COMMSCOPE®

FDC-B8
INSTALLATION INSTRUCTION

Fiber Drop Closure for Aerial Applications

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1 General
2 Sizing and product kit information
3 Installation conditions precautions
4 Splitter installation
5 Hanger bracket installation
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1 General

1.1 Installation Instruction description

The installation instruction describes the necessary steps to install the FDC-B8 at strand. The installation instruction illustrates the use on ADSS cables (900μm fiber and with Kevlar). If other cable types are used, supplementary installation steps have to be made. Contact the local agent to get the relevant accessories and instructions.

1.2 Product description

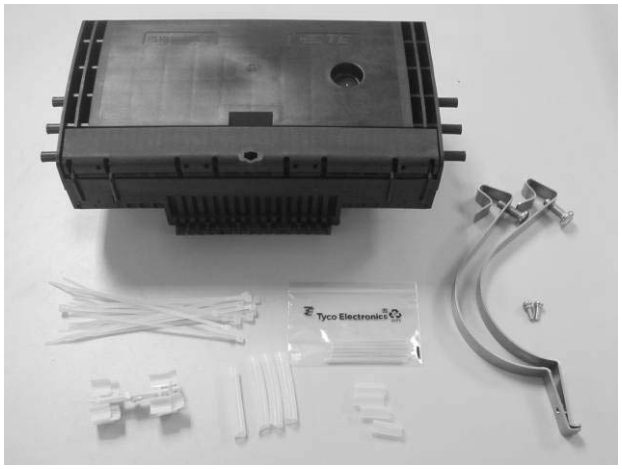
The FDC-B8 is a gel sealed in-line distribution closure for aerial application or up to 0.5m underwater. It accommodates up to 48 fusion splices and 8 SC adapters and has 3 in and 3 out main cable ports and 8 drop cable ports.

2 Sizing and product kit information

2.1 Dimensions

Main cable diameter range	7/8.5/10/12mm
Drop cable diameter range	3mm
Closure outer dimensions	270x170x80mm

2.2 Kit content



* Below listed is a standard kit, alternative kits and accessories are available.

1. Cover and bottom with latch
2. Tray with tray lid (2sets)
3. Transportation tube (4pcs)
4. SMOUVs
5. Tie wraps
6. Cable fixation bracket (3sets)
7. Cable supporting blocks (6pcs)
8. Dummy rods (6pcs)
9. Cleaning tissue
10. SC adapters (8pcs)
11. Drop cable dummy rod (8pcs)
12. Installation instruction
13. Hanger bracket and screws

3 Installation conditions precautions

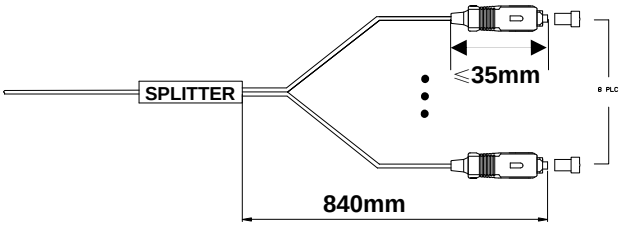
3.1 The closures should be installed at temperature between -5°C and 45°C.

3.2 Follow the installation instruction steps to ensure the performance of the closure.

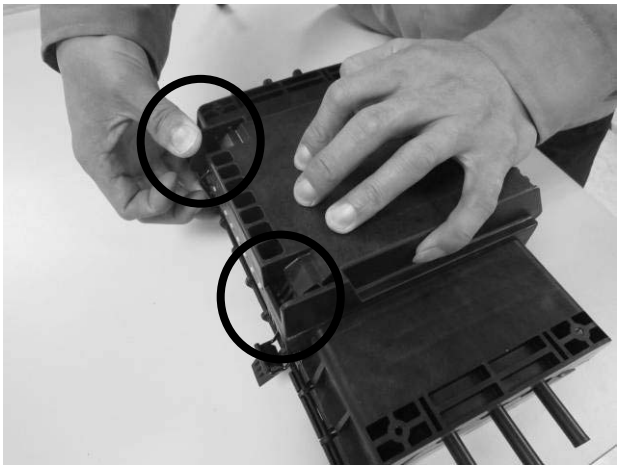
3.3 It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.

4 Splitter installation

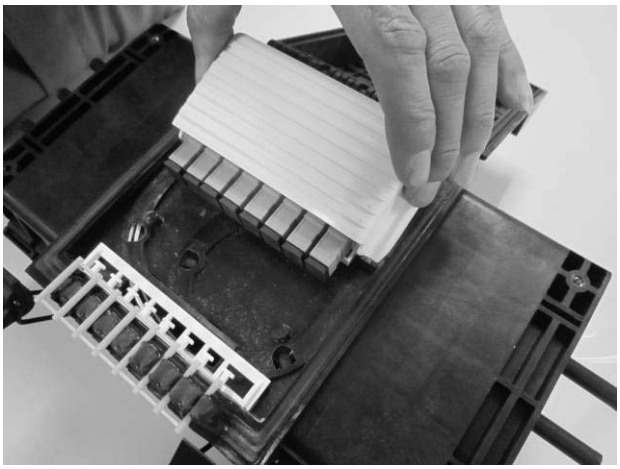
4.1 Recommended connector and connectorized splitter pigtail length is shown below.



