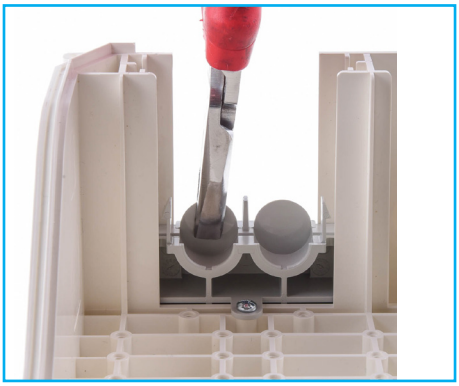




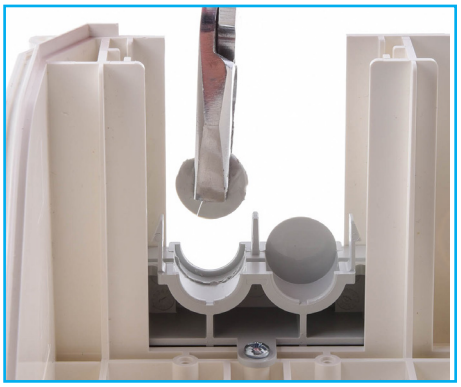
8.2 Feeder cable installation

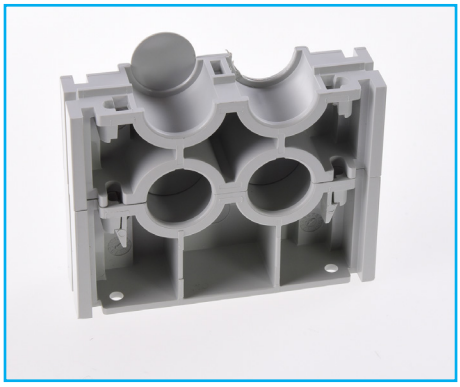
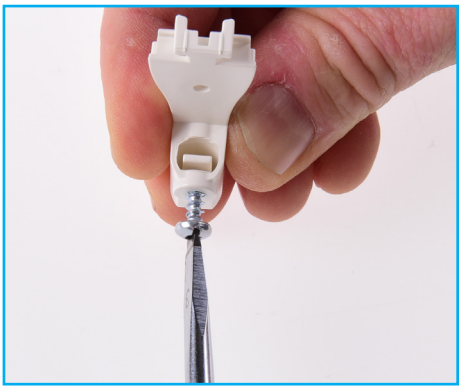
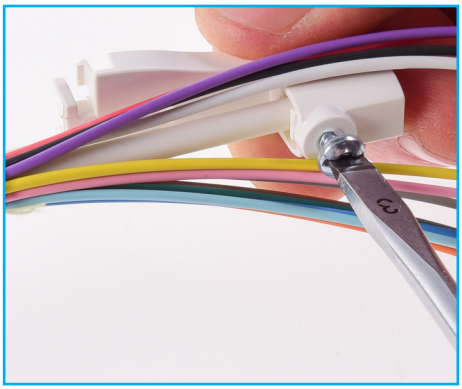
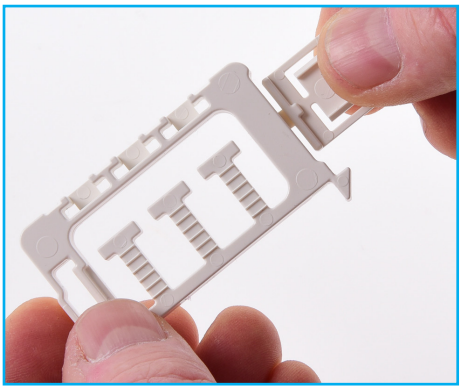
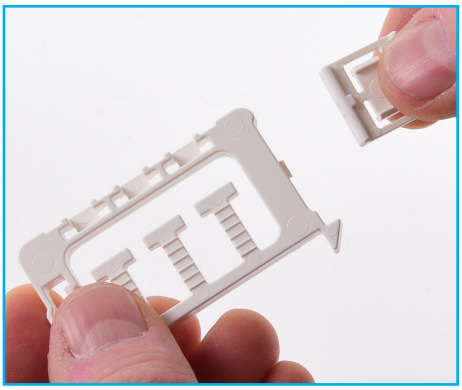
