NOVUX™ Fiber Optic System
# SEC 100

About this manual

This installation instructions document describes the installation of the SEC 100. 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.

Following installation steps are covered in this document: closure preparation, organizer preparation, feeder cable preparation and installation, drop cable preparation and installation, routing towards and on the trays, splicing, patching, closing the closure and mounting the closure.
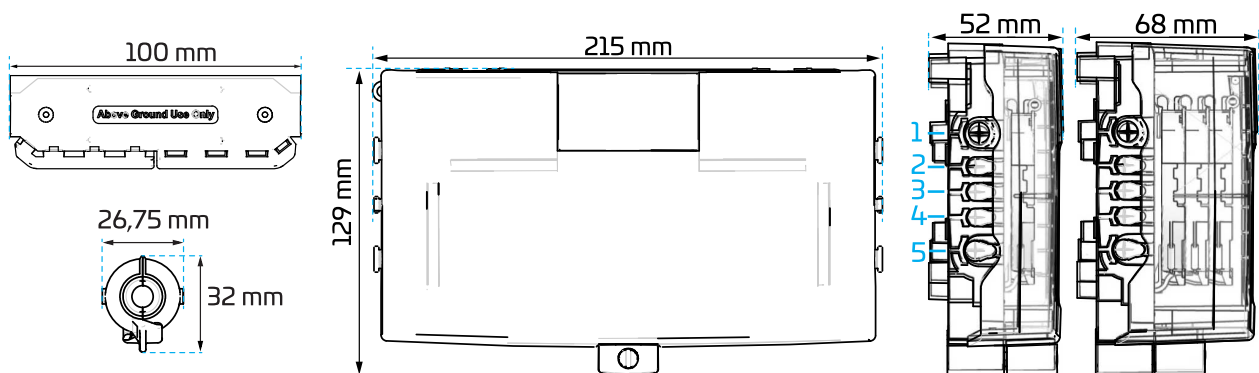
Images in this manual are for reference only and are subject to change.
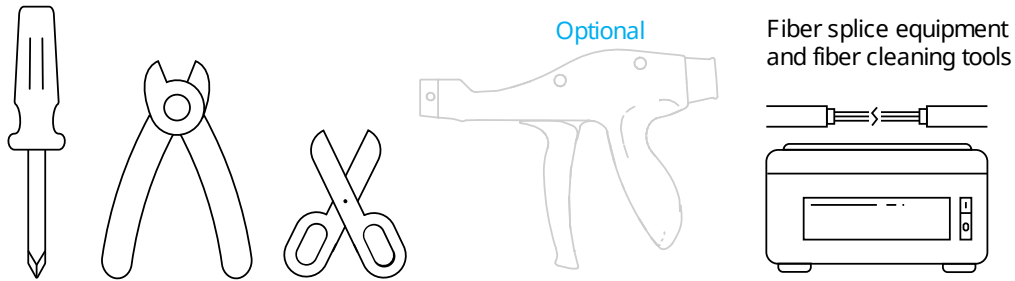
General product information

System overview
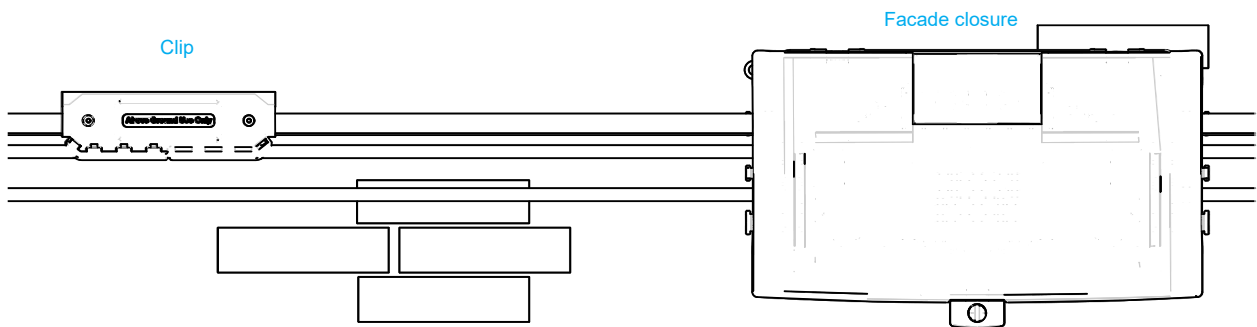
Dimensions

Cable range

Position	Cable diameter range
1, 5(turn seal)	8-12 mm
2, 3, 4	up to 7 mm

Contents

1   Tools

Optional

Fiber splice equipment and fiber cleaning tools

2   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.

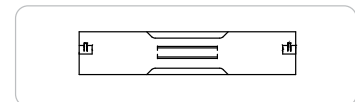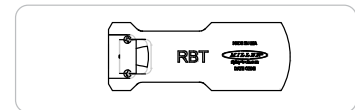# 3   Kit contents and accessories

Kit contents facade closure
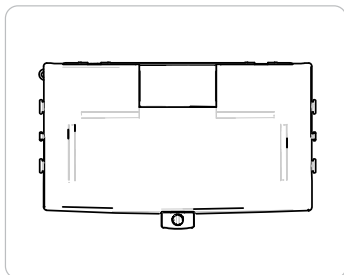
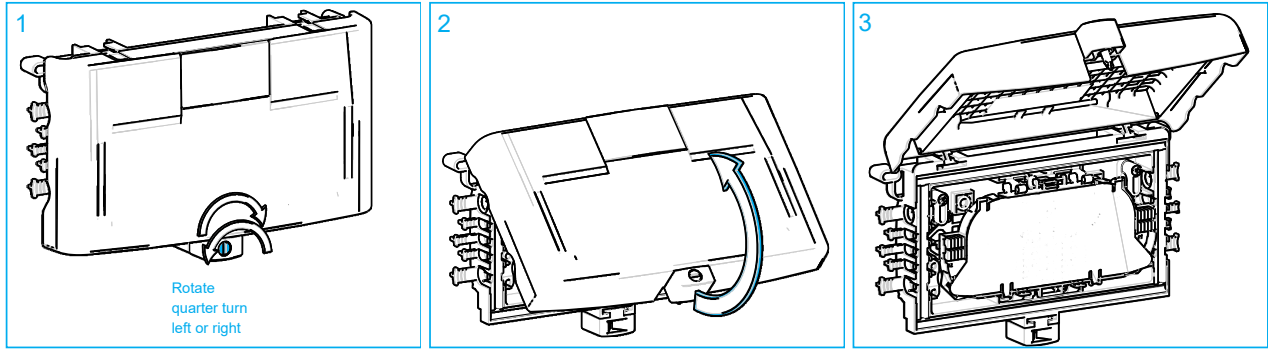Kit contents clip
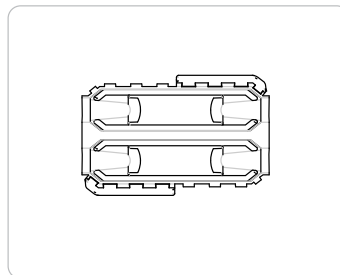
Accessory 1: cable holder

Accessory 2: shaving tool

4   Closure preparation

4.1   Open closure

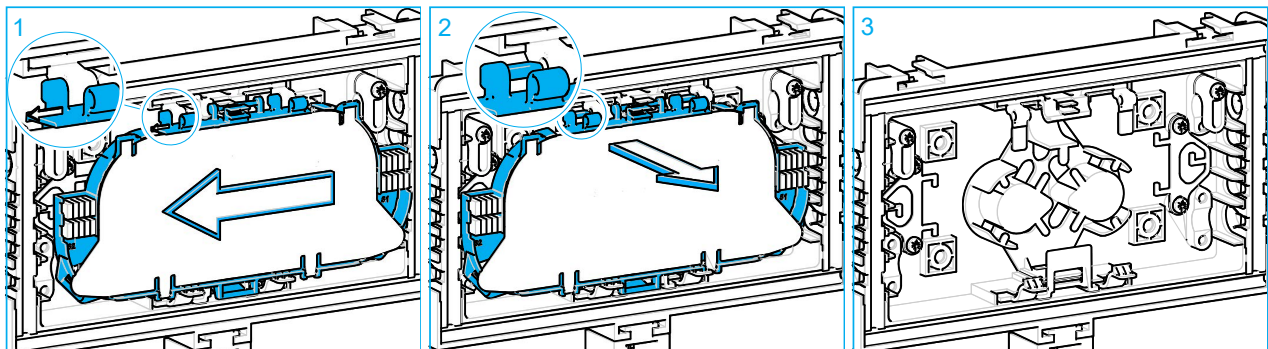| 1	2	3
Rotate quarter turn left or right		

