IFEB30 - Patch application

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.
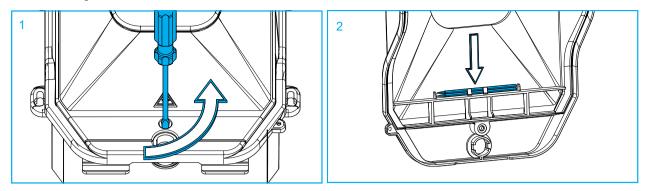
2   Product image

Contents

3   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 into the tray and grooveplate.
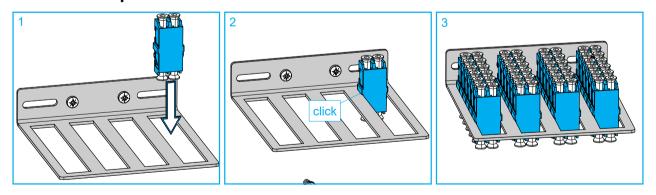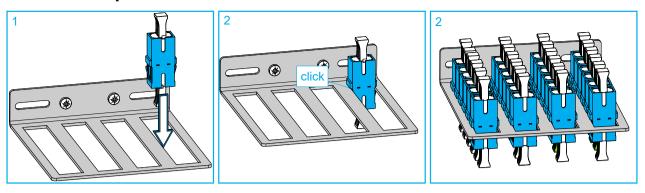
4   Install trays

1   Install the first tray in the bottom position.
2   Lower the tray.
3   Install the remaining trays, stacking them upwards and place the cover on the top tray.
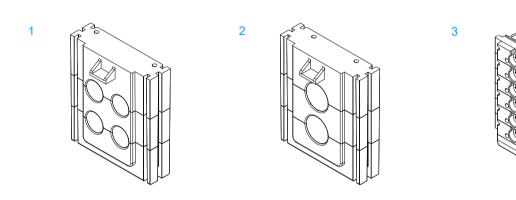
5   Install adapters

5.1   LC adapters

5.2   SC adapters

6   Seals

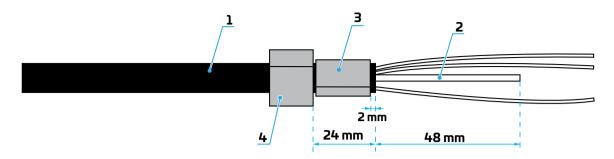| N°	Description
1	Sealblock 4 x 15mm (feeder cable)
2	Sealblock 2 x 20mm (feeder cable)
3	Sealblock 24 x 7mm (drop cable)

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

Table 1: Foam length per cable diameter

Sealblock 4 x 15mm		Sealblock 2 x 20mm	
Cable diameter (mm)	Foam length (±5 mm)	Cable diameter (mm)	Foam length (±5 mm)
5	170	14	155
6	160	15	140
7	150	16	125
8	140	17	110
9	125	18	95
10	115	19	85
11	105	20	70
12	95		
13	85		
14	70		
15	60		

7 Feeder cable

7.1 Feeder cable preparation

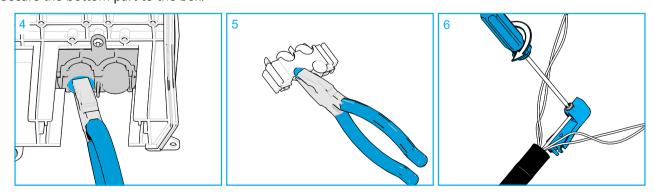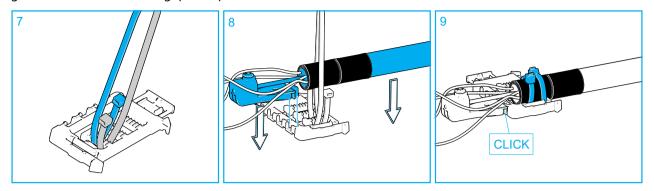| N°	Description	Preparation
1	Jacket	Remove 1.5 m from the jacket of the cable.
2	Rigid strength member	Cut the strength member to a length of 48 mm.
3	Protection tape	Wrap a piece of protection tape around the cable jacket at a distance of 2 mm from the jacket end.
4	Foam	Cut a piece of foam (length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