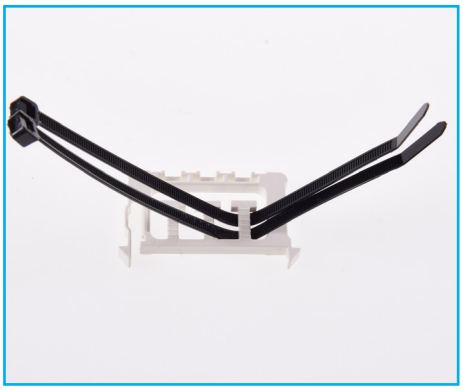
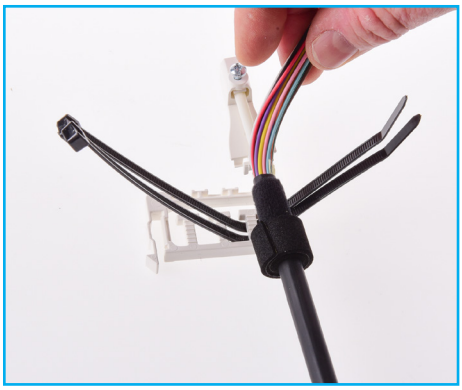
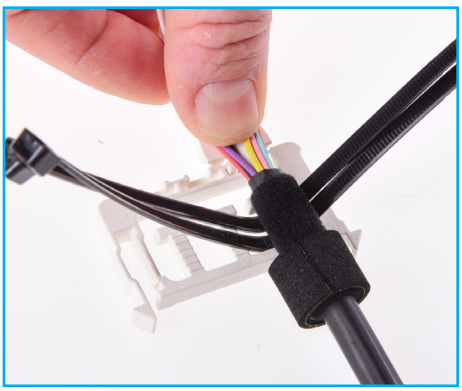
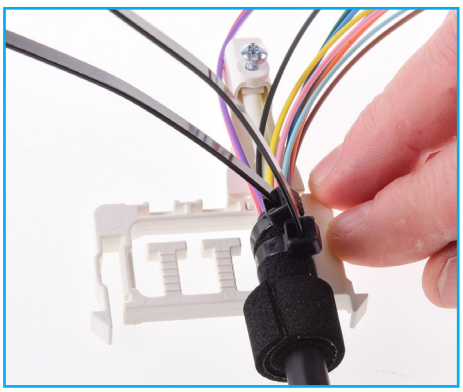
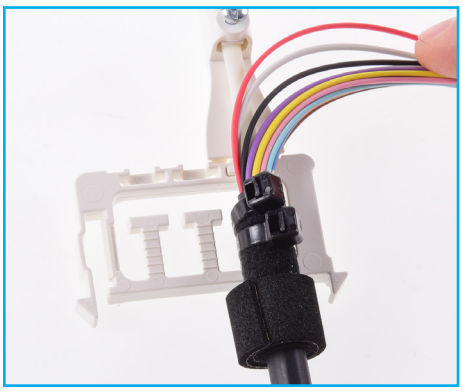
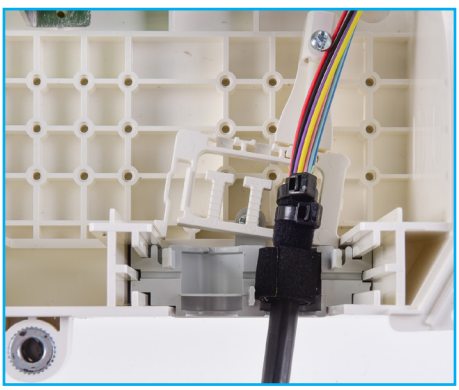
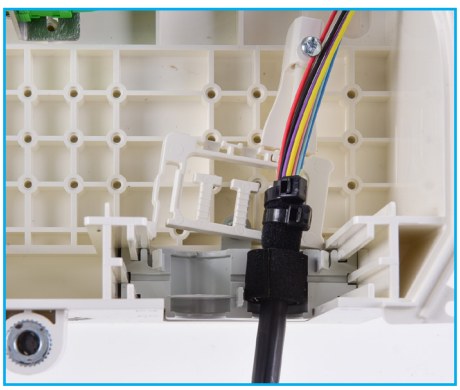
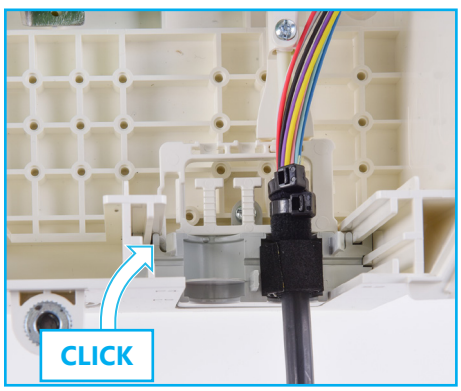