4.2   Lock cover and locate fiber guidance pen

Lock cover

130°
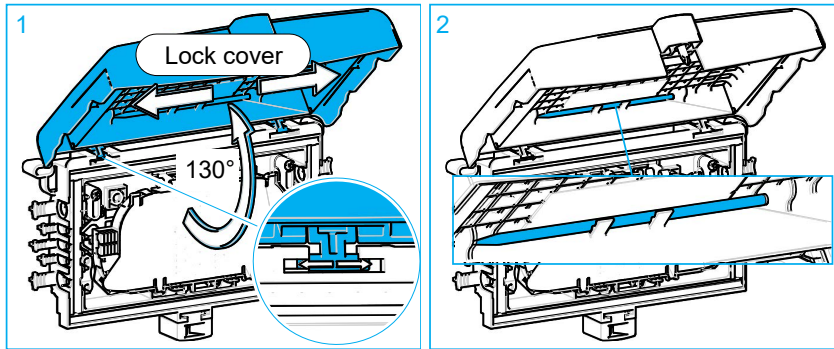
4.3   Remove the closure cover
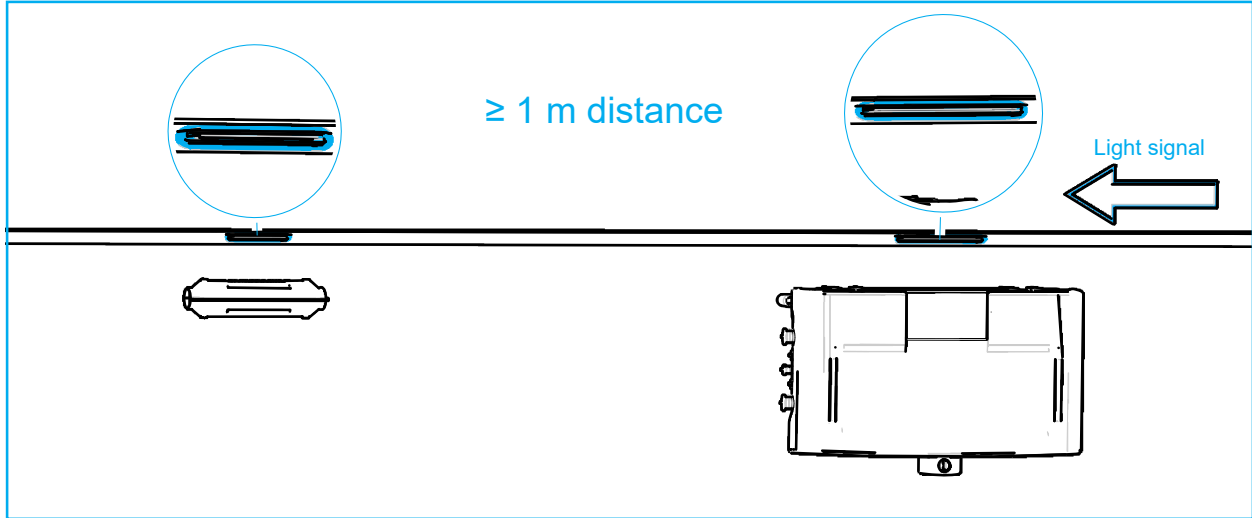
90°
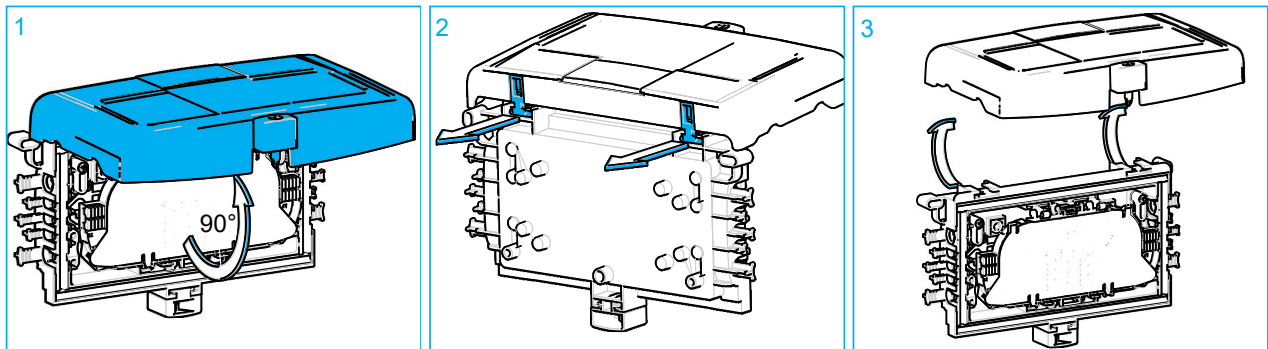
4.4   Remove tray

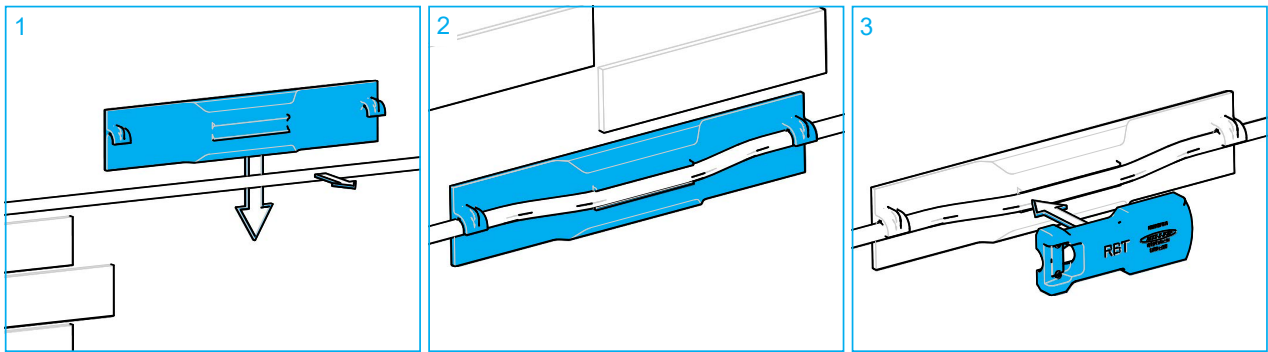# 5   Inline applications

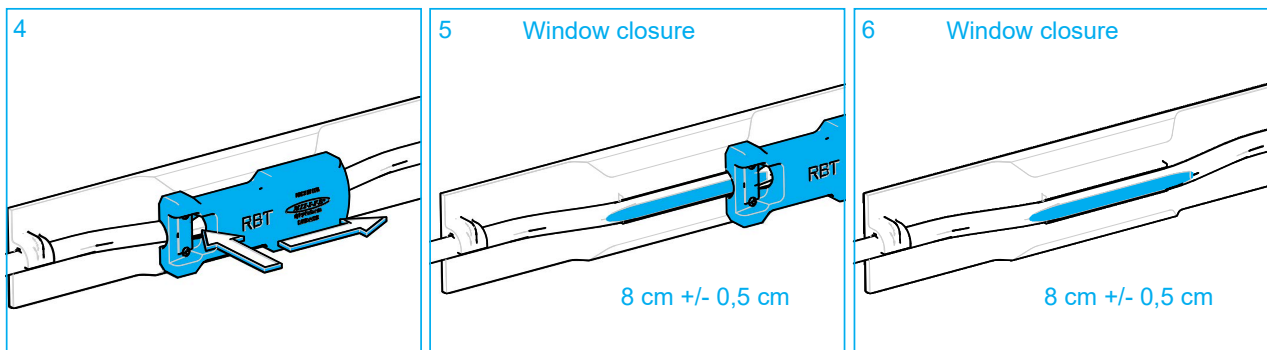## 5.1   Feeder cable preparation

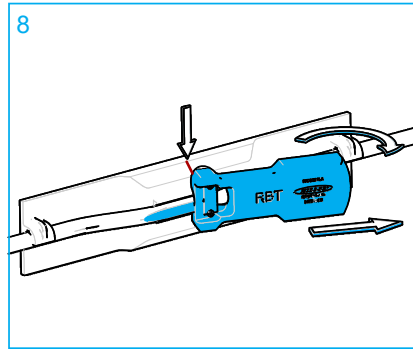### 5.1.1   Window cut

5.1.2   Shave cable

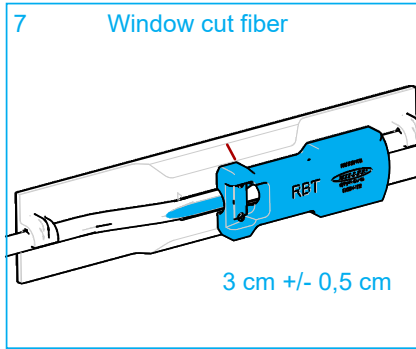1   Install cable holder.

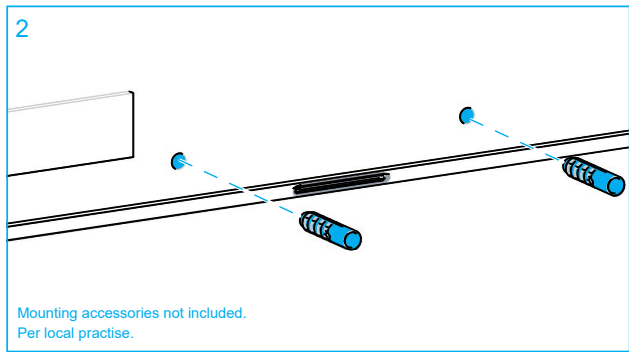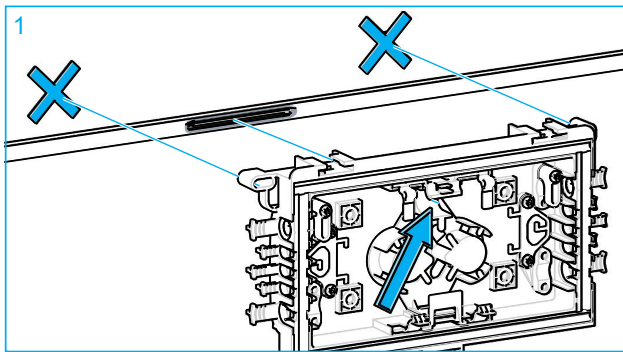2   Make opening in the cable over the complete length of the cable holder (8 cm +/-0,5 cm).

