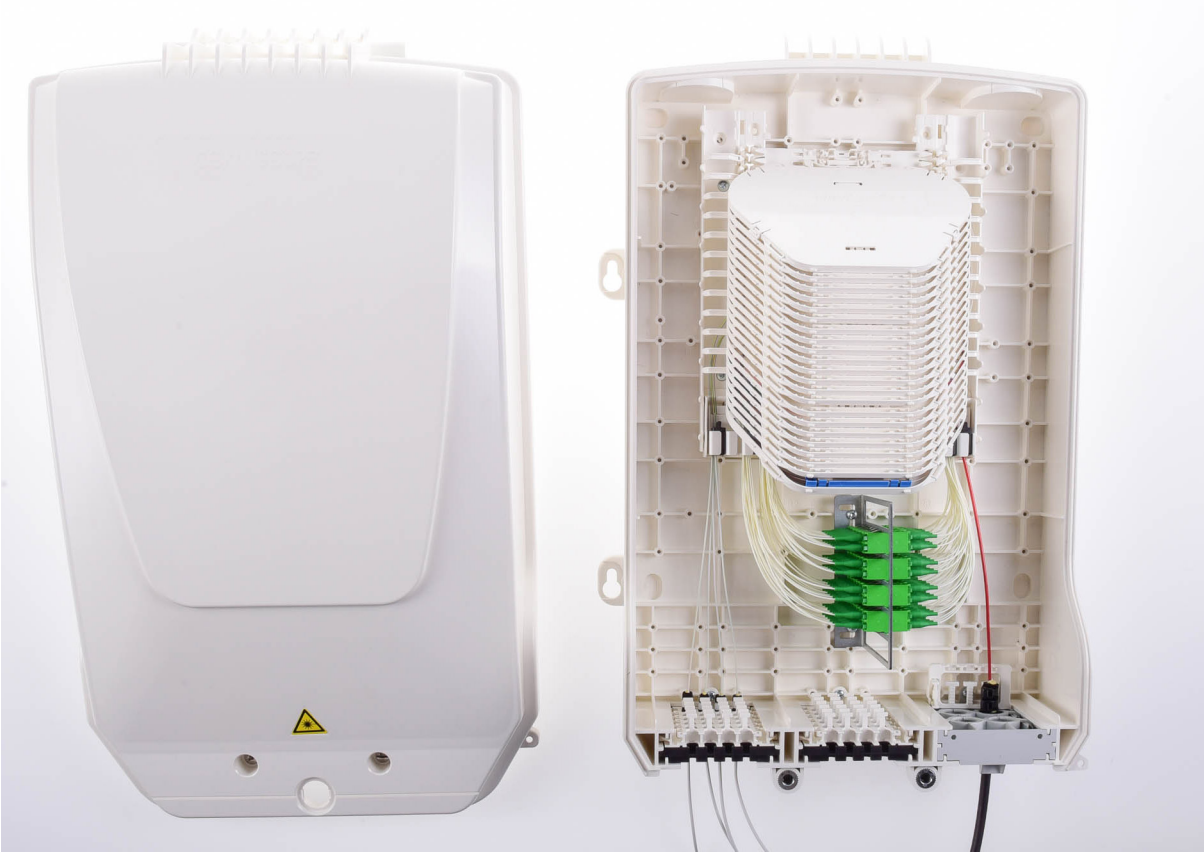
M / L / XL / XXL - IFEB40

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.
Images in this manual are for reference only and do not always show the actual configuration.
Always refer to the section “5.4 Layout” on page 5 for the actual configuration.

2 Product image



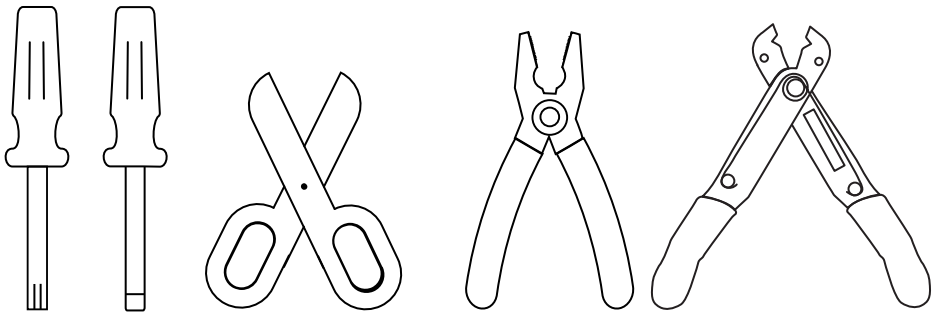
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Contents

1 About this manual 1
2 Product image 1
3 Tools 3
4 Warnings and cautions 3
5 IFEB preparation 3
5.1 Open the box 3
5.2 Install trays 4
5.3 Install adapters 4
5.4 Layout 5
5.4.1 OXG HÜP size M 5
5.4.2 OXG HÜP size L 5
5.4.3 OXG HÜP size XL 6
5.4.4 OXG HÜP size XXL 6
5.5 Seals 7
6 Install splitters 8
6.1 Route splitter input 8
6.2 Route splitter output 8
7 Install 900µm pigtails 9
8 Feeder cable 10
8.1 Feeder cable preparation 10
8.2 Feeder cable installation 10
8.3 Route feeder fibers to tray 12
9 Drop cable 13
9.1 Drop cable installation 13
9.2 Route drop fibers to tray 14
10 Splicing 15
11 Close the Box 15
12 Disclaimer 15
13 Contact information 15

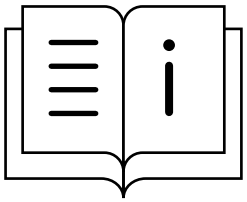
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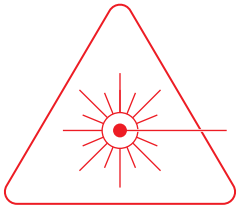
3 Tools

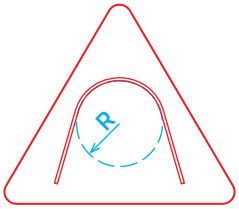


From left to right:
- Torx screwdriver
- Phillips screwdriver
- Scissors
- Pliers
- Stripping pliers

4 Warnings and cautions



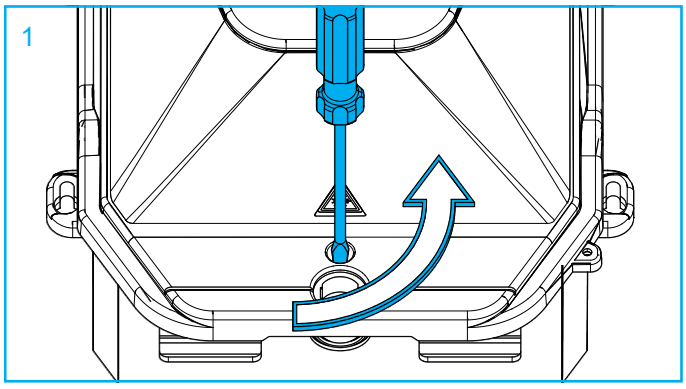


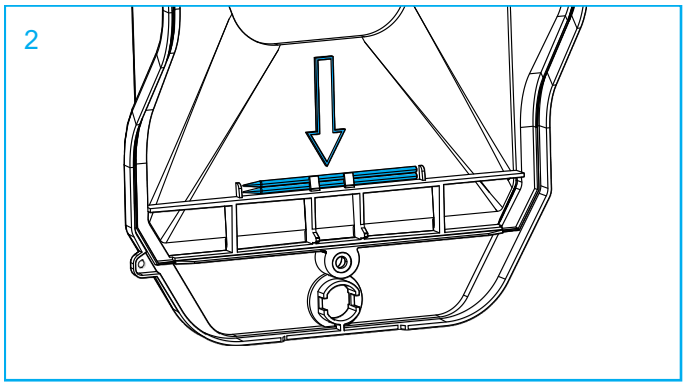


- Follow the installation instruction steps to ensure the performance of the closure. It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.
- Exposure to laser radiation can seriously damage the retina of the eye. Do not look into the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