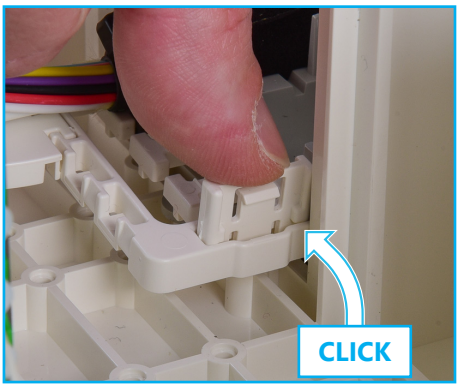


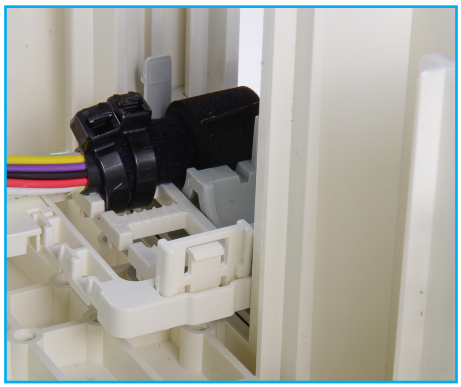
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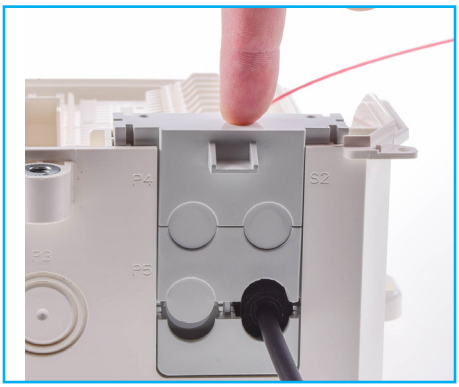


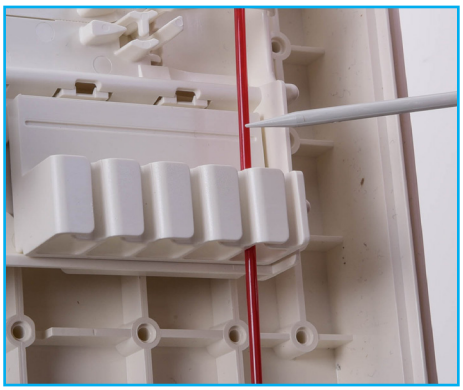
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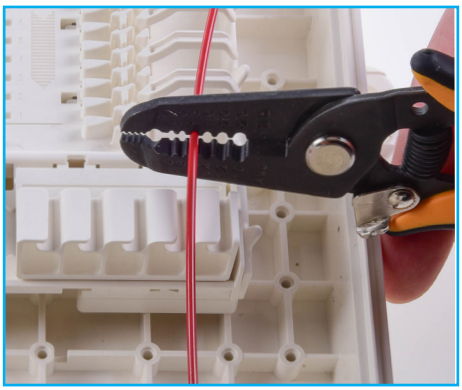