3   Make second opening, at minimum 1 m distance of the existing opening, until mark on the cable holder (3 cm+/-0,5 cm).
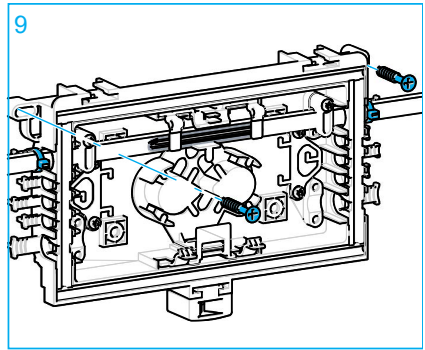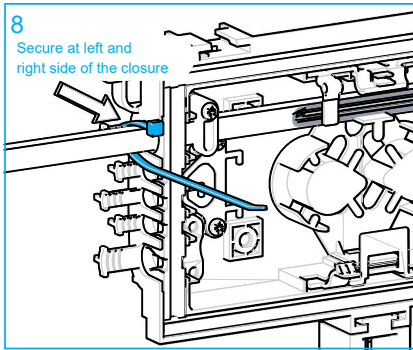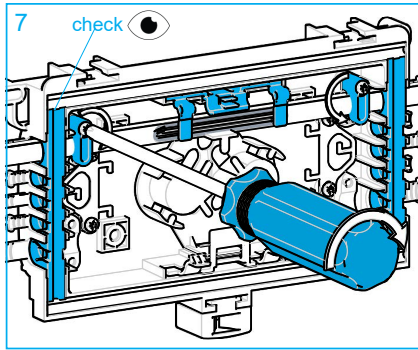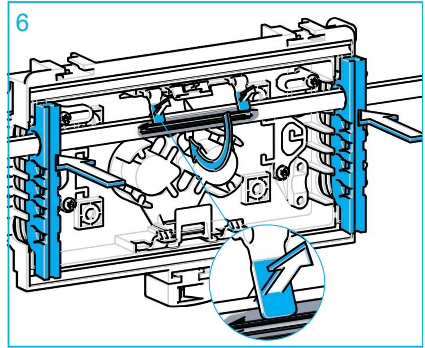
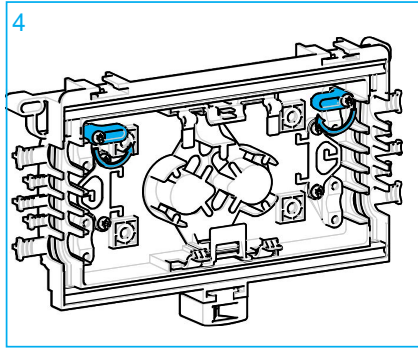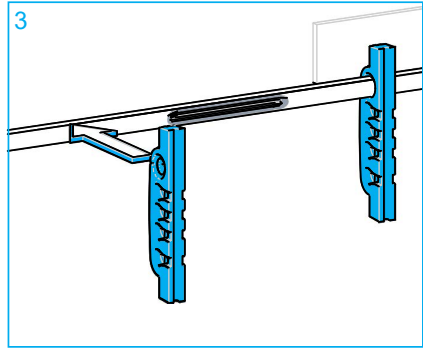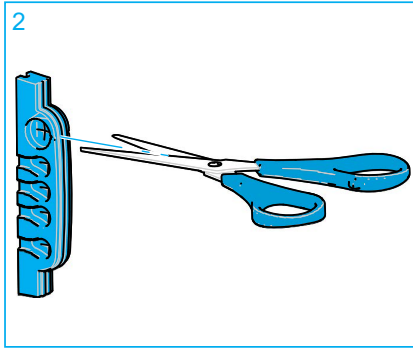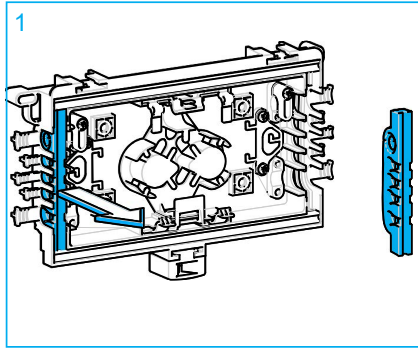| 7 Window cut fiber	8	9 Window cut fiber
3 cm +/- 0,5 cm		3 cm +/- 0,5 cm
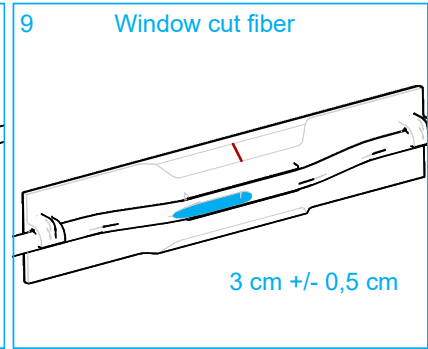
5.2   Position closure on the cable

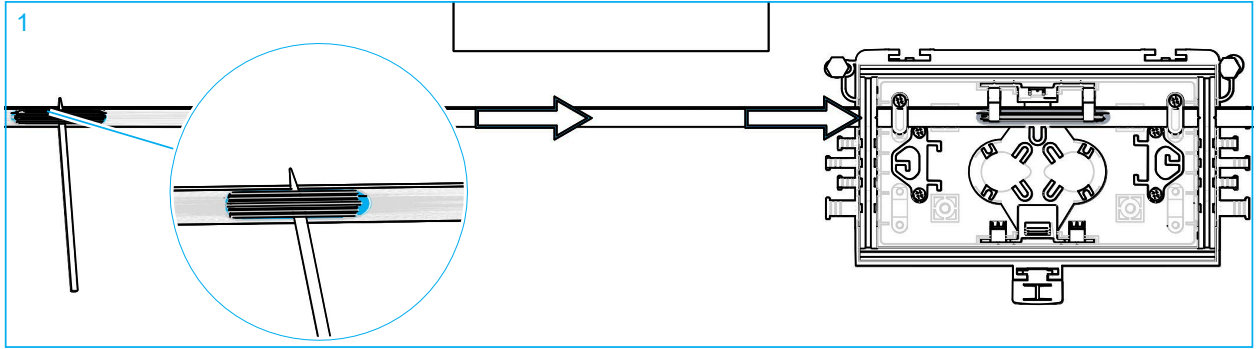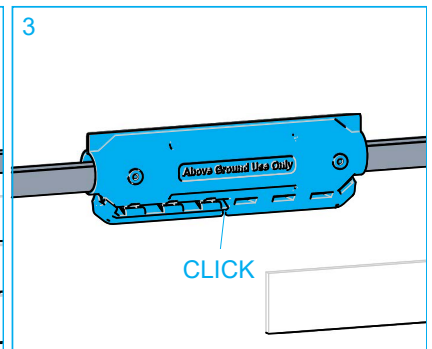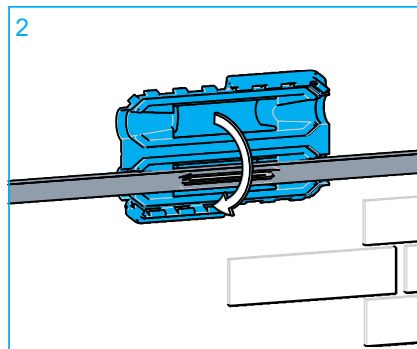| 1	2
	Mounting accessories not included. Per local practise.

5.3 Mount the closure
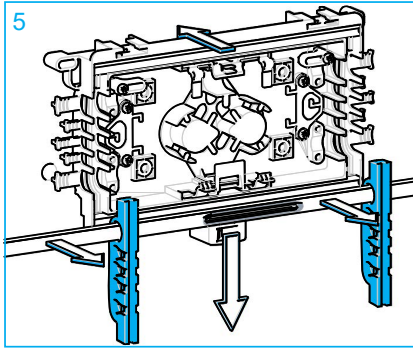
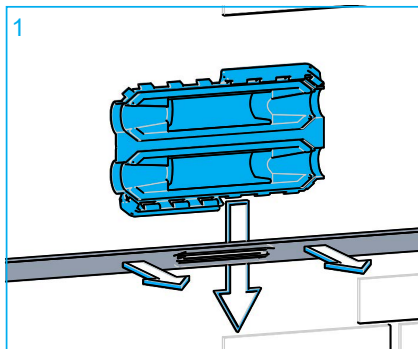## 5.4   Feeder cable installation

5.4.1   Pull back fibers
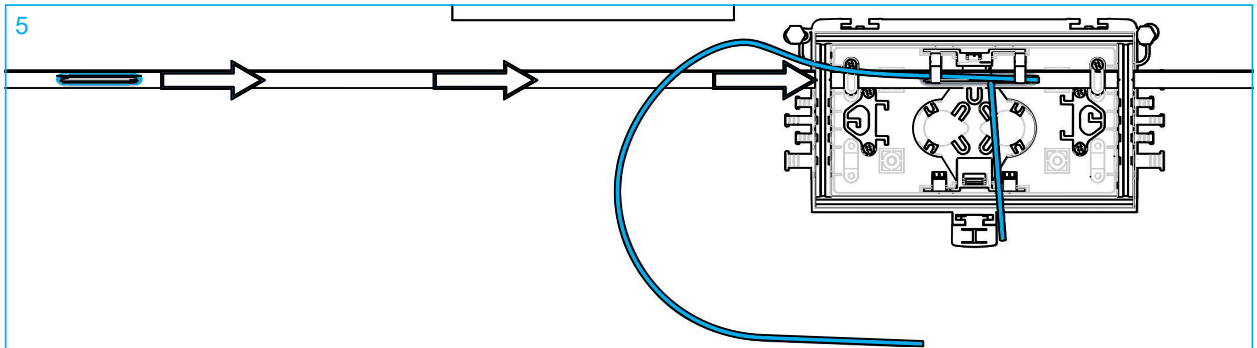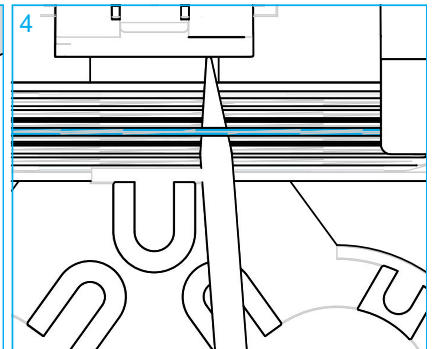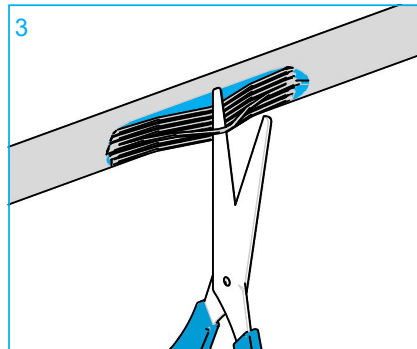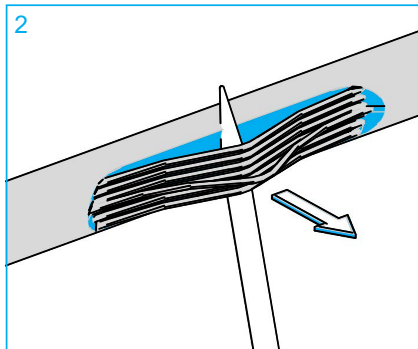
5.4.2   Protect window to cut fiber