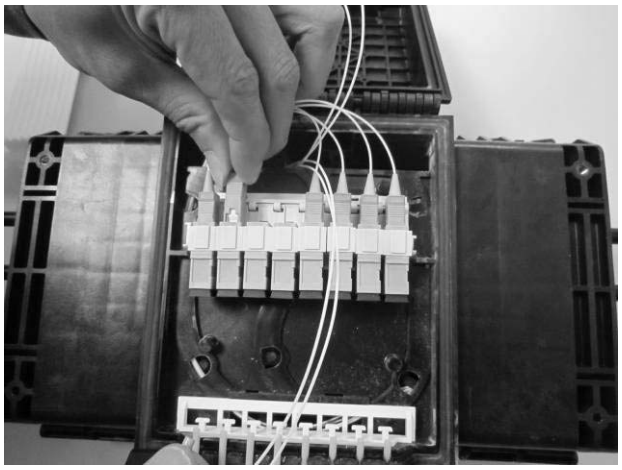
4.2 Open the back cover.



4.3 Open the patching tray cover.

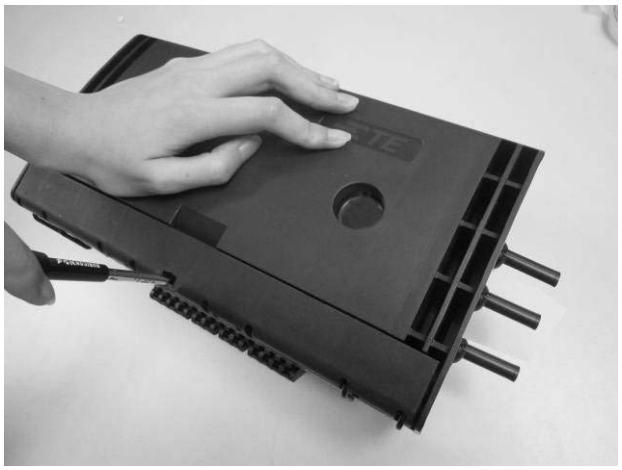


4.4 Connect the pigtails to adapters and then put the splitter into the closure front side.



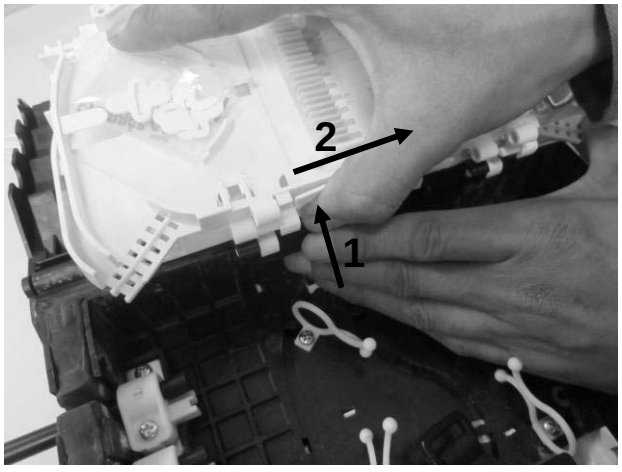
4.5 Close the patching tray cover and then the back cover.

4.6 Open the closure by lifting the latch.

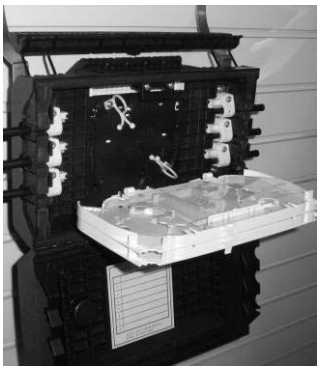


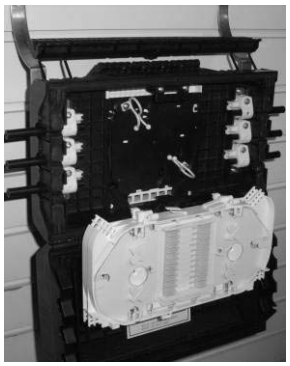
4.7 **OPTIONAL**:

The top tray can be removed for easy installation.

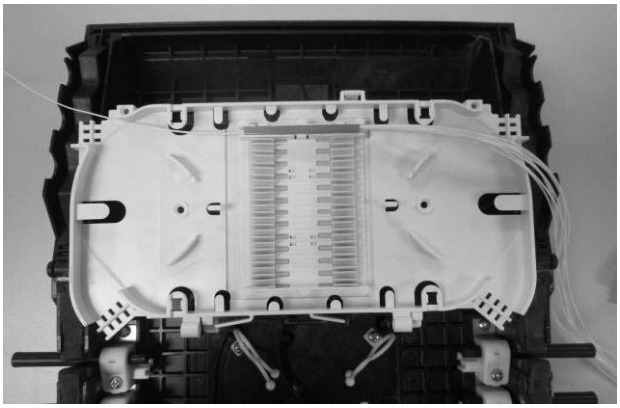


4.8 **Note**: the tray can be installed both 90 degree and 180 degree.