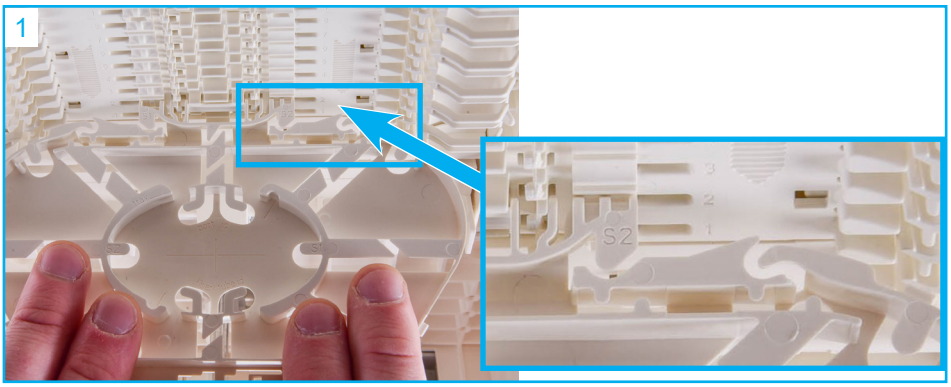


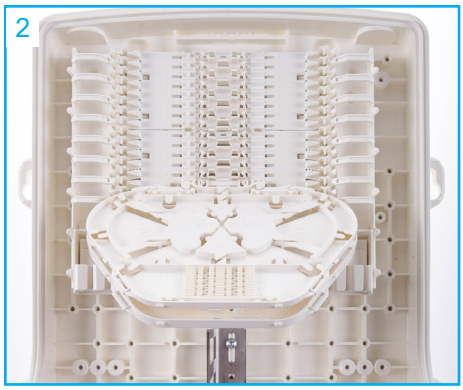
1 Open the box.

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

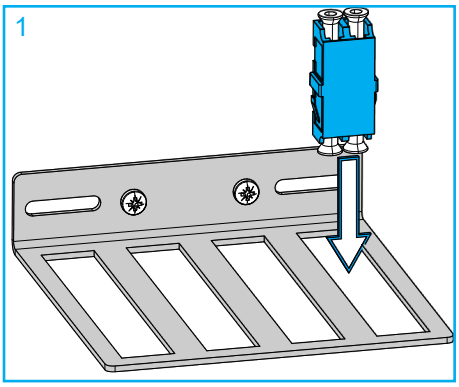


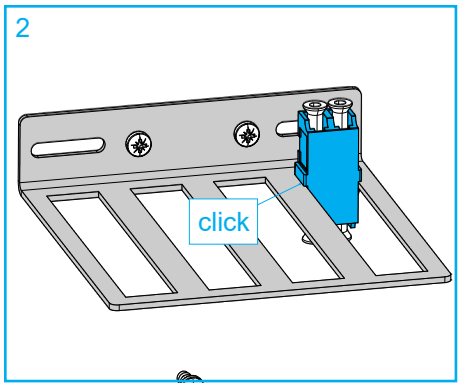


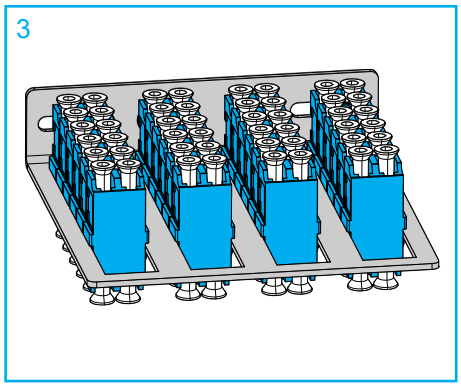
1 Install the splitter tray in the second position from the bottom.

2 Install the remaining splice trays, stacking them upwards.

5.3 Install adapters



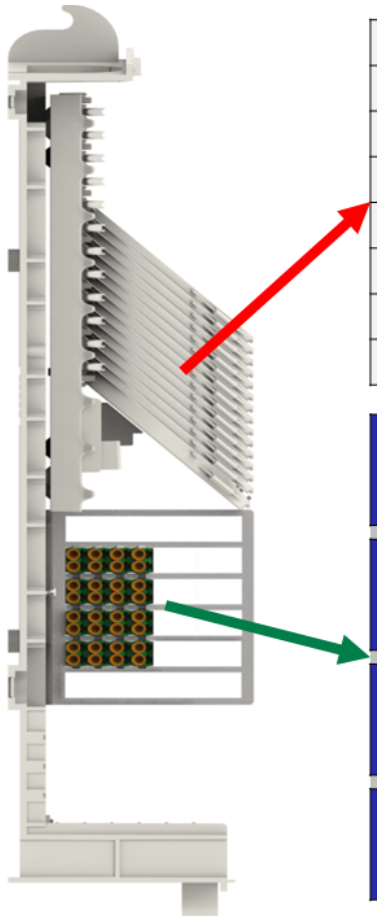




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5.4 Layout

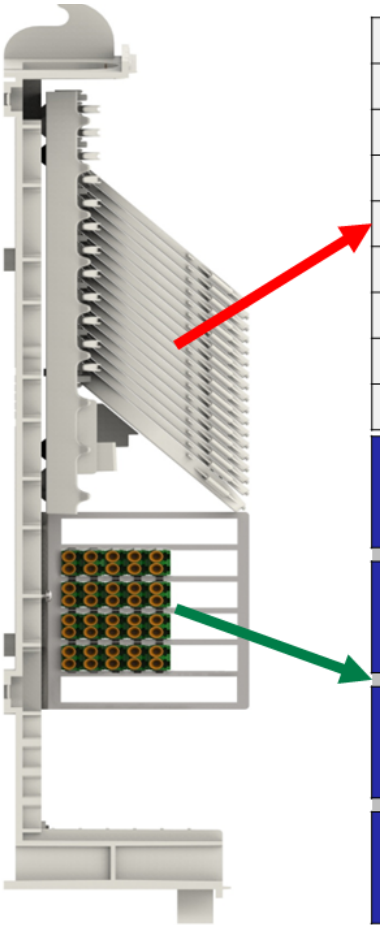
5.4.1 OXG HÜP size M



14 - NE4 Kassette für **WE 31**, 4 Fasern pro WE, 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 & 3, 13 – 16 & 17 – 24**
2 - Kassette für **Splitter OUT** Fasern **Splitter 1 & 2, 1 – 8 & 9 – 12**
1 - **NE3 Kassette** für 12 Fasern, 3x Splitter IN + ungesplittete Fasern **WE 25 - 31**
0 - **Splitterkassette** für 3x 1:8 Splitter

1A 1B	5A 5B	9A 9B	13A 13B
2A 2B	6A 6B	10A 10B	14A 14B
3A 3B	7A 7B	11A 11B	15A 15B
4A 4B	8A 8B	12A 12B	16A Frei

5.4.2 OXG HÜP size L

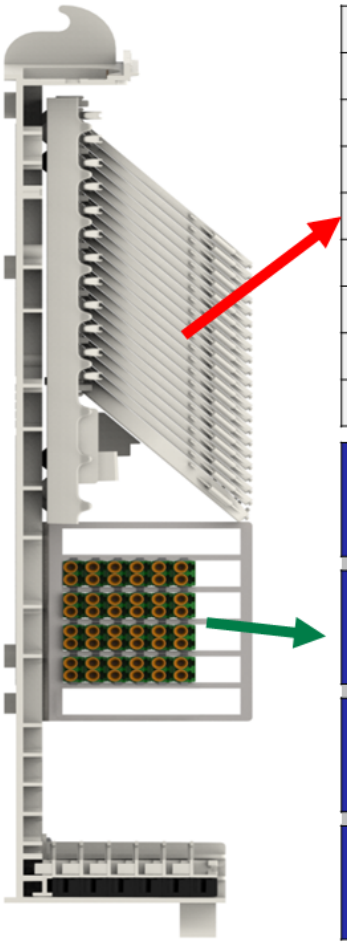


17 - NE4 Kassette für **WE 37 - 39**, 4 Fasern pro WE, Faser 1 auf Pigtail spleissen
...
6 - NE4 Kassette für **WE 4 – 6**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
5 - NE4 Kassette für **WE 1 – 3**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
4 - Kassette für **Splitter OUT** Fasern **25 – 32**
3 - Kassette für **Splitter OUT** Fasern **13 – 24**
2 - Kassette für **Splitter OUT** Fasern **1 – 12**
1 - **NE3 Kassette** für 12 Fasern, 1x Splitter IN + ungesplittete Fasern **WE 33 - 39**
0 - **Splitterkassette** für 1:32 Splitter