CLICK

5.4.3 Reinstall tray
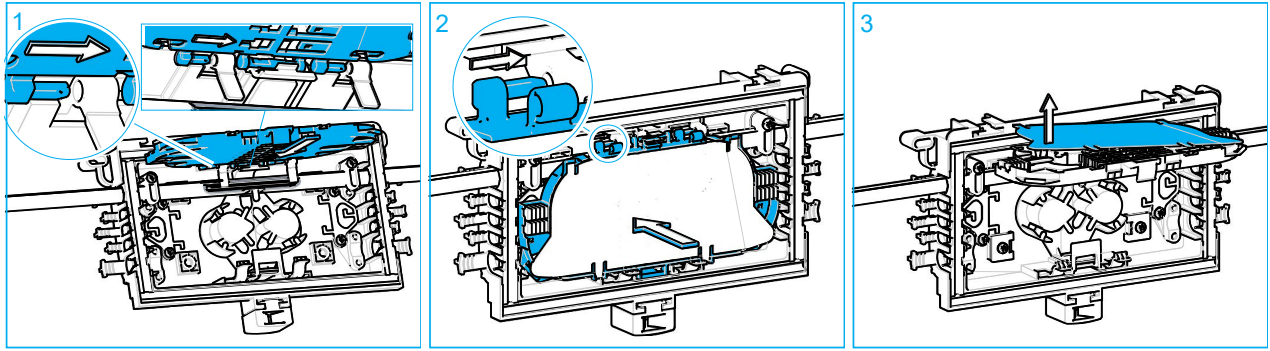
5.4.4 Route feeder fibers to splice tray

Stripping point
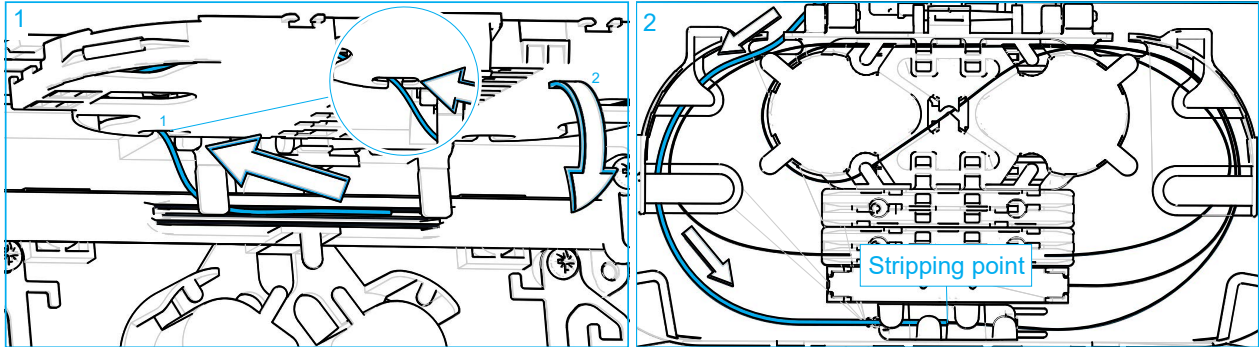
5.5 Splice application

5.5.1 Install drop cable

5.5.1.1 Insert drop cables

Push drop cable through seal

Push through +/- 2 m

130 cm
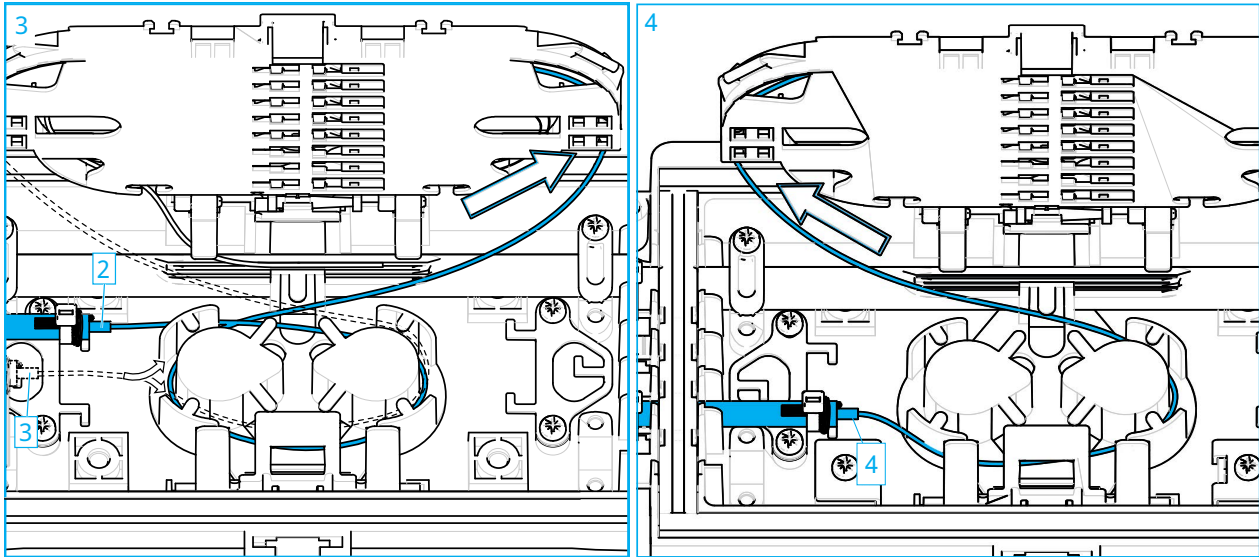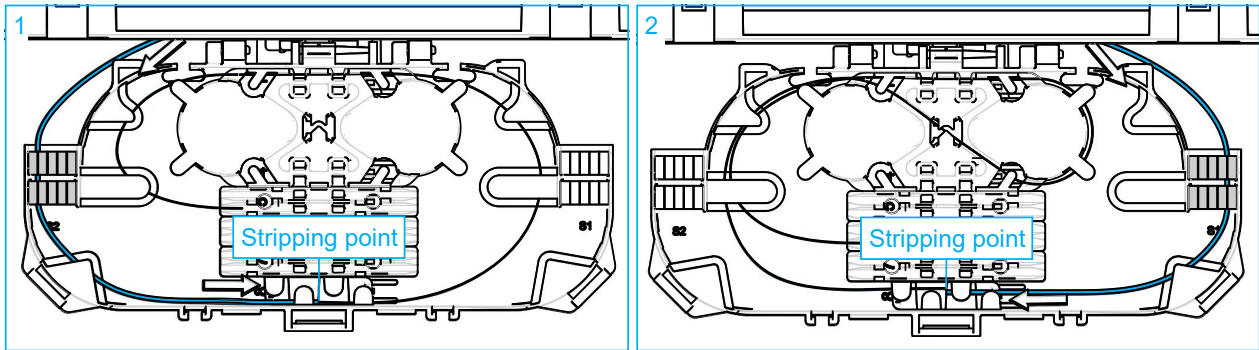
12 cm
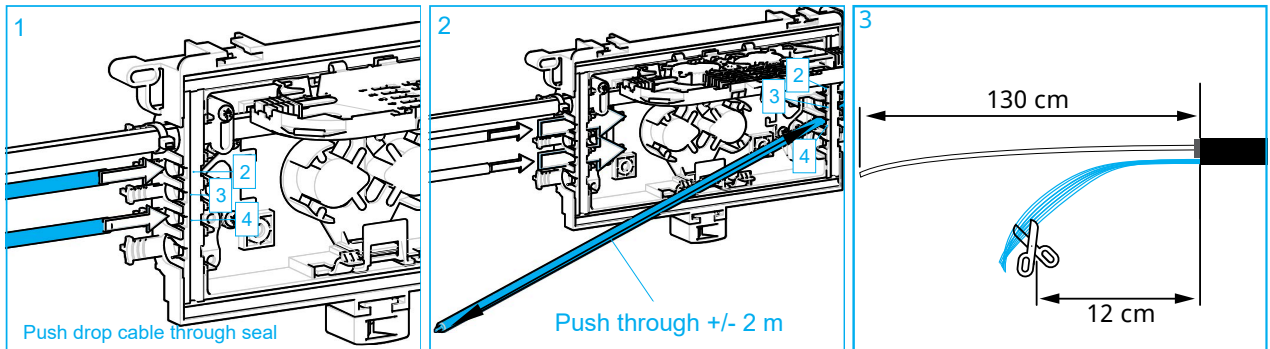
5.5.1.2   Secure aramid yarn
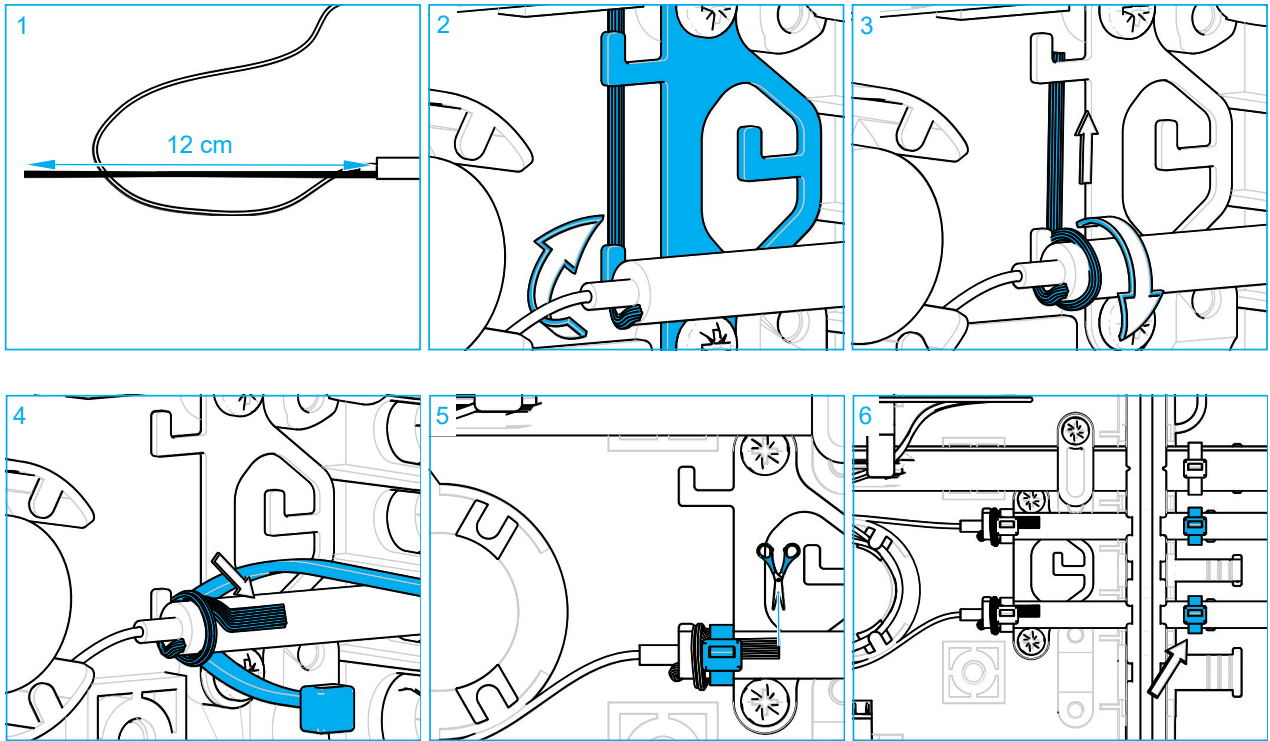
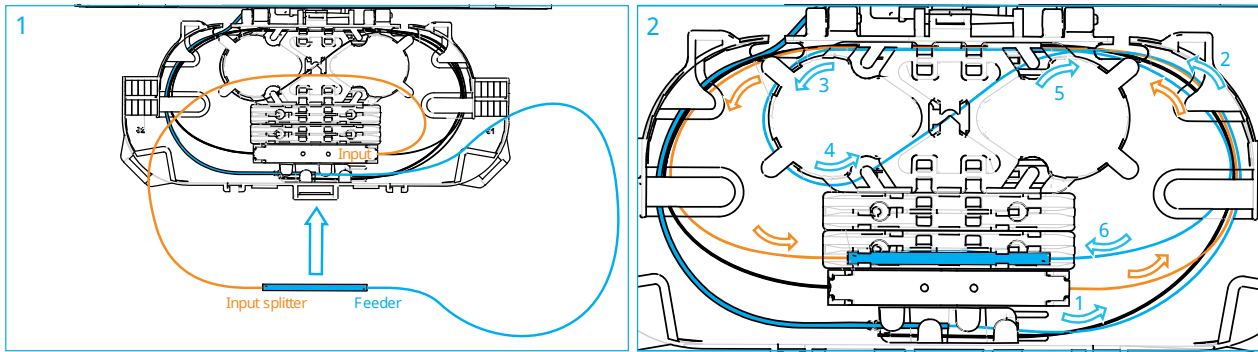
5.5.1.3   Route drop cables to tray