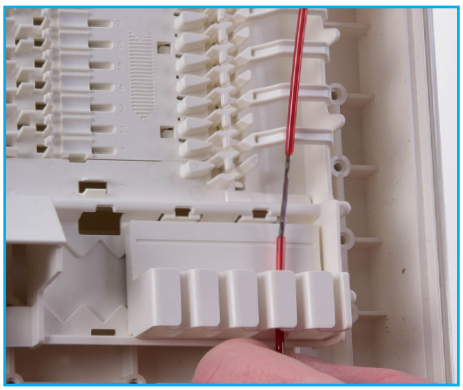




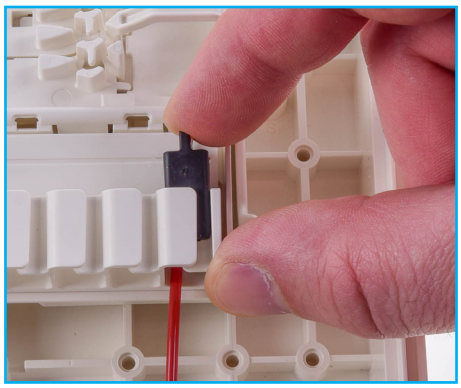
8.3 Route feeder fibers to tray

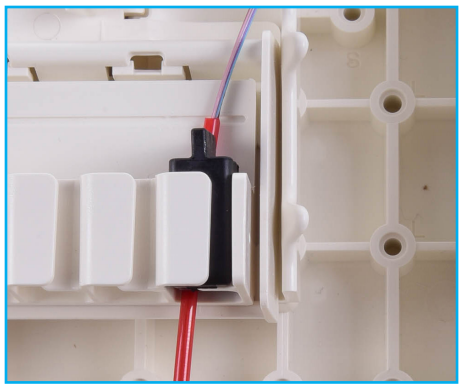


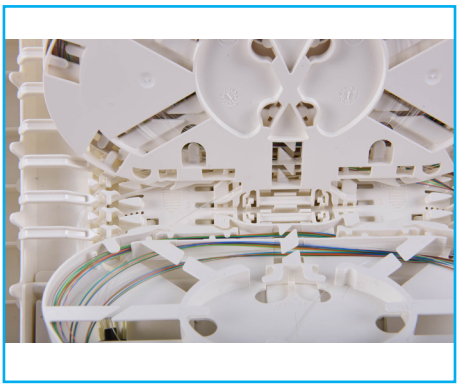


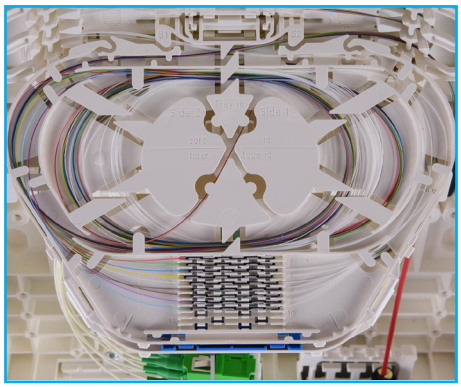










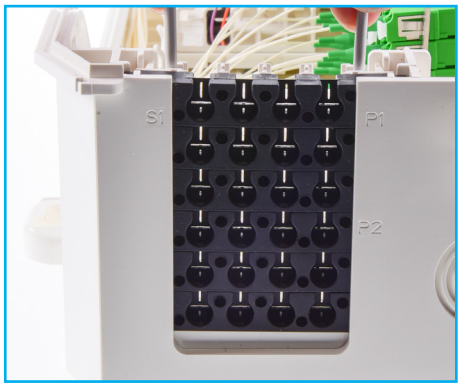


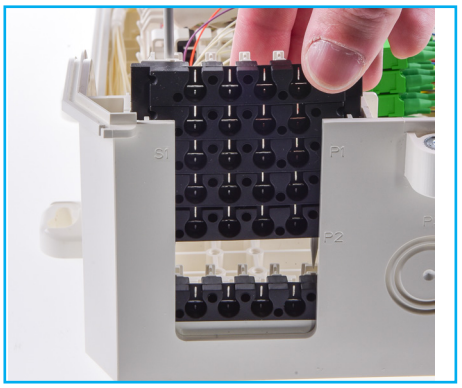
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9 Drop cable