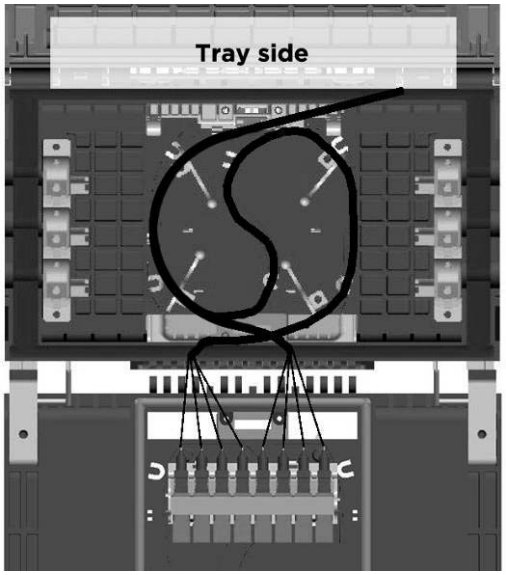




4.9 Install the splitter on the tray.

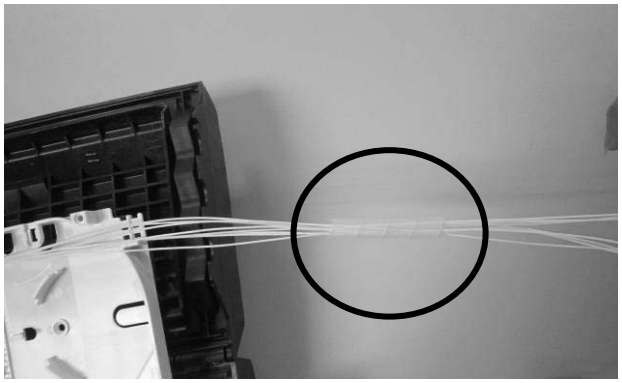


4.10 Split the pigtails into 2 groups. Route the pigtails as shown.

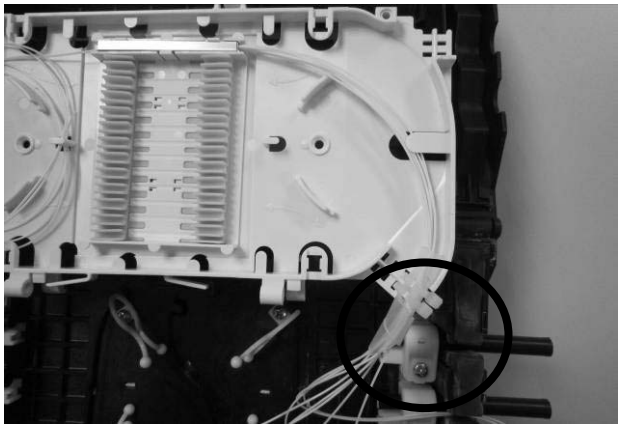


4.11 Cut the transportation tube as shown.

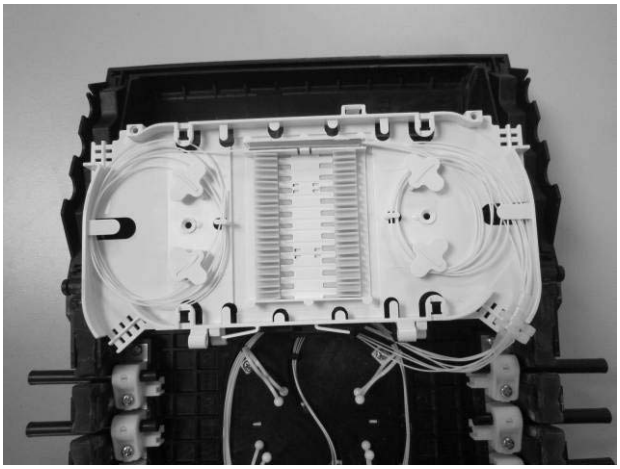
4.12 Install the tube over the pigtails.