5.5.1.4 Routing on tray
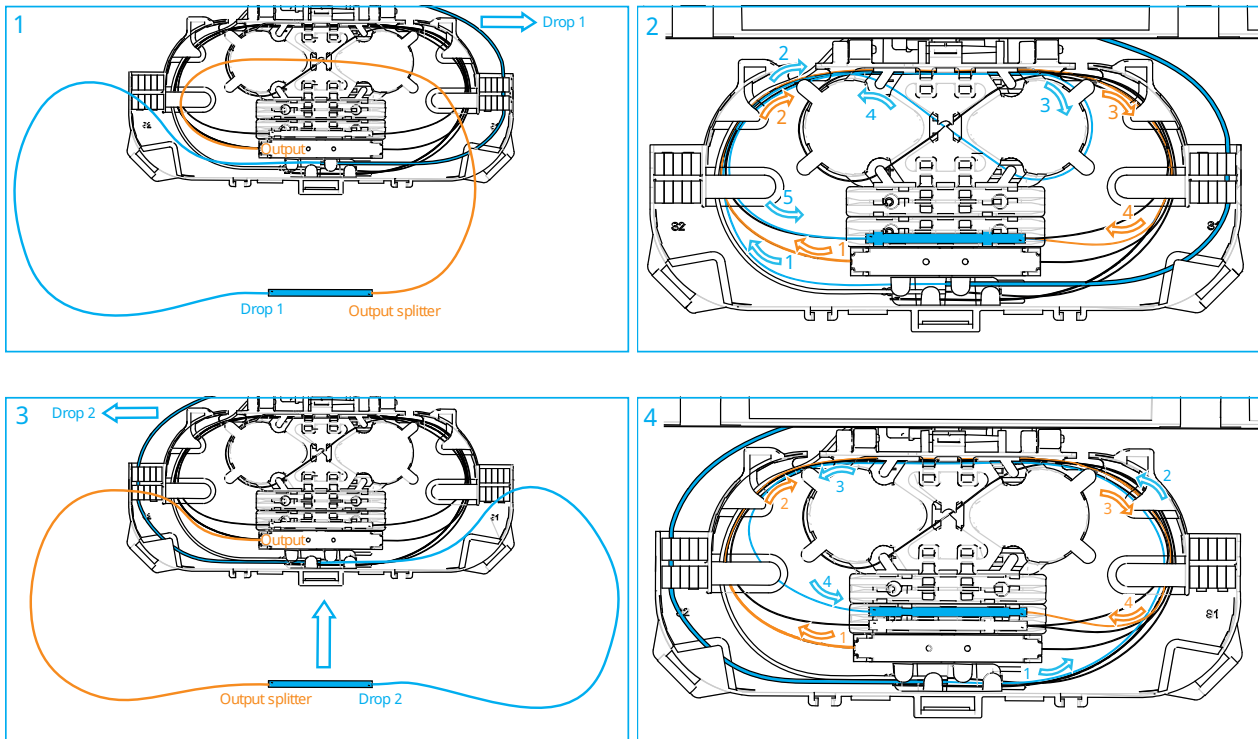
Stripping point

Stripping point
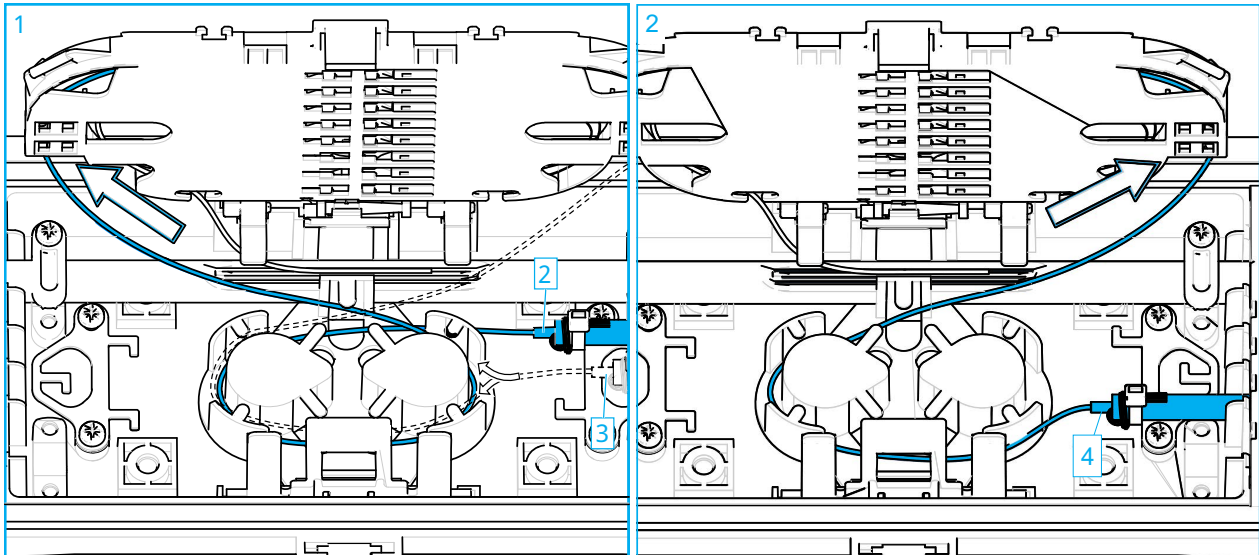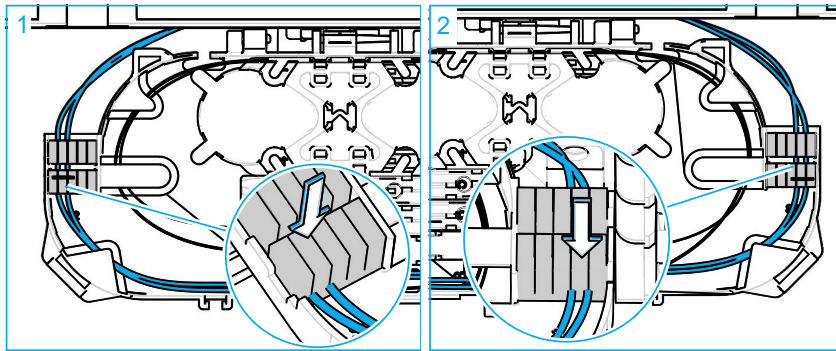
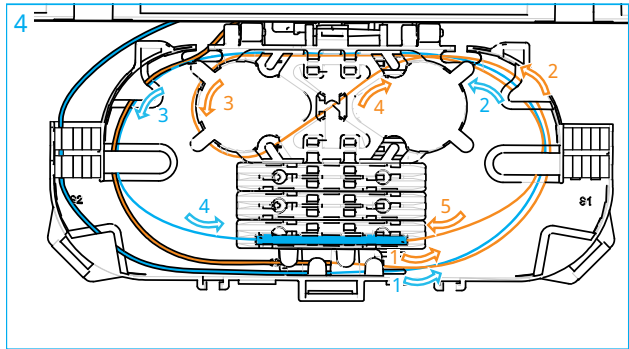## 5.5.2 Splitter application
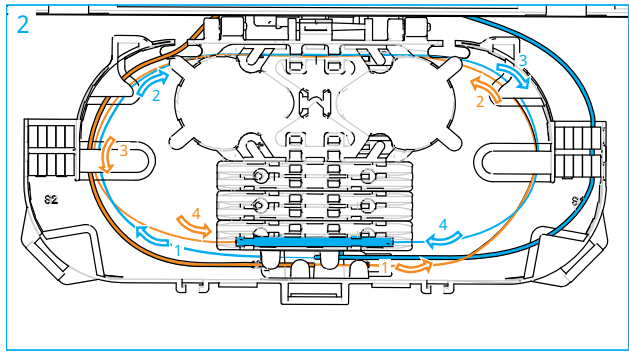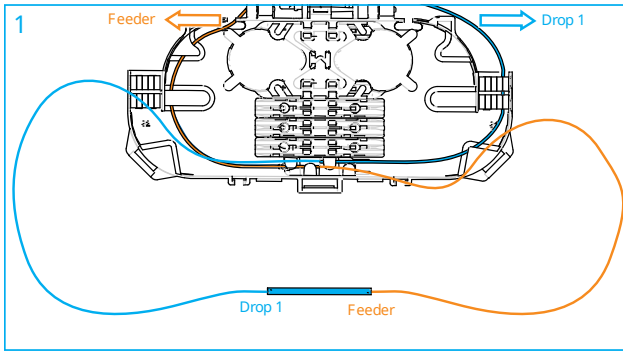
5.5.2.1 Splice feeder to input splitter