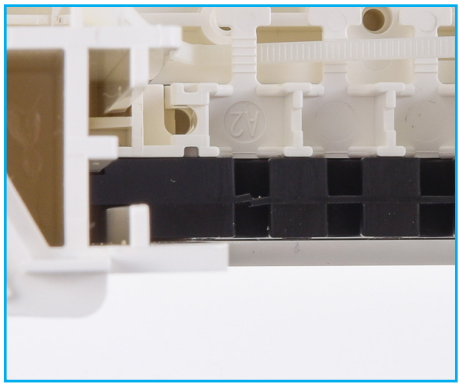
9.1 Drop cable installation

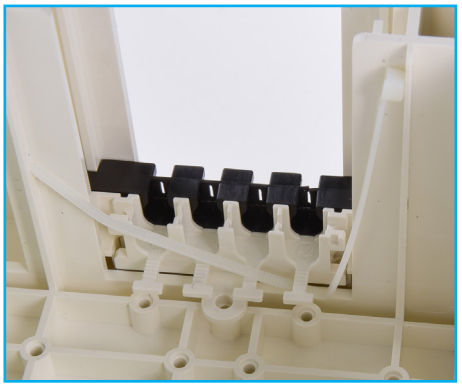


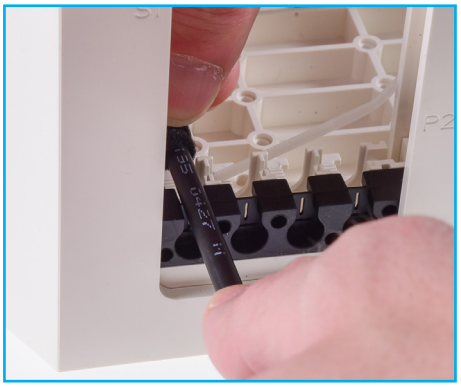


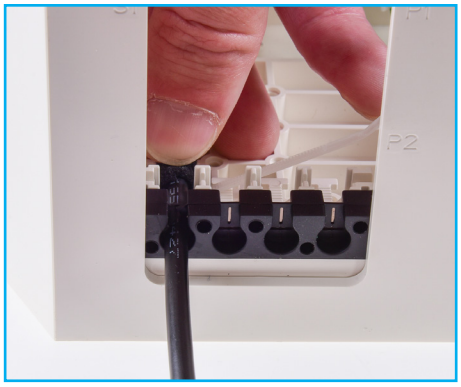


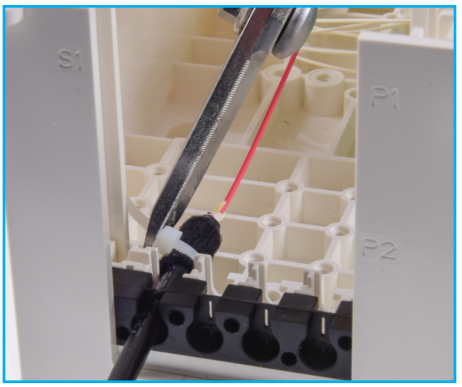


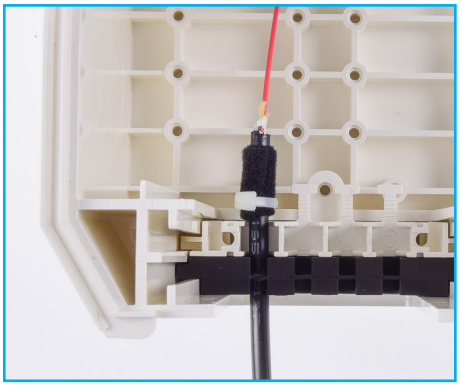




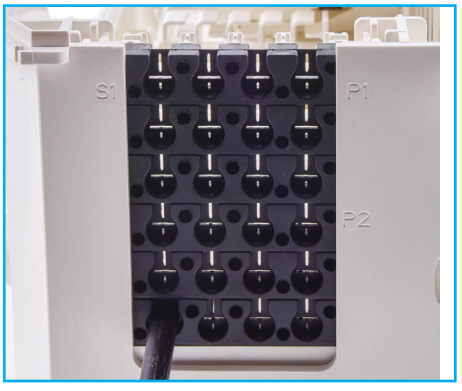