4.13 Secure the tube at the tray with 2pcs tie wraps.

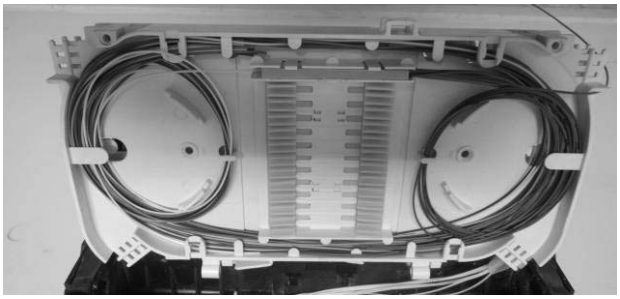


4.14 Store the fibers on tray properly.

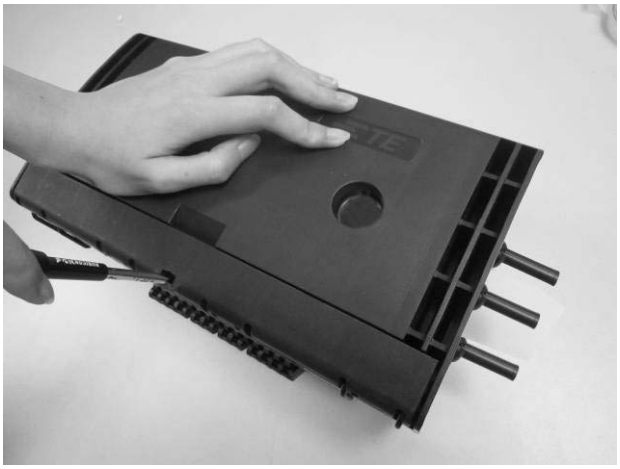


4.15 Add on the top tray.

4.16 Install the 2nd splitter and store the fibers on the tray properly.

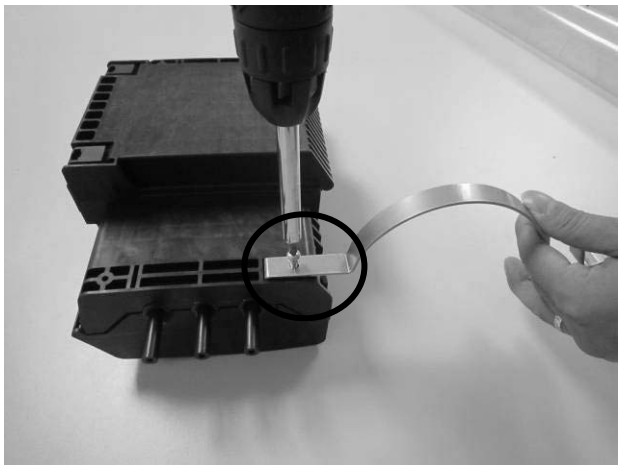


4.17 Close the trays and closure.

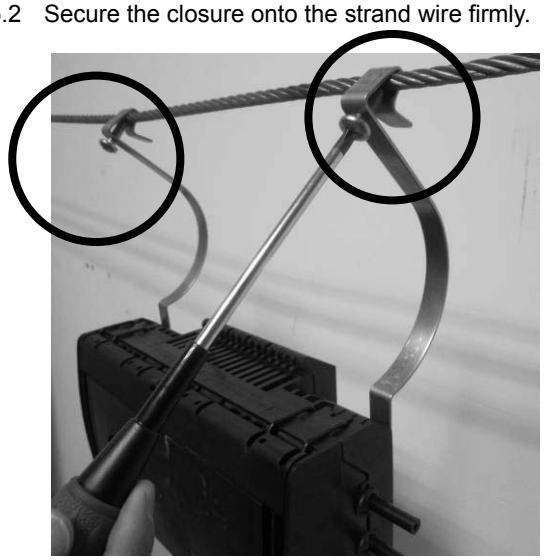


5 Hanger bracket installation

5.1 Install the hanger bracket onto the closure.



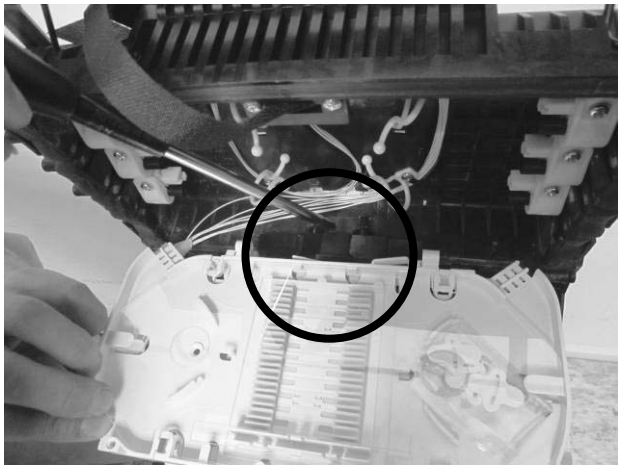
5.2 Secure the closure onto the strand wire firmly.



6 Cable installation

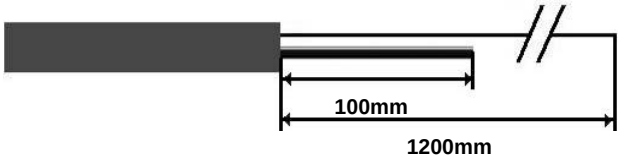
6.1 Push the tray wedge until a click.

Note: Tray wedge is used to maintain the tray horizontally.



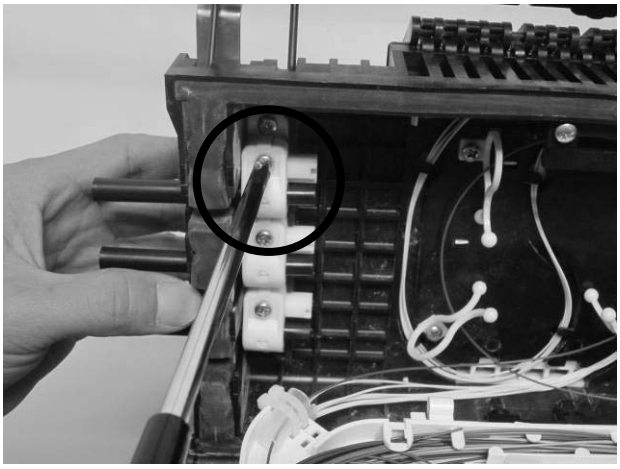
6.2 Make a window cut of 2400mm for ***looped cables***.