Input splitter · Feeder

5.5.2.2 Splice drop to output splitter

Drop 1 · Output splitter
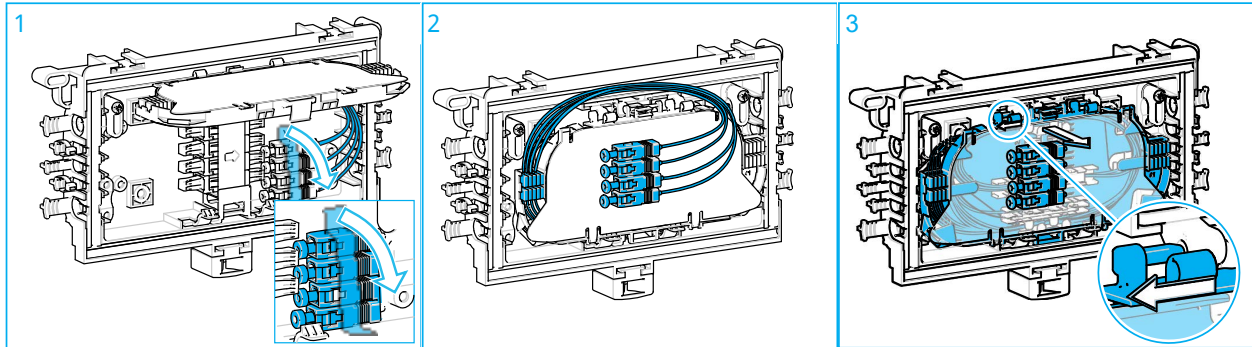

Output splitter · Drop 2

5.5.3 Direct connection
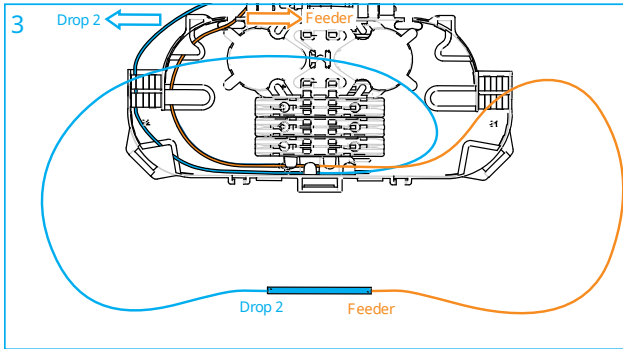
5.6   Patch application

5.6.1   Install feeder cable

Prepare closure as explained in section Open closure on page 4 until section Remove the closure cover on page 4.

1   Open the tray and remove the tape to unattached the SC connectors in the bottom cover.
2   Hinge the tray down and put the connectors on top.
3   Remove the tray. More details can be found in section Remove tray on page 4.



SC - TIA/EIA 598-A

P1- BLUE
P2- ORANGE
P3- GREEN
P4- BROWN
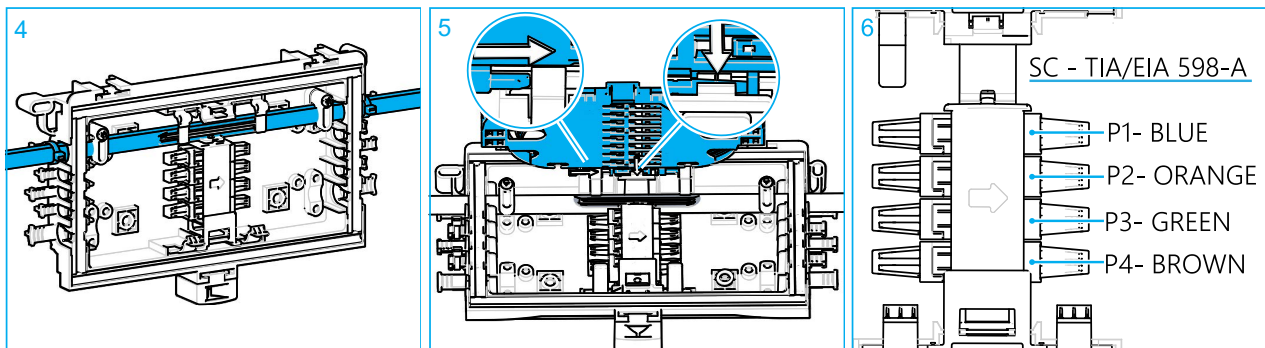
4   Prepare feeder cable, mount closure and install feeder cable as explained in section Feeder cable preparation on page 5 until section Mount the closure on page 7.
5   Reinstall tray. More details can be found in section Reinstall tray on page 9.
6   Before connecting the splitter output connectors to the patch panel, observe the TIA/EIA 598-A fiber color standard in figure 6.
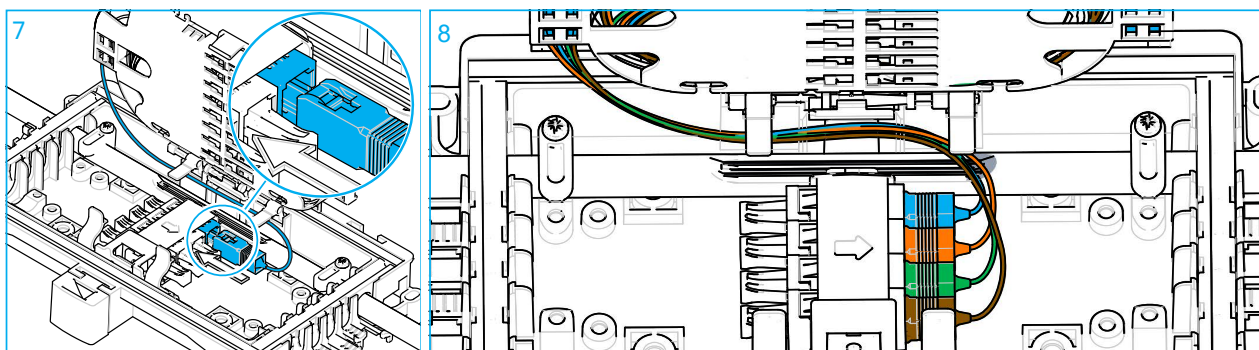
7   Remove dust caps of both connector and adapter. Clean the connector and adapter per standard practice when necessary. Position the connector in the correct orientation (rib facing forward as shown in image above). A clicking sound is observed when the connector is properly seated.
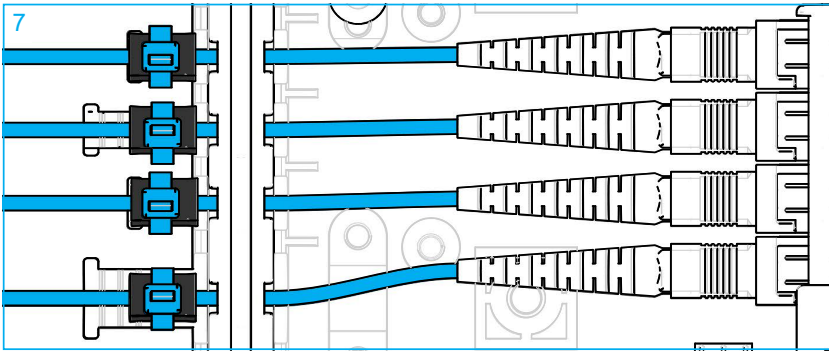8   Dress pigtails under the two lips and make sure correct bend radius is always respected.

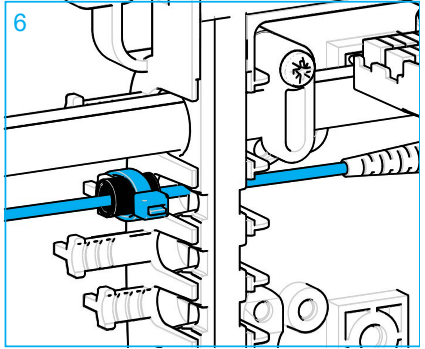## 5.6.2 Splice feeder fiber to input splitter
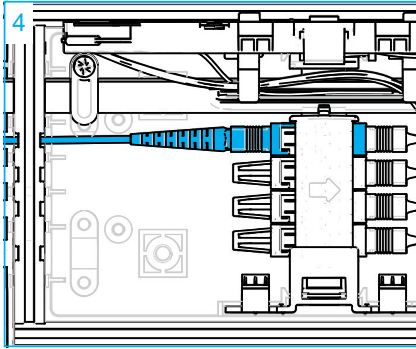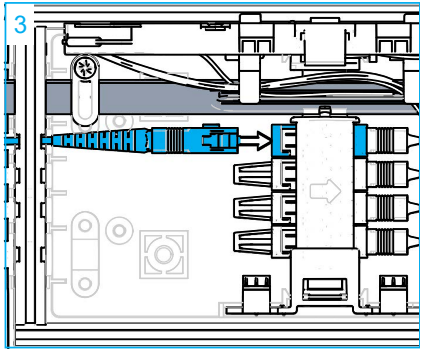
Pull back the fiber and protect the window cut to cut the fiber. Route the feeder fiber to the tray (either left or right).