1A 1B	5A 5B	9A 9B	13A 13B	17A 17B
2A 2B	6A 6B	10A 10B	14A 14B	18A 18B
3A 3B	7A 7B	11A 11B	15A 15B	19A 19B
4A 4B	8A 8B	12A 12B	16A Frei	20A Frei

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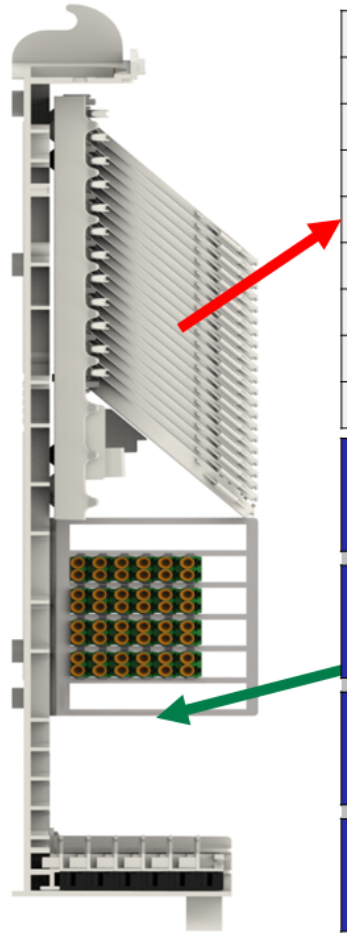
5.4.3 OXG HÜP size XL



21 - NE4 Kassette für **WE 46 – 47,** 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
…
6 - NE4 Kassette für **WE 1 – 3**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
5 - Kassette für **Splitter OUT** Fasern **Splitter 2, 36 – 40**
4 - Kassette für **Splitter OUT** Fasern **Splitter 1, 25 – 32** & **Splitter 2, 33 - 36**
3 - Kassette für **Splitter OUT** Fasern **Splitter 1, 13 – 24**
2 - Kassette für **Splitter OUT** Fasern **Splitter 1, 1 – 12**
1 - **NE3 Kassette** für 12 Fasern, 2x Splitter IN + ungesplittete NE3 Fasern **WE 41 - 47**
0 - **Splitterkassette** für 1:32 Splitter + 1x 1:8 Splitter

1A	5A	9A	13A	17A	21A
1B	5B	9B	13B	17B	21B
2A	6A	10A	14A	18A	22A
2B	6B	10B	14B	18B	22B
3A	7A	11A	15A	19A	23A
3B	7B	11B	15B	19B	23B
4A	8A	12A	16A	20A	24A
4B	8B	12B	Frei	20B	Frei

5.4.4 OXG HÜP size XXL



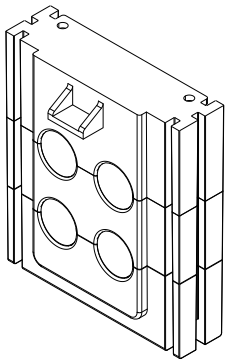
21 - NE4 Kassette für **WE 46 – 48,** 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
…
6 - NE4 Kassette für **WE 1 – 3**, 4 Fasern pro WE, je Faser 1 auf Pigtail spleissen
5 - Kassette für **Splitter OUT** Fasern **Splitter 2, 36 – 40** & **Splitter 3, 41 - 48**
4 - Kassette für **Splitter OUT** Fasern **Splitter 1, 25 – 32** & **Splitter 2, 33 - 36**
3 - Kassette für **Splitter OUT** Fasern **Splitter 1, 13 – 24**
2 - Kassette für **Splitter OUT** Fasern **Splitter 1, 1 – 12**
1 - **NE3 Kassette** für 12 Fasern, 3x Splitter IN
0 - **Splitterkassette** für 1:32 Splitter + 2x 1:8 Splitter

1A	5A	9A	13A	17A	21A
1B	5B	9B	13B	17B	21B
2A	6A	10A	14A	18A	22A
2B	6B	10B	14B	18B	22B
3A	7A	11A	15A	19A	23A
3B	7B	11B	15B	19B	23B
4A	8A	12A	16A	20A	24A
4B	8B	12B	Frei	20B	24B

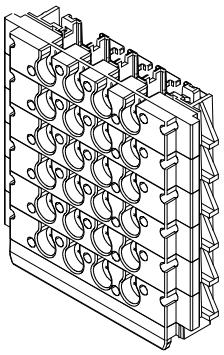
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5.5 Seals

1



2



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

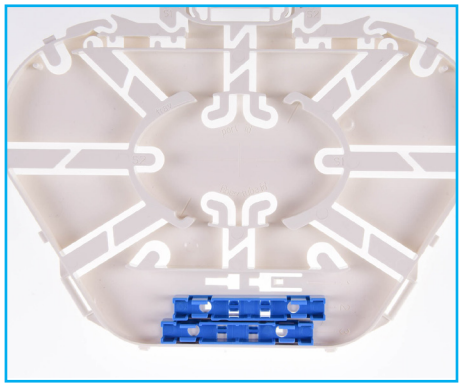
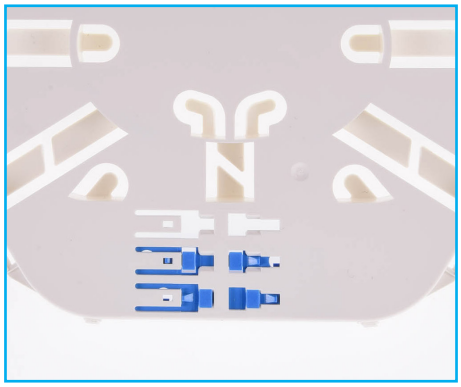
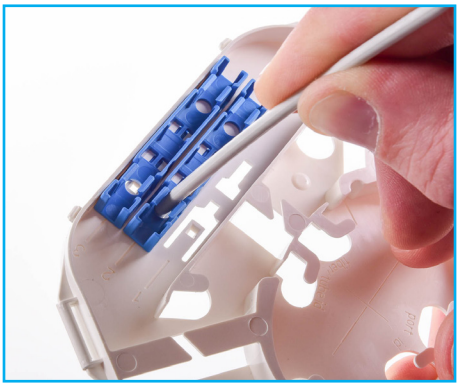
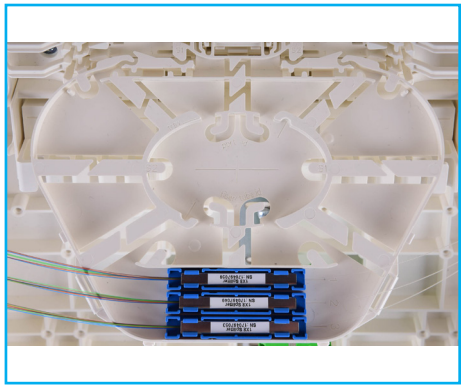
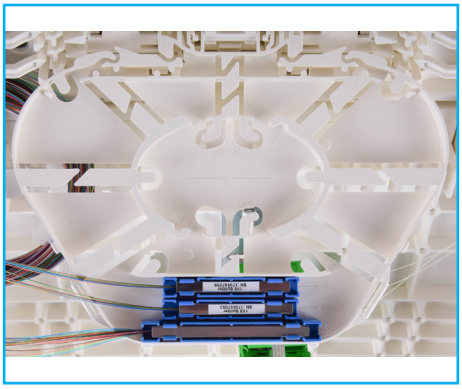
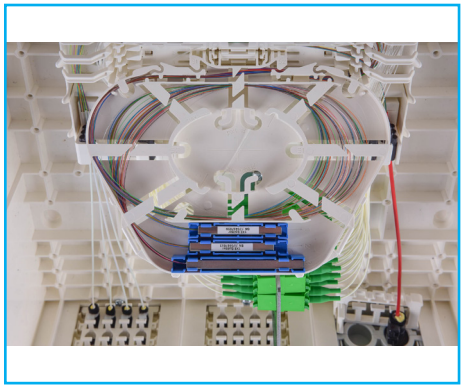
📝 ***Note:*** Install foam to thicken cable to seal the port:

Table 1 :Foam length per cable diameter

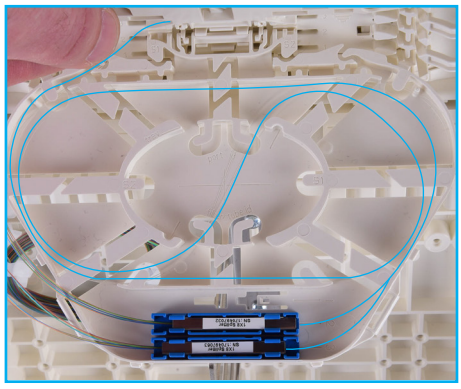
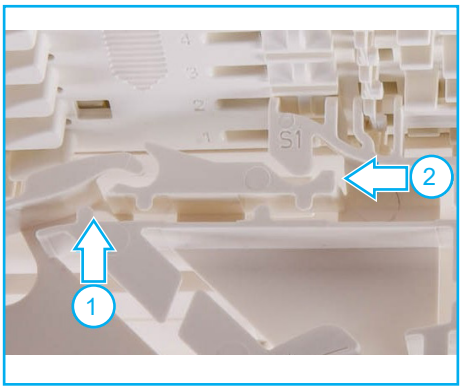
Sealblock 4 x 15mm	
Cable diameter (mm)	**Foam length (±5 mm)**
5	170
6	160
7	150
8	140
9	125
10	115
11	105
12	95
13	85
14	70
15	60

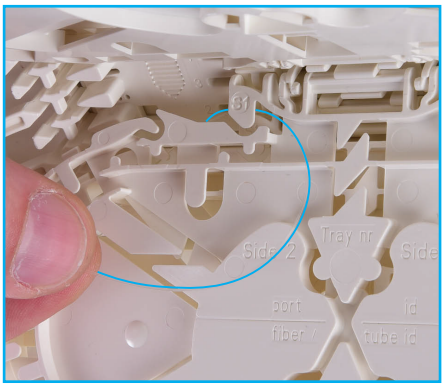
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6 Install splitters

6.1 Route splitter input

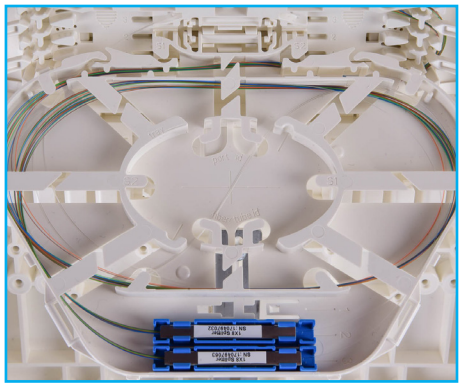
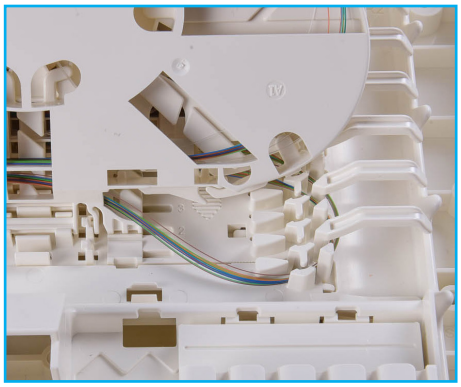
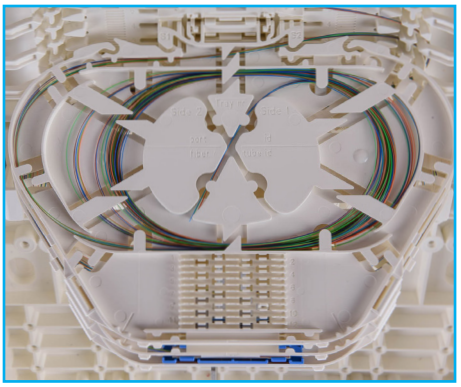





1 When routing the splitter input, change the direction of the fiber by diagonally crossing the middle island of the tray.

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”

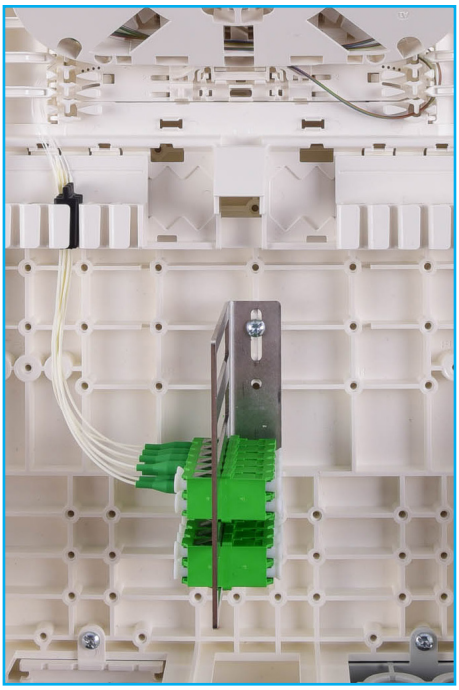
6.2 Route splitter output

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



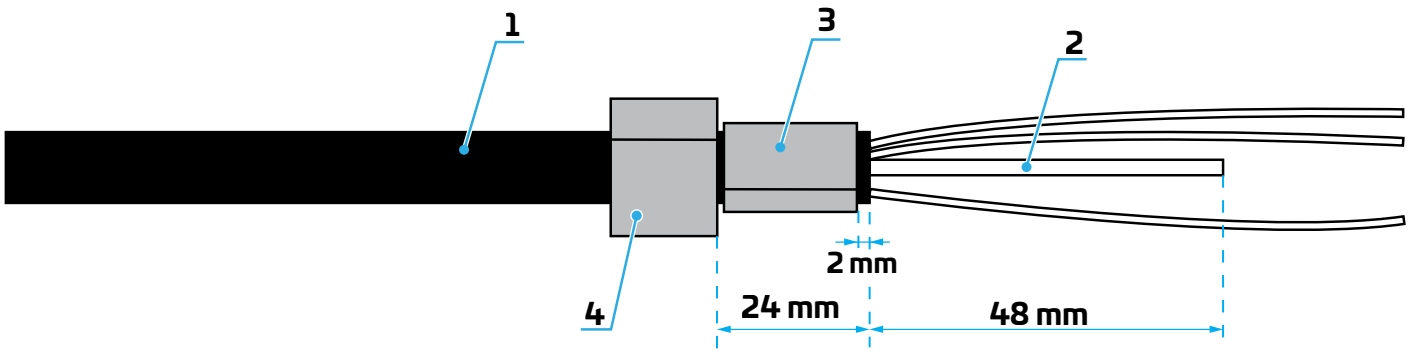




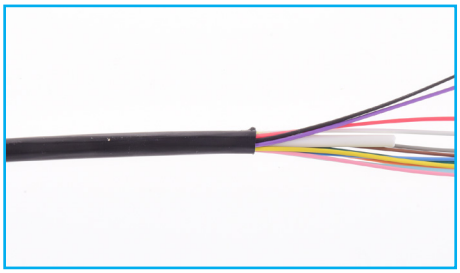
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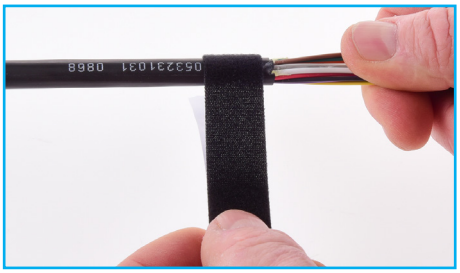
8 Feeder cable