6.3 For ***cut cables***, remove the cable sheath 1200mm and the Kevlar up to 100mm from the cable jacket end.

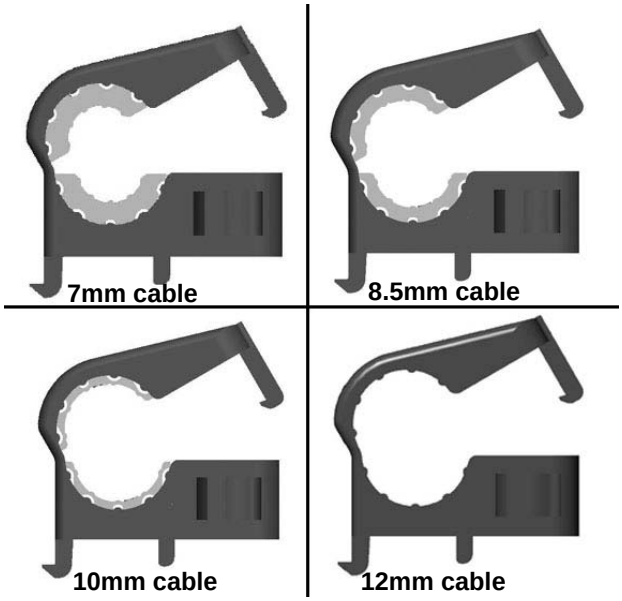


6.4 Clean the cable sheath up to 80mm from the cable jacket end.

6.5 Remove the cable bracket and dummy rod where cable will be installed.



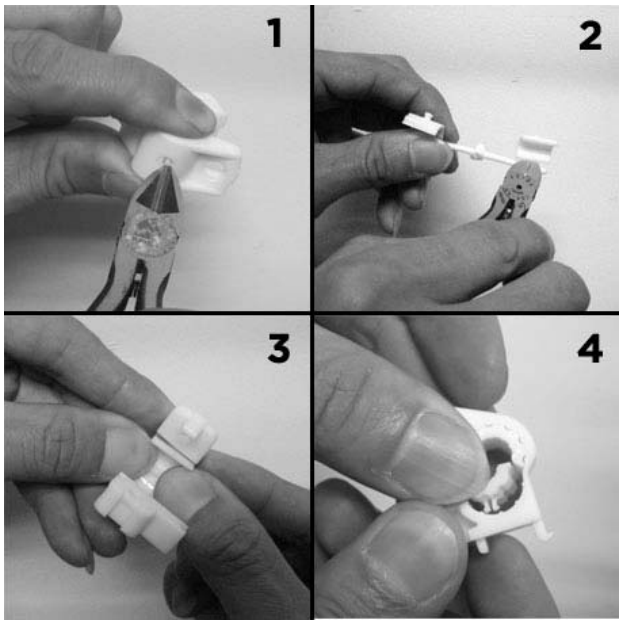
6.6 The cable fixation bracket is suitable for cable OD=7/8.5/10/12mm.



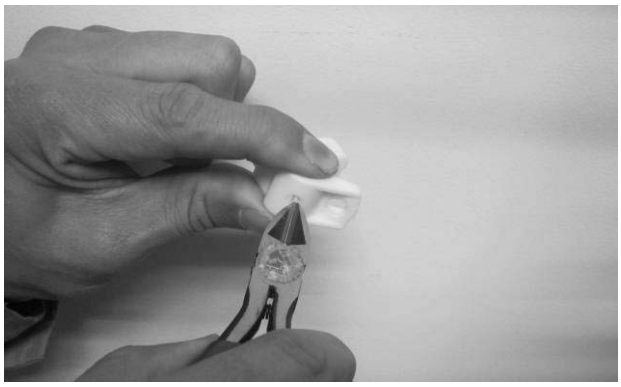
6.6.1 For cable OD=7mm, install the cable onto the cable fixation bracket directly.

6.6.2 For cable OD=8.5/10mm, remove the pre-installed supporting blocks and add on a pair of blocks selected.

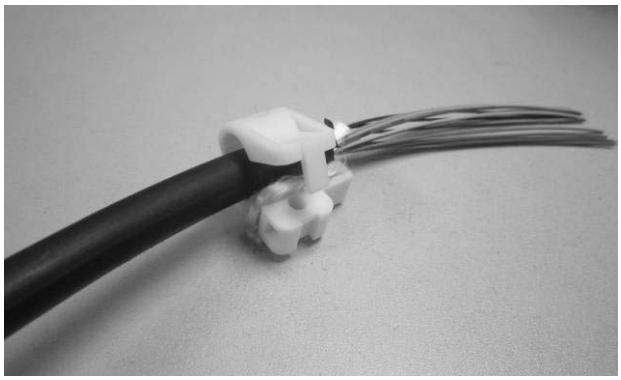
Note: Cable OD=8.5mm, thick pair
Cable OD=10mm, thin pair



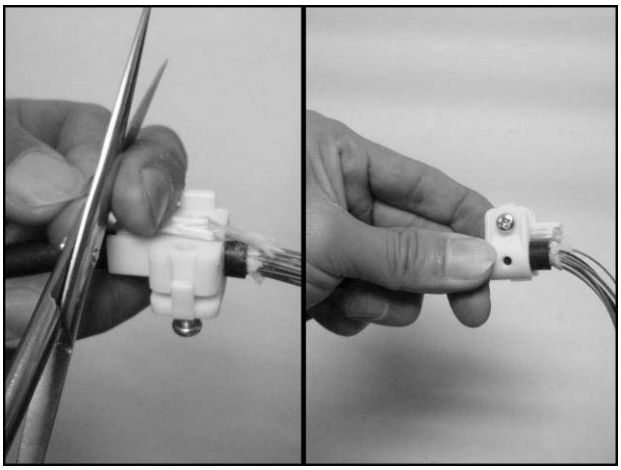
6.6.3 For cable OD=12mm, remove the pre-installed supporting blocks and then install the cable.



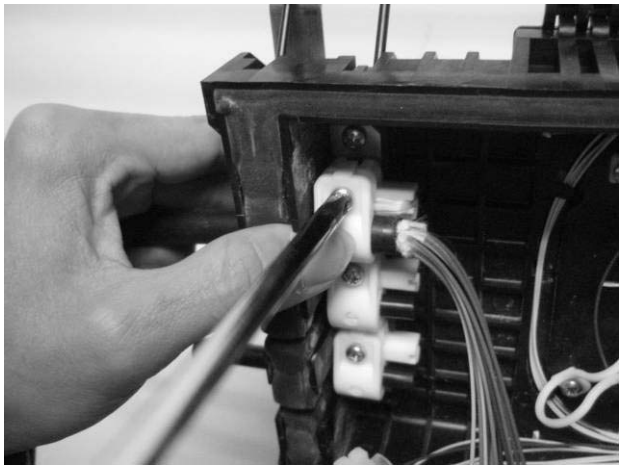
6.7 Wrap the Kevlar around the cable bracket at the slot for 2 circles as shown.