Stripping point

Feeder

Input splitter Feeder

Feeder

Feeder

Input splitter Feeder

Feeder
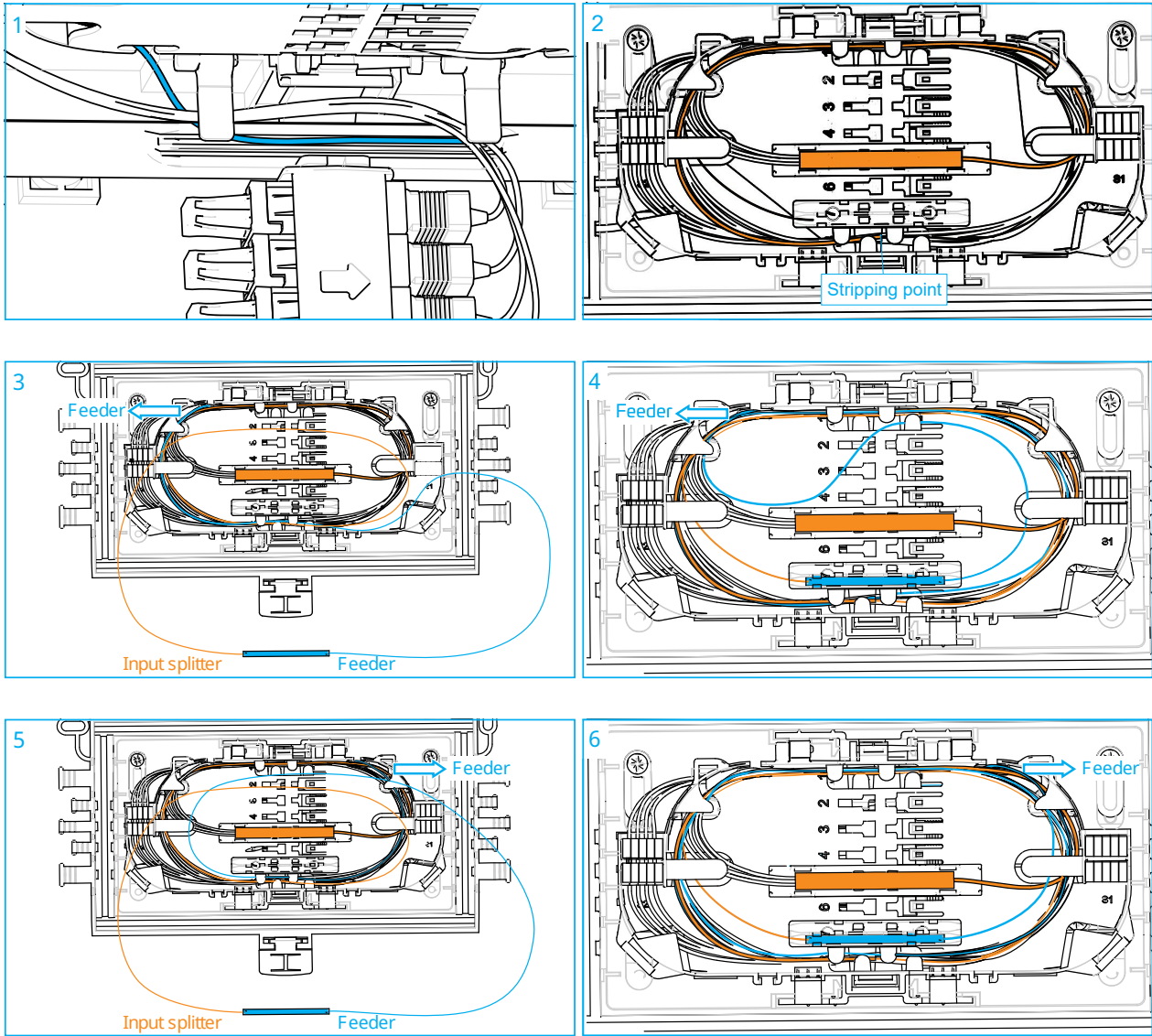
5.6.3 Connect drops
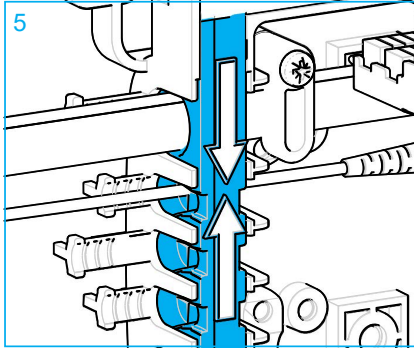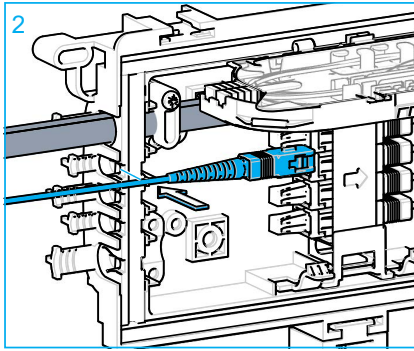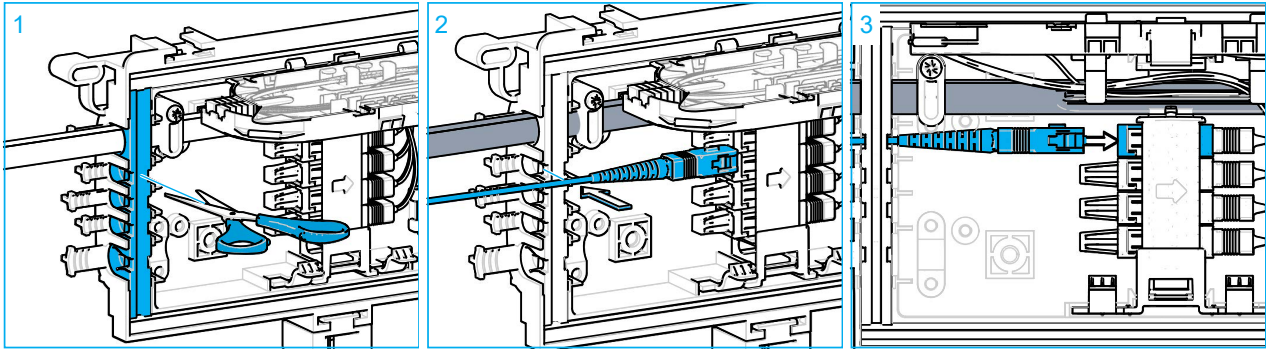
6 Cable to cable application

6.1 Prepare cable (Ø 9 mm)

Note: To secure the strength member(s), a separate kit with the required components can be ordered.

6.2 Route to tray
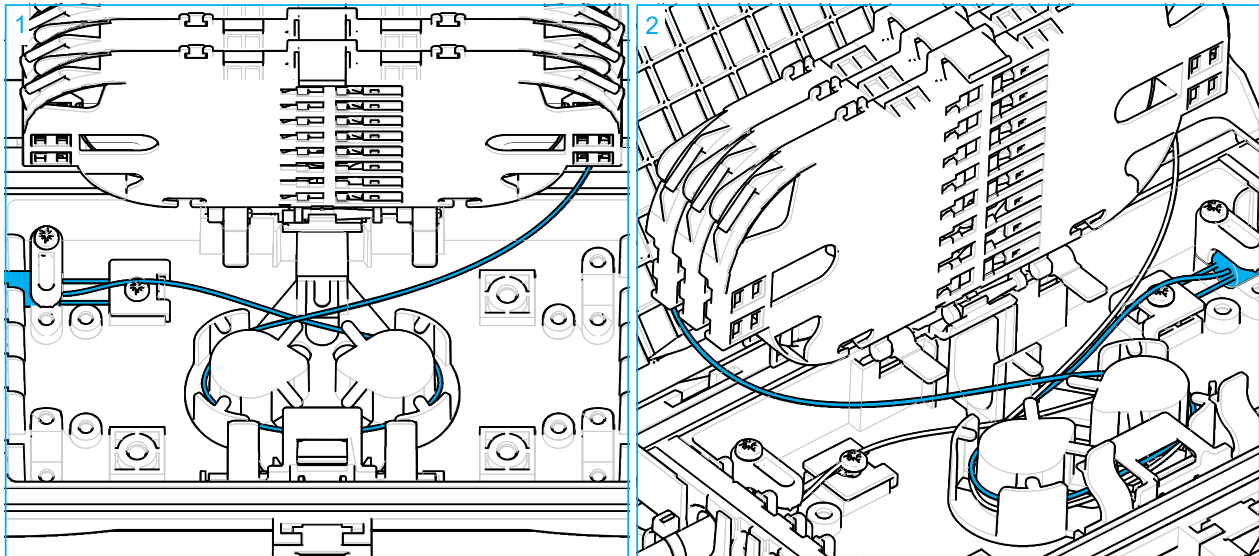
6.3 Routing on tray

6.4 Make splice

6.5 Use bottom port

7   Reinstall tray cover

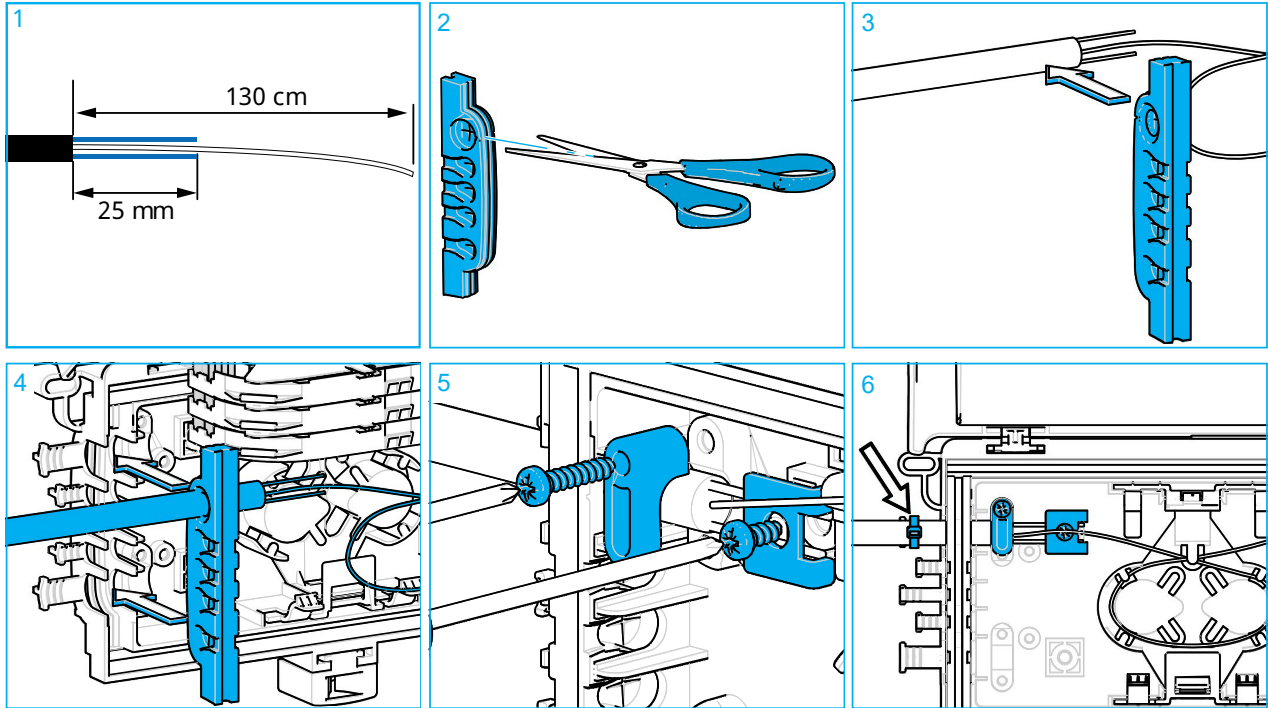## 8   Reinstall closure cover

9   Lock the closure

⚠️ *Attention:* Make sure that seals are in correct position before closing the cover!