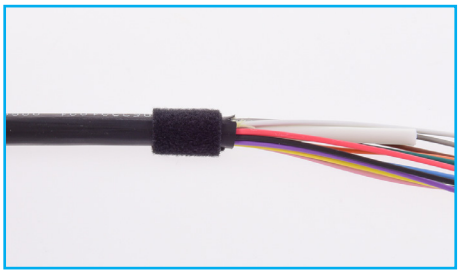
8.1 Feeder cable preparation

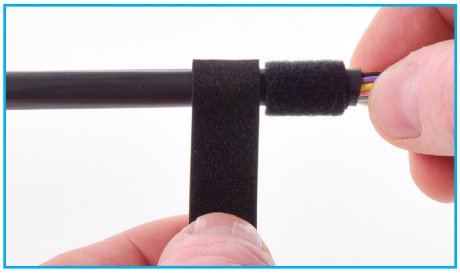


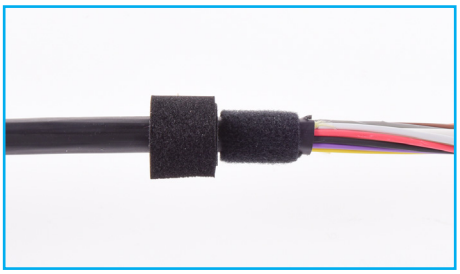
N°	Description	Preparation
1	Jacket	Remove 1.5 m from the jacket of the cable.
2	Rigid strength member	Cut the strength member to a length of 48 mm.
3	Protection tape	Wrap a piece of protection tape around the cable jacket at a distance of 2 mm from the jacket end.
4	Foam	Cut a piece of foam (length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