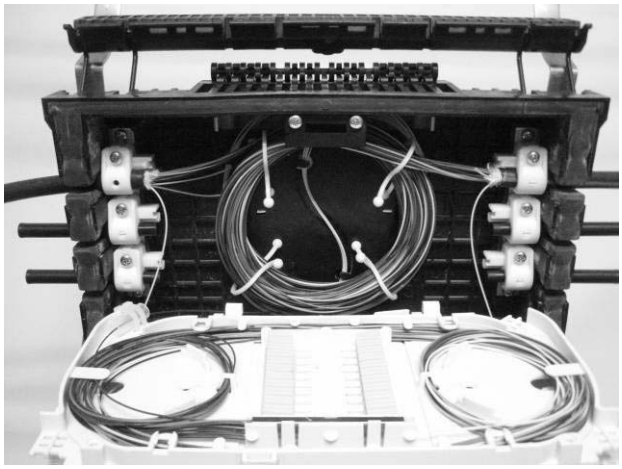
6.8 Remove the excess Kevlar and close the cable bracket.



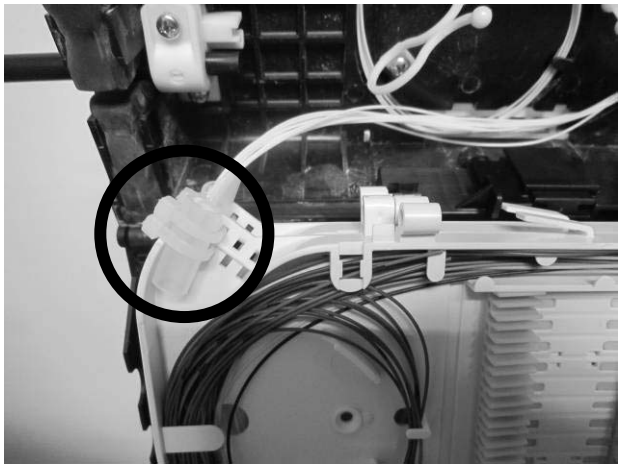
6.9 Secure the cable bracket onto the closure.



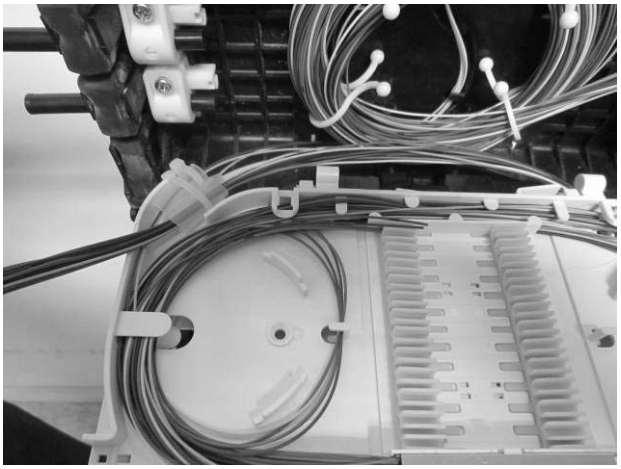
6.10 Coil the loops and bundle the fibers with the twist clasps.



6.11 Secure the transportation tube on the tray entrance with two tie wraps.

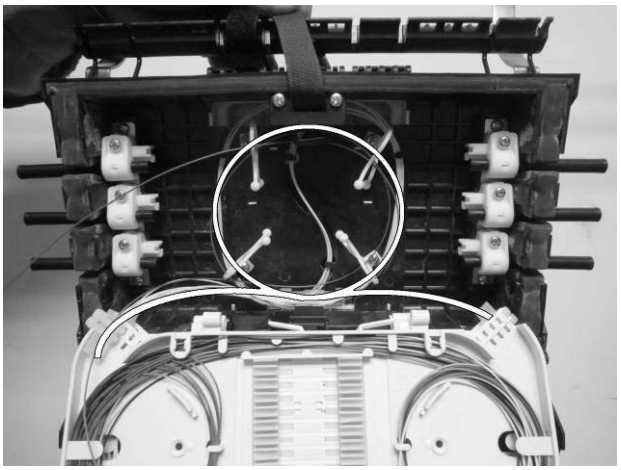


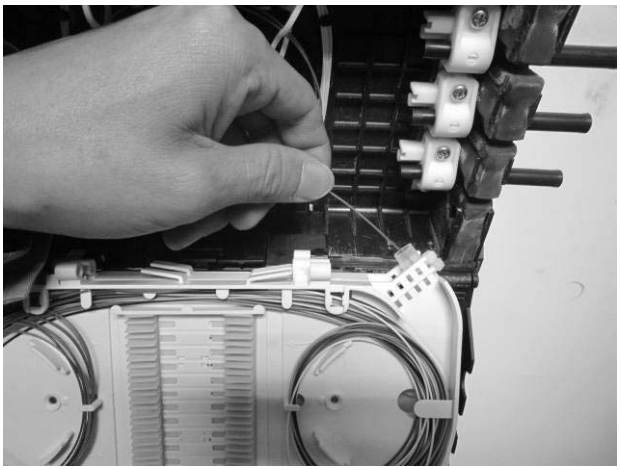
6.12 Put the fibers through the tube.