10   Trade-marks

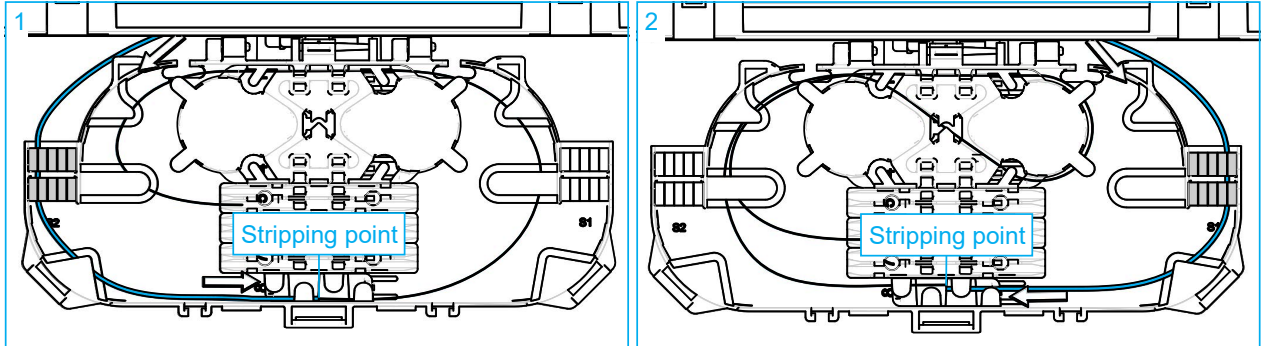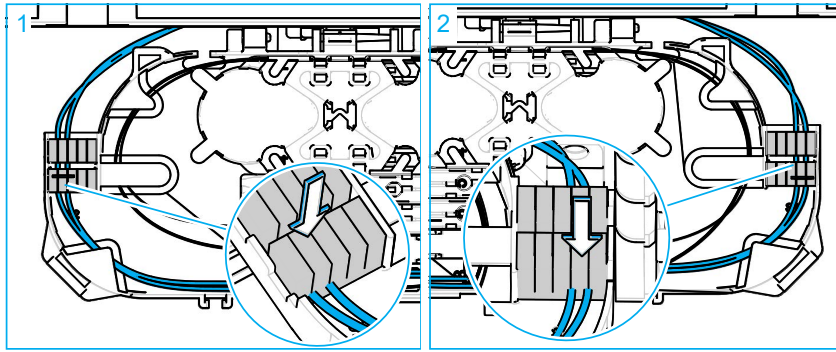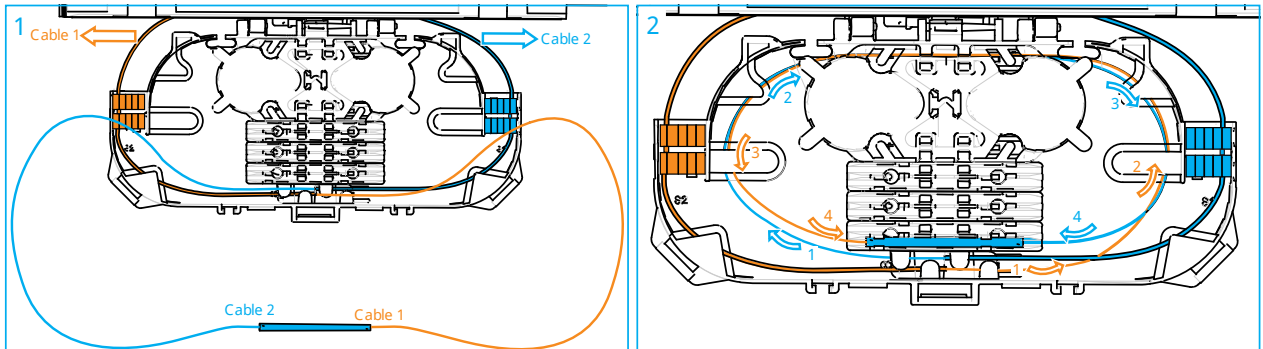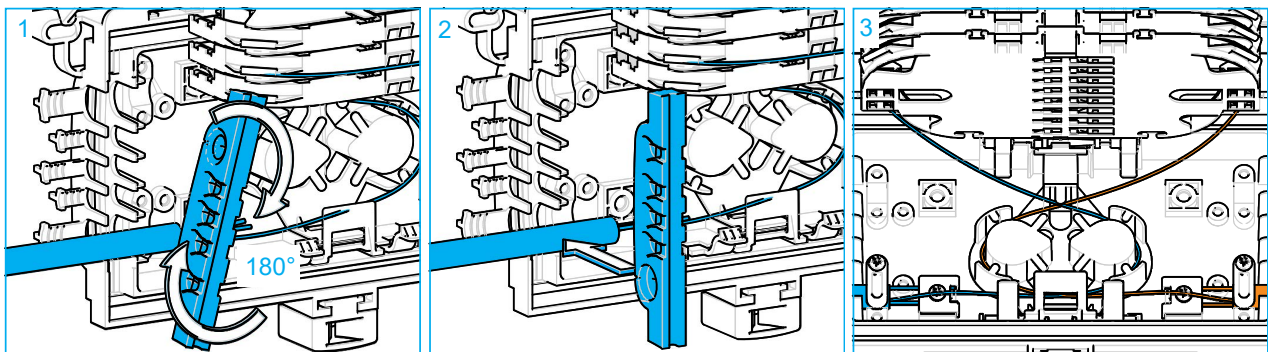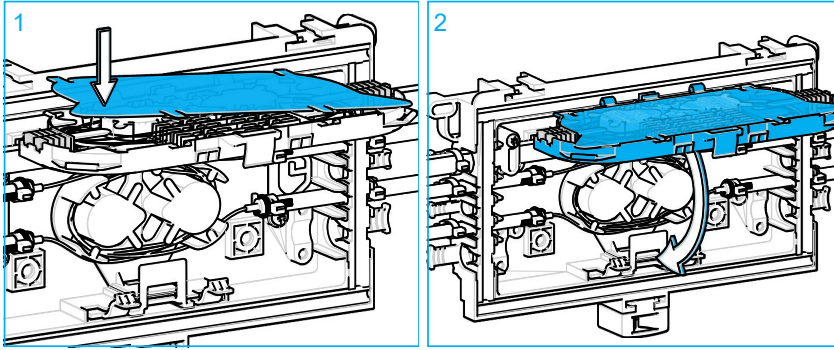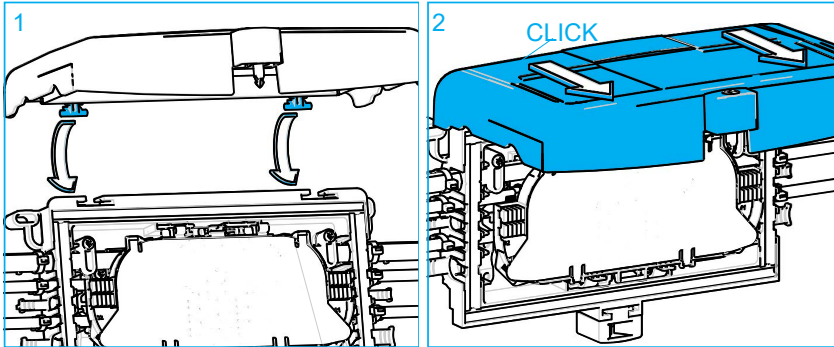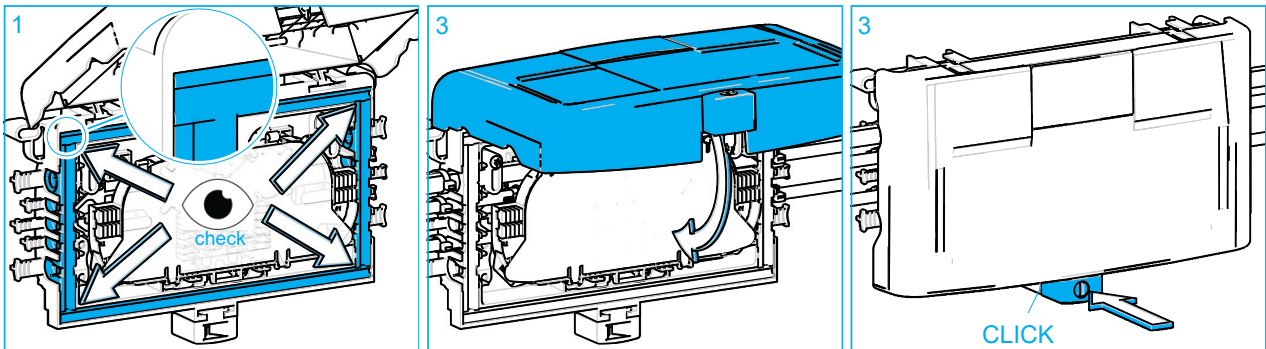All trademarks identified by ® are registered trademarks in the US and may be registered in other countries. All third party product names, trademarks and registered trademarks are property of their respective owners.

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