7.2 Feeder cable installation

1. Use two guiding pens to open the ports.
2. Once the latches are disengaged, pull the front and middle sections apart.
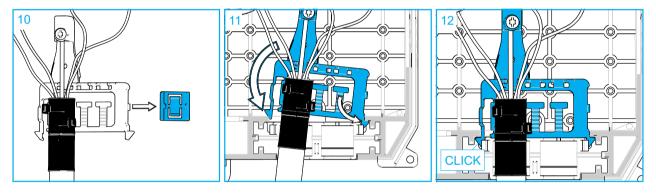3. Secure the bottom part to the box.

4. Determine where the cable will enter and use a pair of pliers to remove the thin plastic knockout from the bottom entry part.
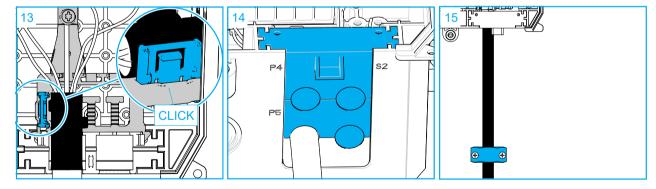5. Remove the corresponding knock out in the second section of the cable entry plate.

📄 *Note:* Remove all sharp edges and burrs.

6   Secure the strength member to the strength member adapter. Make sure the strength member is placed and aligned in the middle of the gap for optimal fixation.

7   Place 2 medium cable ties in opposite directions over the T-shape of the feeder base plate.
8   Place the cable with strength member adapter in position and slide the strength member adapter in the feeder base plate.
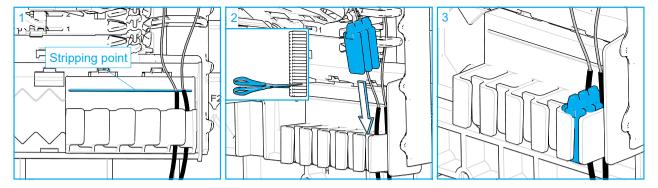9   Secure the cable ties

10   Break off the wig.
11   Insert the bottom hook of the base plate behind the side of the seal block and turn the whole assembly.
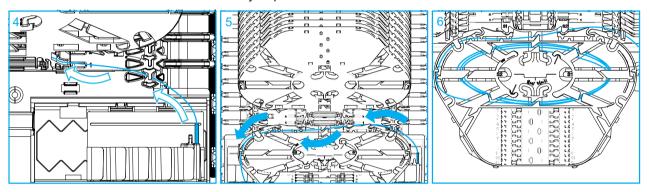12   The other hook will also clicks into place.

13   Install the wig to lock the assembly in place.
14   Reassemble the front section of the cable seal port.
15   Secure the feeder cable to the wall below the box. Verify that the strength member adapter plate remains securely connected to the feeder base plate.
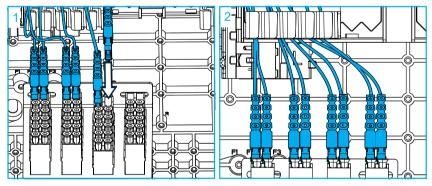
7.3 Route feeder fibers to tray

1. Mark the stripping point indicated by the line on the tube holder. Remove the tube at the marked point according to local procedures. Guide the loose tube through the tube holder.
2. Cut a piece of 3 elements from the rubber part and slide them in the tube holder over the loose tubes.
3. The rubber ensures that the loose tubes stay in place.

4. Route the fibers to the tray as shown in the illustration.
5. Route the fibers on the tray
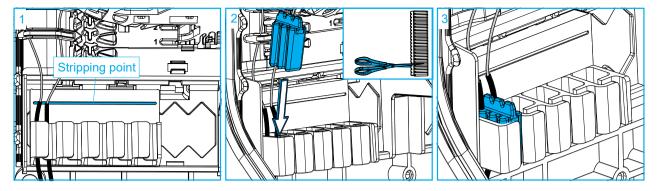6. Store the fibers on the tray.