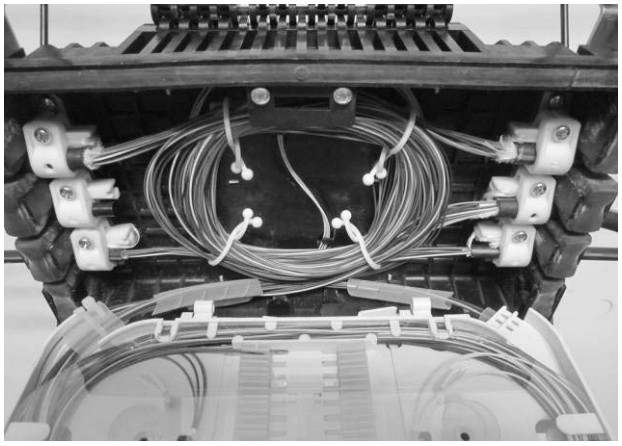
6.13 Store the fibers on the tray properly.

6.14 Transit the fibers from one tray to the other tray.





6.15 Protect the fibers with spiral tube as shown.

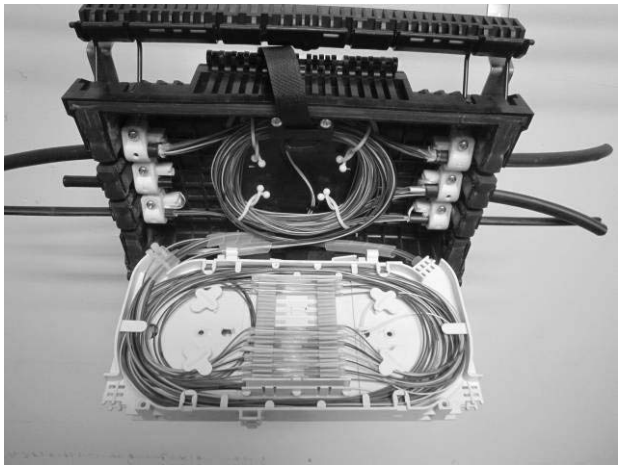


7 Splicing and fiber storage

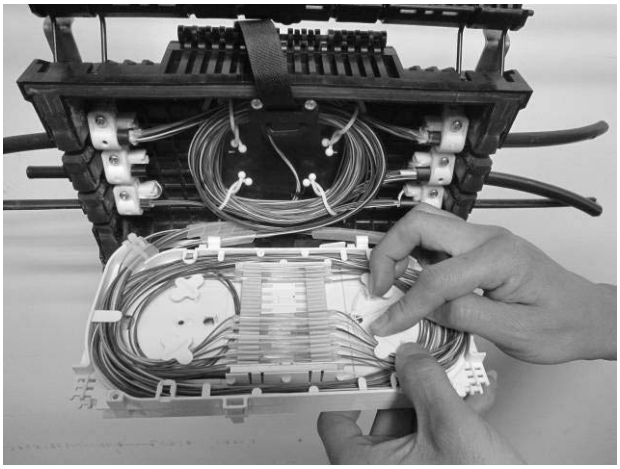
7.1 Position the FDC-B8 close to the splicing machine in a convenient location and secure the closure.

7.2 Slide the heat-shrinkable splice protection (e.g. SMOUV) over one fiber and fuse fibers according to local recommendations and procedures. After the fusion splice is made, install the heat-shrinkable splice protection with an appropriate heating source. Allow the splice protection to cool down to ambient temperature.

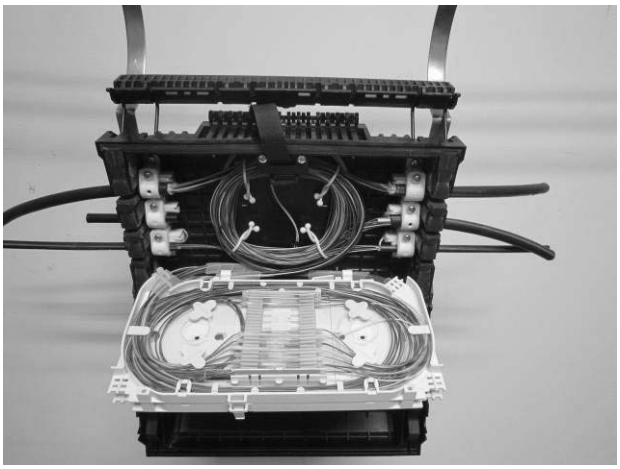
7.3 Splice the fibers. After each splice is made, the splice protector should be stored in the splice holder in the appropriate position. Do not deform the splice protector during insertion.



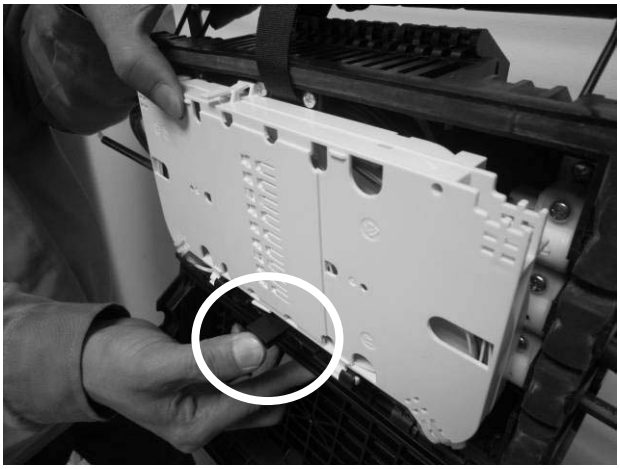
7.4 Add on the butterfly clips.



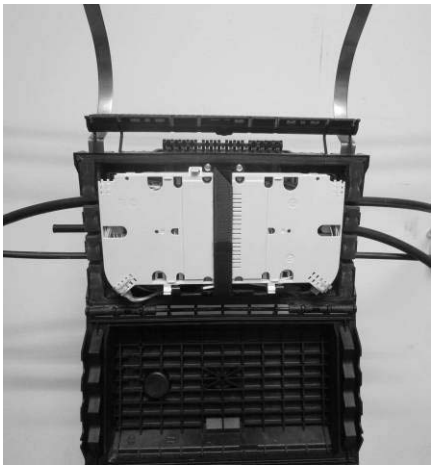
7.5 Add on the tray lid.