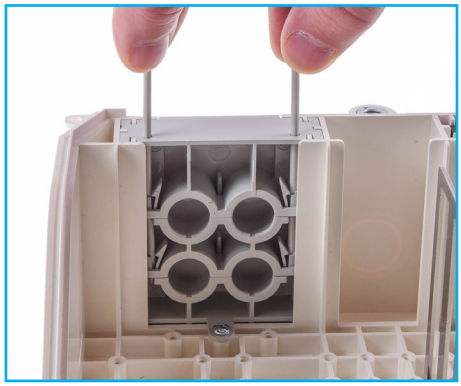


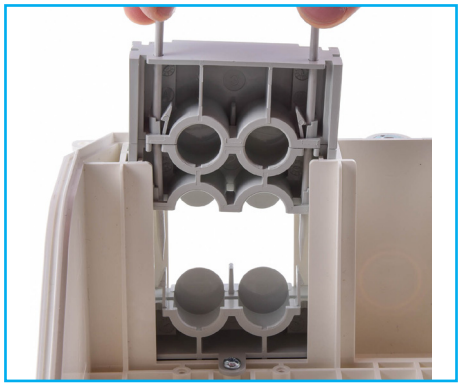


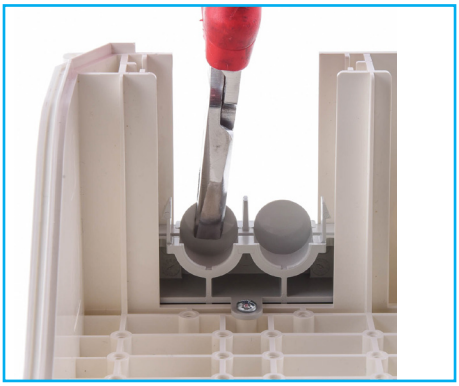




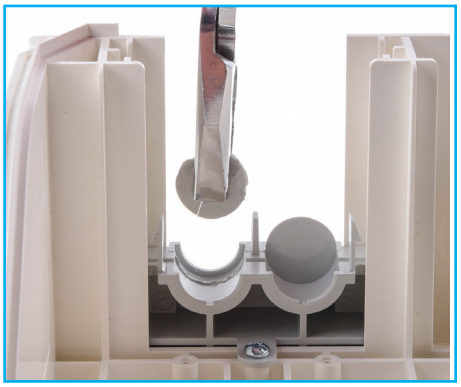
8.2 Feeder cable installation

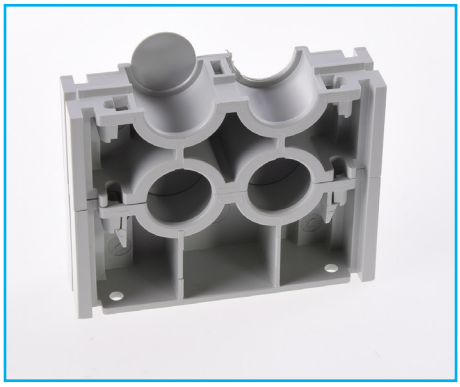
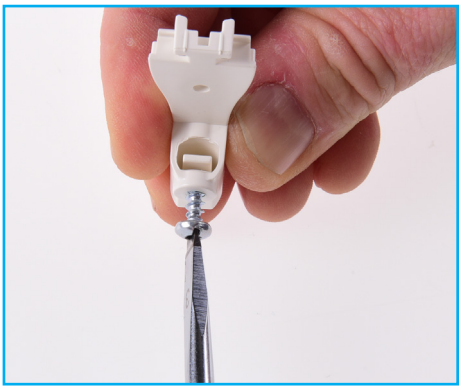
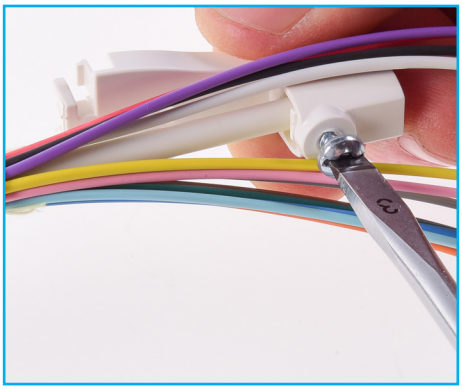
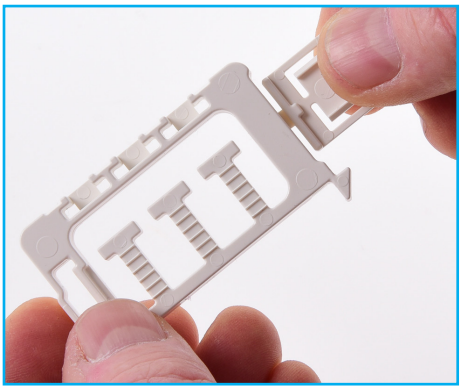
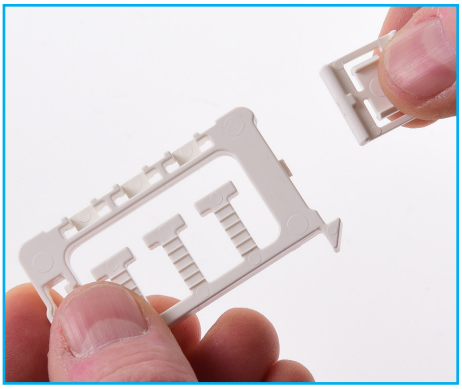
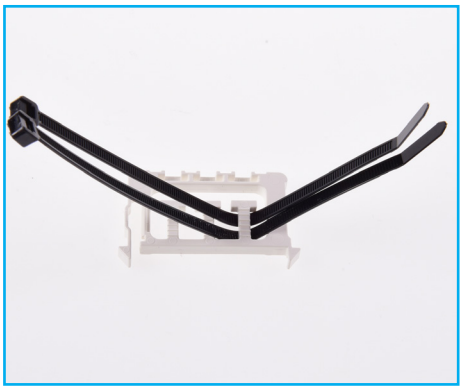
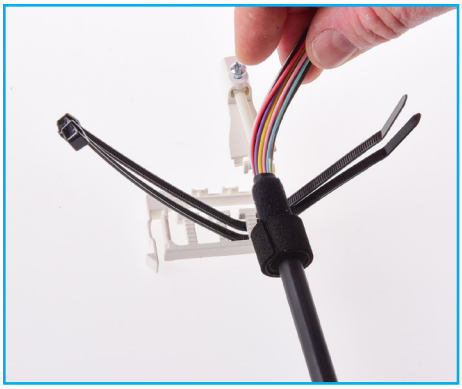
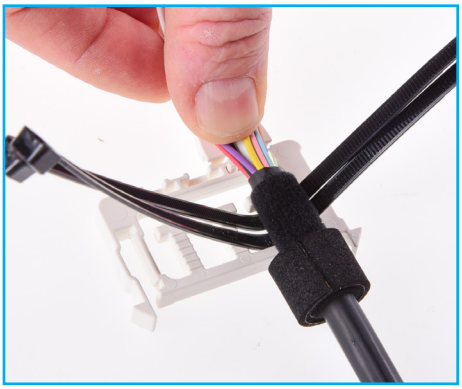
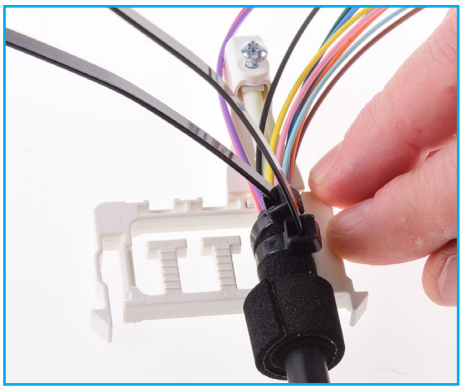
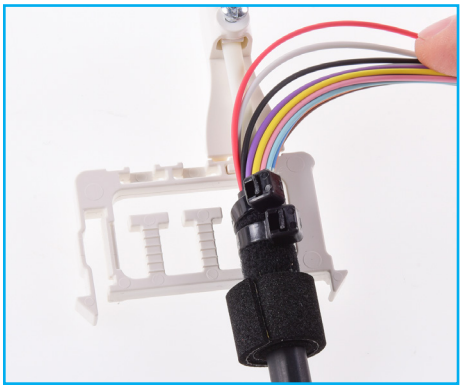
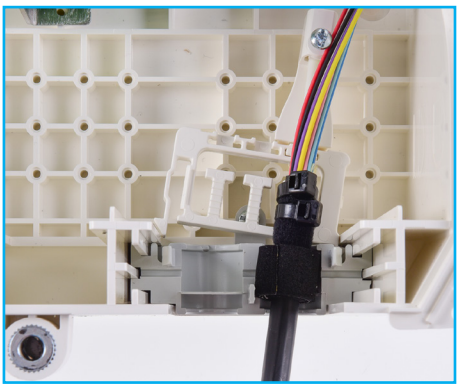
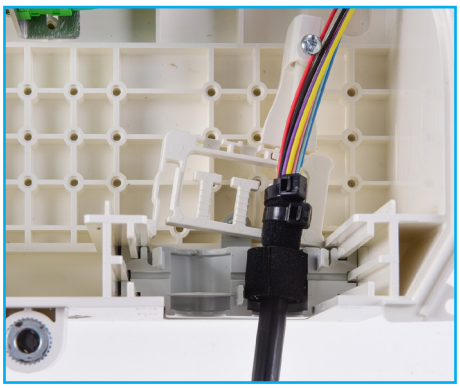
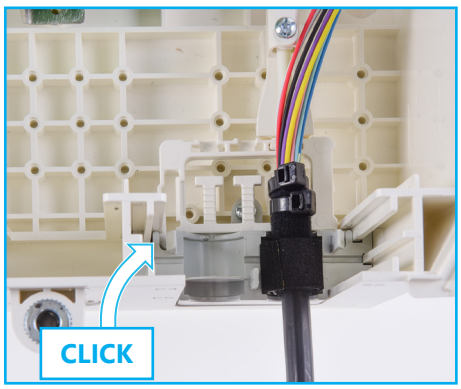




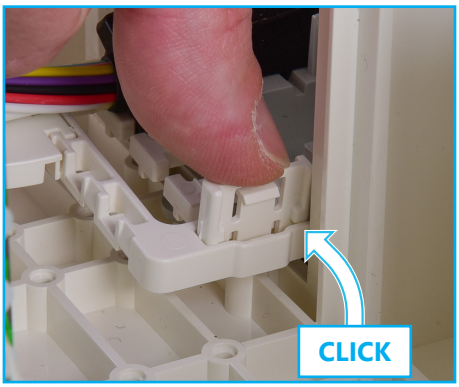


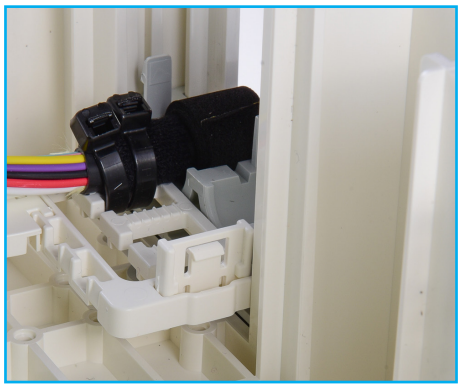
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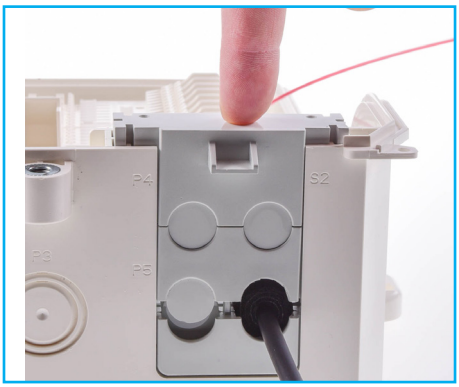


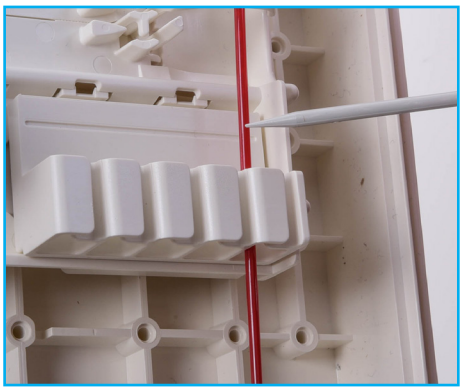
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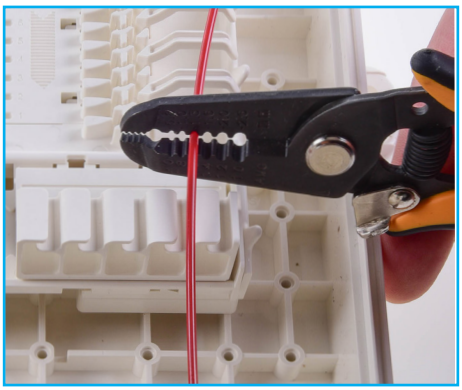