8 Install 900µm pigtails
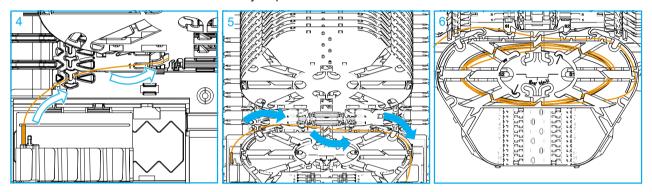
8.1 Route from adapter to organizer

1. Remove the dust caps from the adapter port and connectors. Align the connector with the port, ensuring the correct orientation. Insert the connector into the port until you hear a click, indicating a secure connection.
2. Route the pigtails to the organizer.
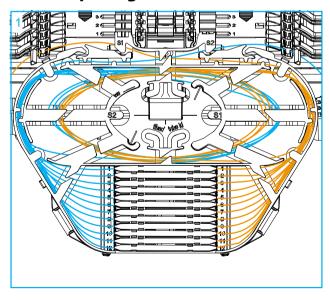
8.2   Route drop fibers to tray

1   Mark the stripping point indicated by the line on the tube holder. Remove the tube at the marked point according to local procedures. Guide the loose tube through the tube holder.
2   Cut a piece of 3 elements from the rubber part and slide them in the tube holder over the loose tubes.
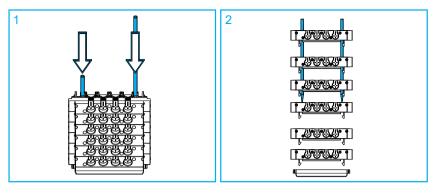3   The rubber ensures that the loose tubes stay in place.

4   Route the fibers to the tray as shown in the illustration.
5   Route the fibers on the tray
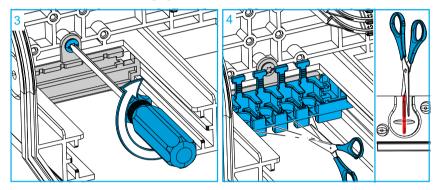6   Store the fibers on the tray.

9   Splicing

1   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.
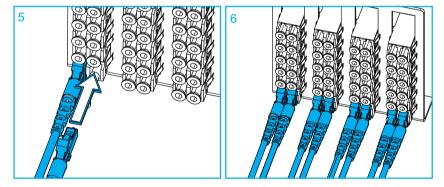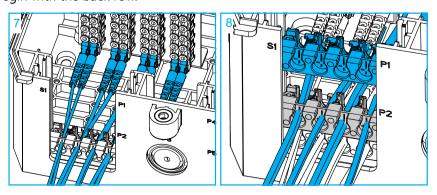
10   Pigtail (Drop cable) installation

1   Use two guiding pens to open the ports.
2   Once the latches are disengaged, pull the sections apart.

3   Secure the bottom part to the box.
4   Install the first part of the seal port and open the ports by making a cut in each port. Ensure the cut is sufficiently deep and extends below the center of the hole.

5   Remove the dust caps from the adapter port and connectors. Align the connector with the port, ensuring the correct orientation. Insert the connector into the port until you hear a click, indicating a secure connection.
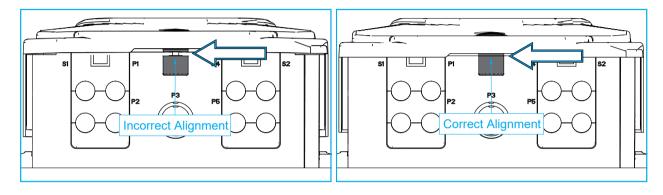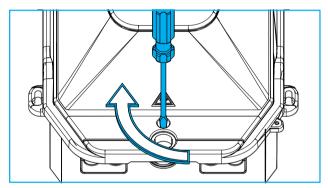6   Begin with the back row.

7   Guide the pigtails (cables) through the port.

📄 *Note:* Be careful not to damage the pigtails (cables) when pushing through the rubber port.

8   Proceed with the same approach for the subsequent layers if needed, or simply assemble the parts together.

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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