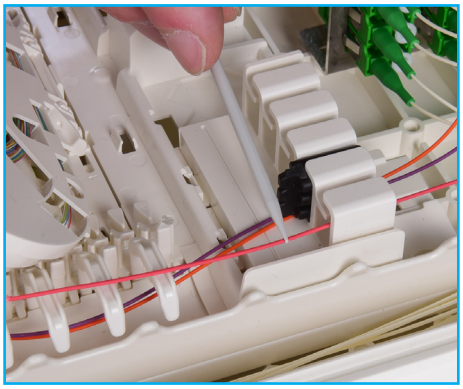
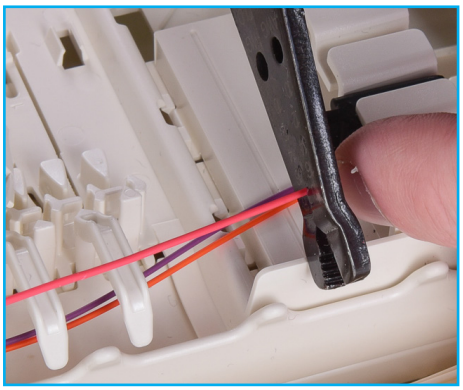
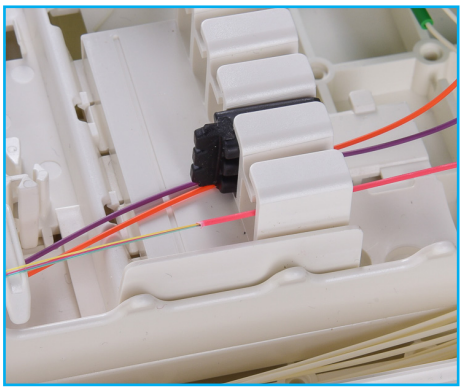
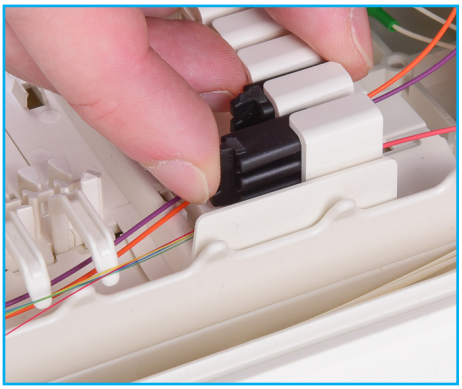
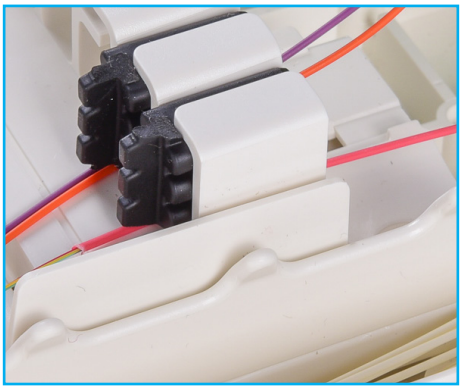
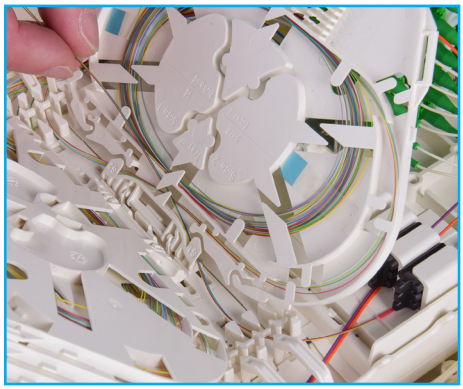
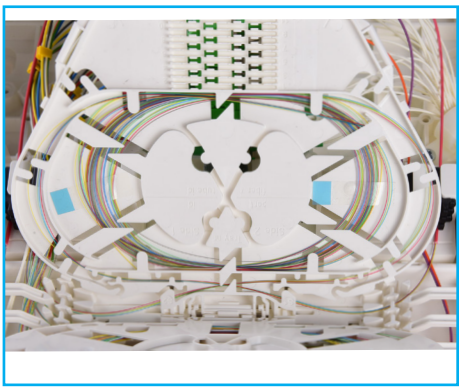