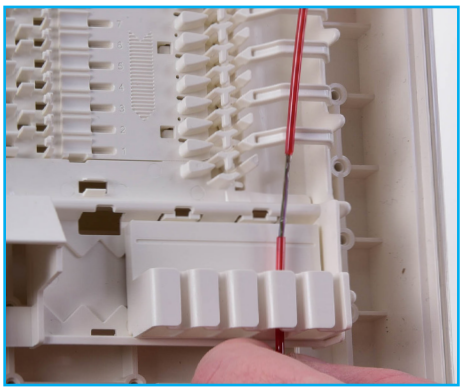




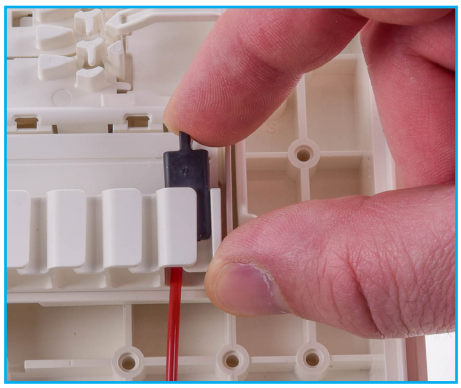
8.3 Route feeder fibers to tray

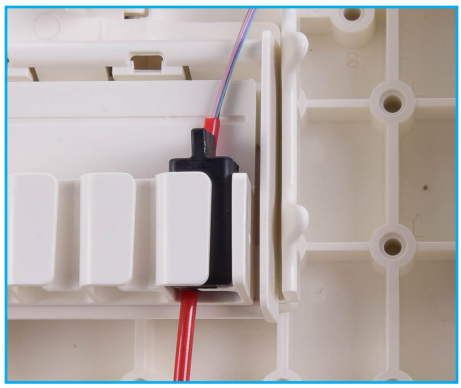


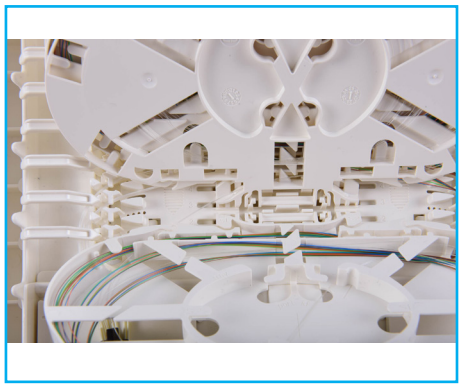


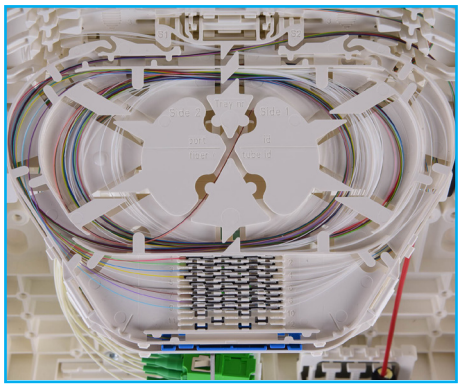










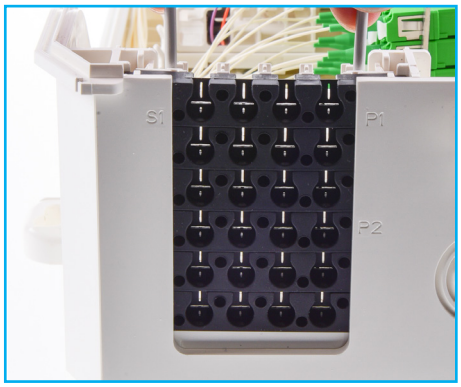


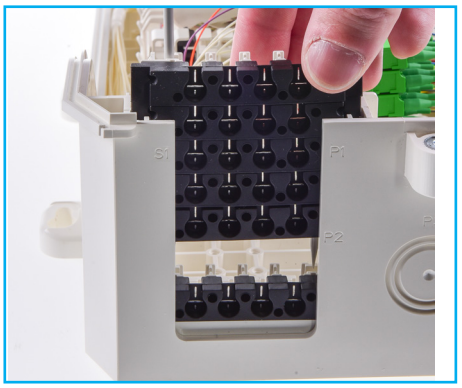
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9 Drop cable