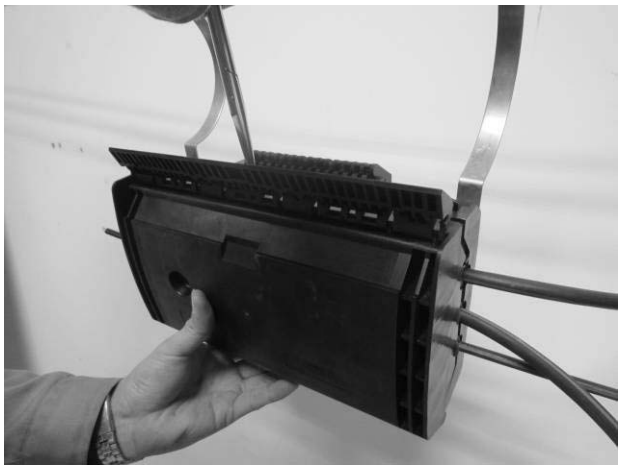
7.6 Close the trays and push the wedge back.



7.7 Secure the trays with the Velcro.

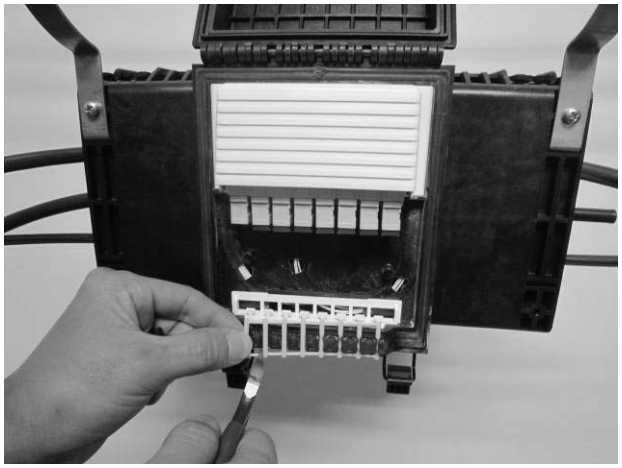


7.8 Close the closure front cover.

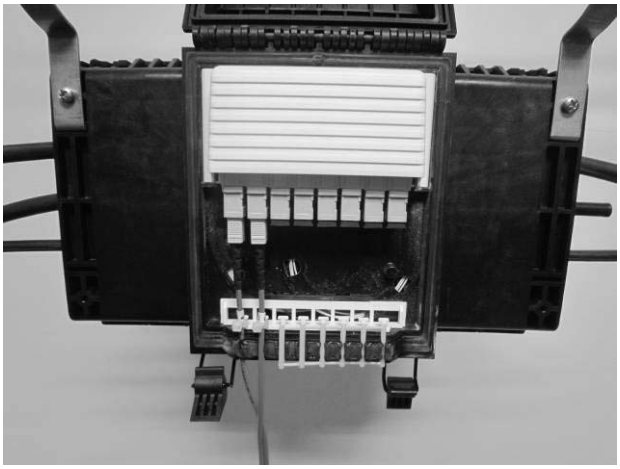


8 Drop cable installation

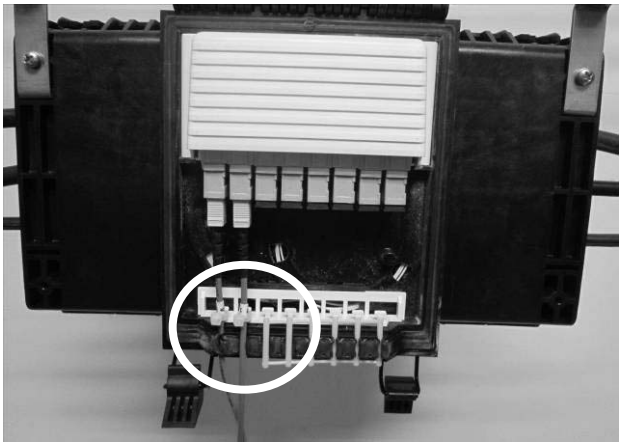
8.1 Remove the dummy rods where drop cables will be installed.



8.2 Install the drop cables as shown.

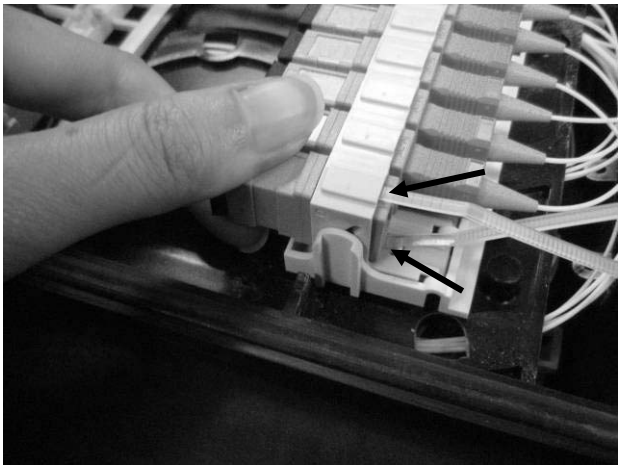


8.3 Secure the drop cables by tie wraps.



9 Adapter replacement

9.1 Insert 2pcs tie wraps into the adapter holder as shown and then remove the adapter.



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