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9.2 Route drop fibers to tray

10 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.

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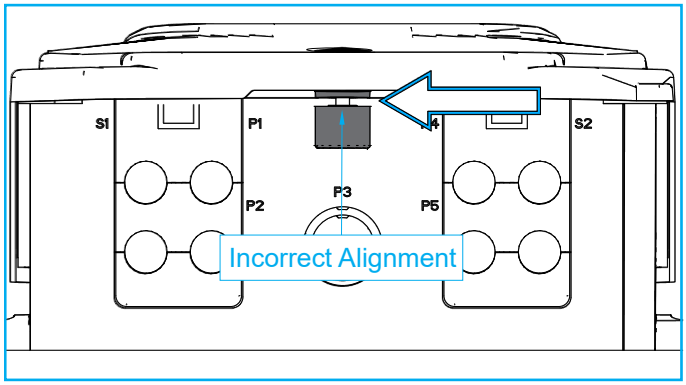
11 Close the Box

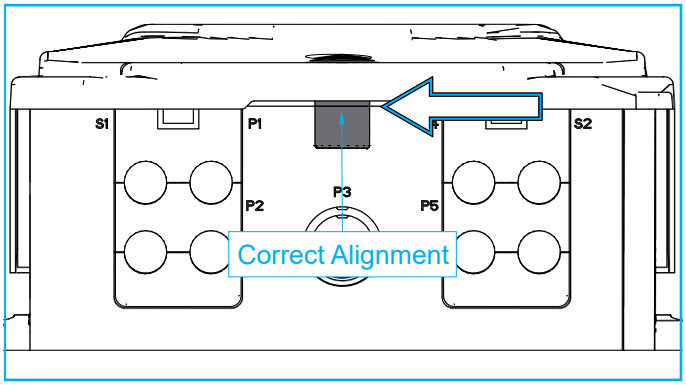
🖉 ***Note:*** Use a blindplate in case of an un-used seal port.

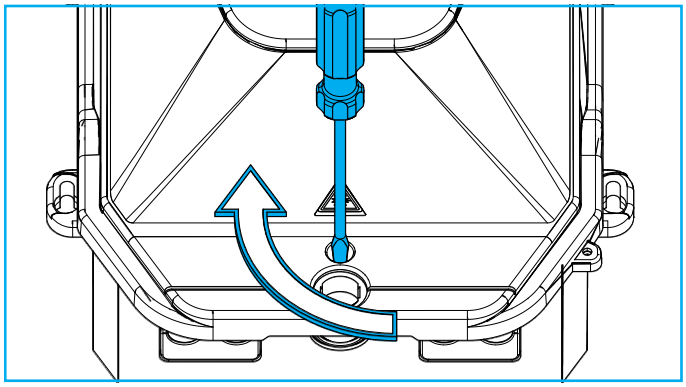
❗ ***Caution:*** Ensure all cables are properly positioned inside the box to avoid damaging them when closing the cover.

❗ ***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 clockwise.

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