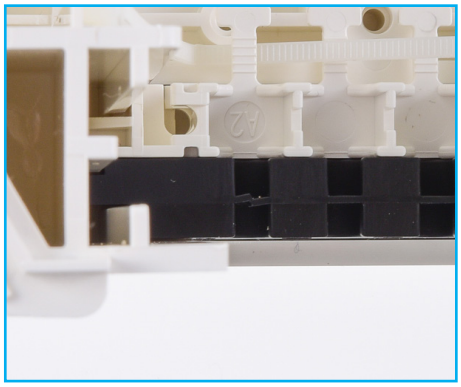
9.1 Drop cable installation

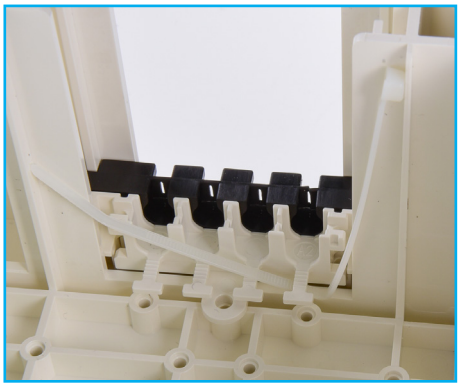


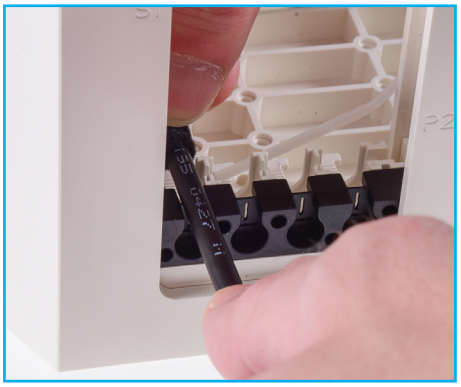


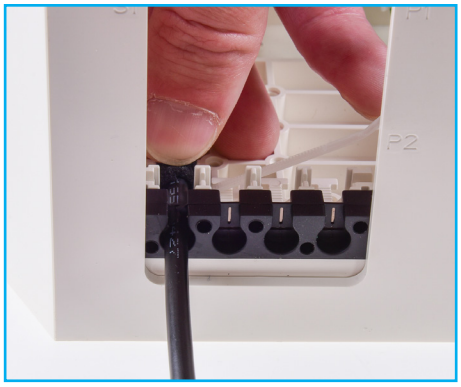


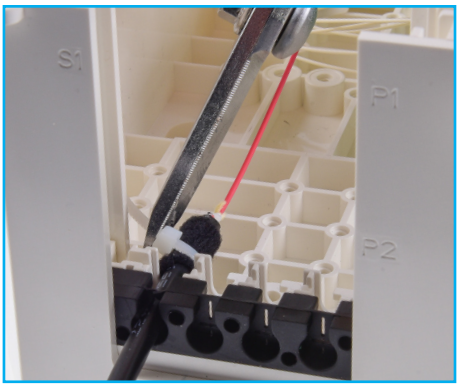


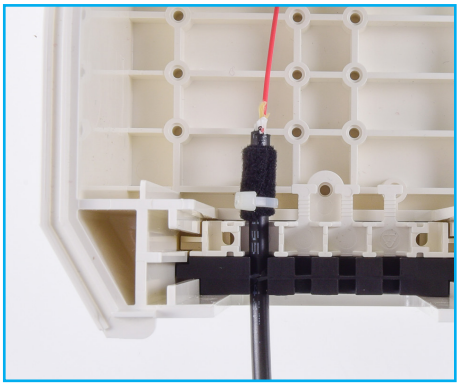




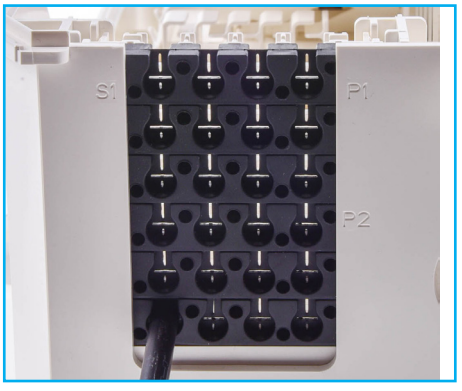






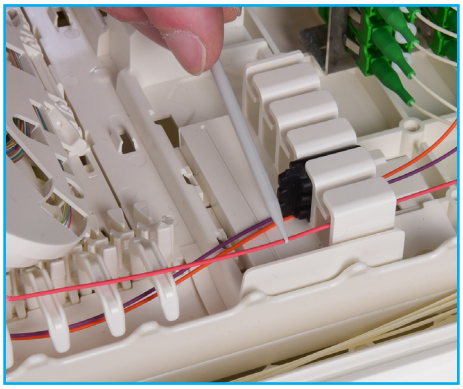
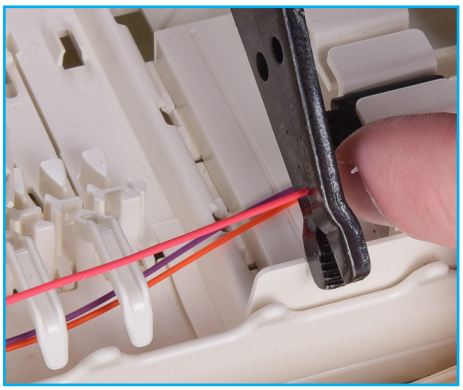
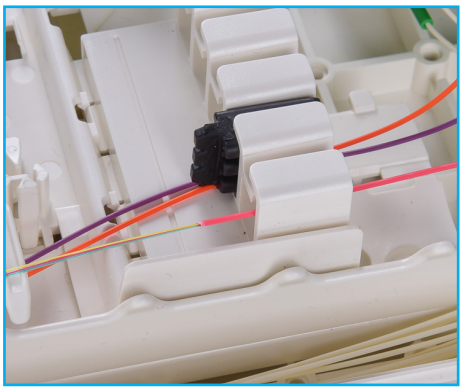
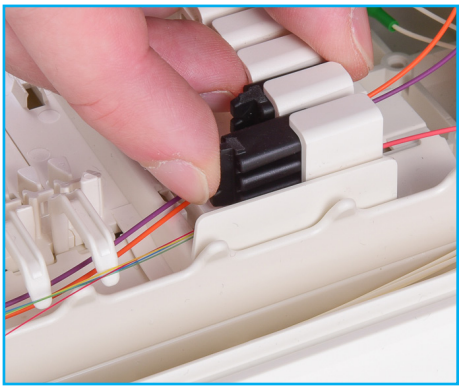
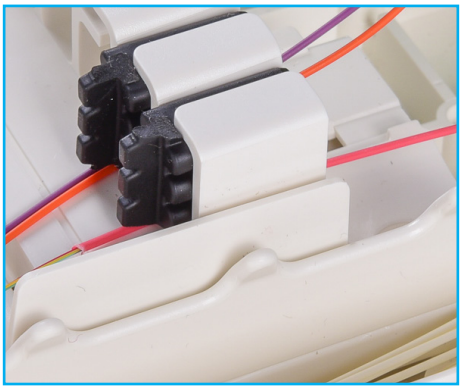


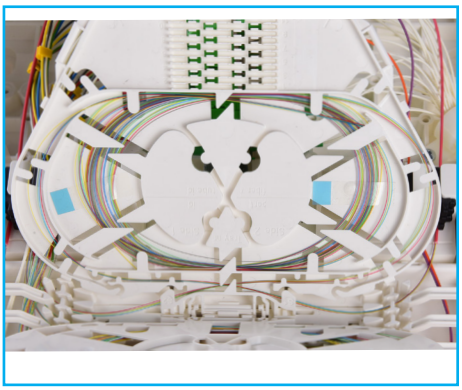
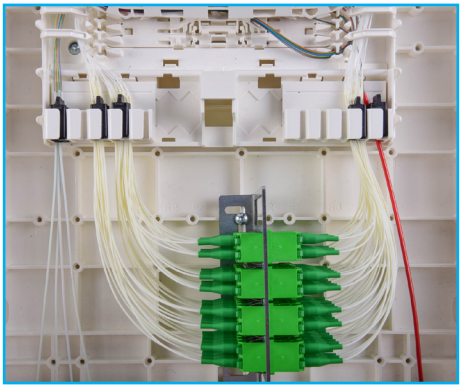
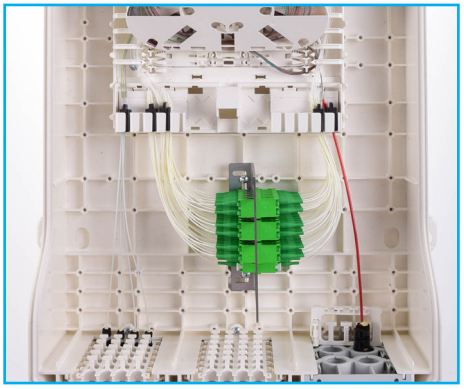
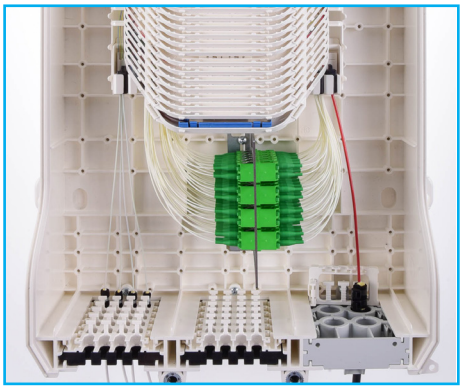




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9.2 Route drop fibers to tray

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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.

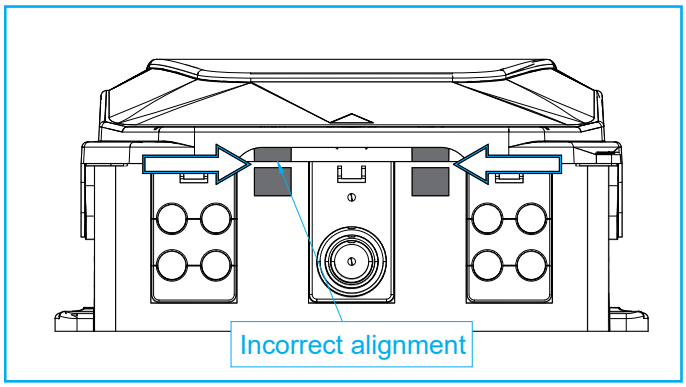
11 Close the Box

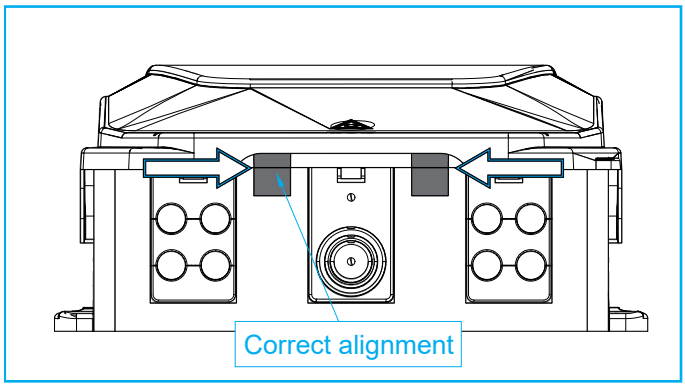
Note: Use a blindplate in case of an un-used seal port.

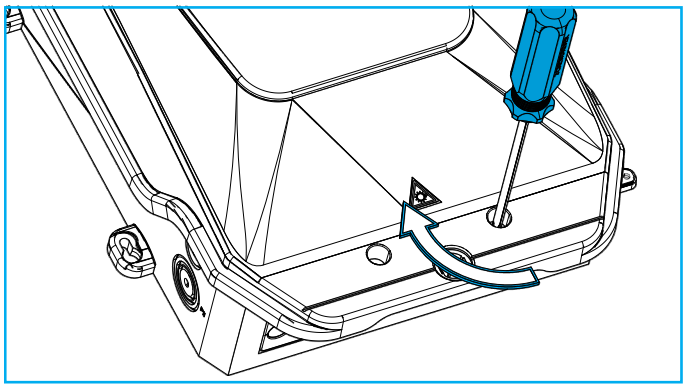
Caution: Ensure all cables are properly positioned inside the box to avoid damaging them when closing the cover.

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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