

Fiber Drop Closure for Fiber Access Terminal

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1 General

1.1 Installation Instruction description

The installation instruction describes the necessary steps to install the FDC-W8. The installation instruction illustrates the use on loose tube cables. If other cable types are used, please contact the local agent for relevant accessories and instructions.

1.2 Product description

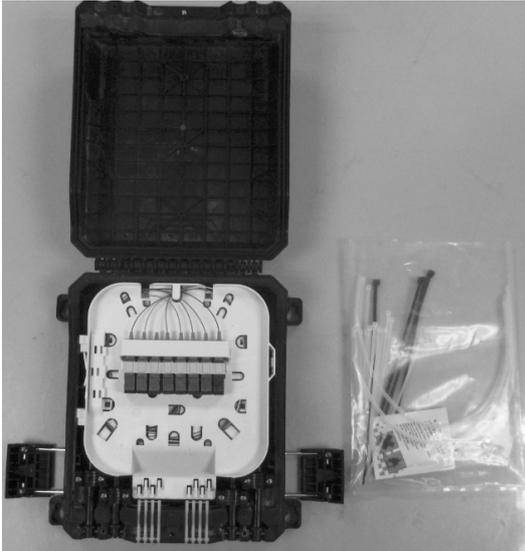
The FDC-W8-FAT is a butt type gel sealed fiber optic splicing and patching closures designed for fiber access point applications in the telecom outside plant network. FDC-W8 FAT has 4 main cable ports and 8 drop cable ports. Loop storage of 6m loose tubes allows 2 main cables loop through at the same time. The closure accommodates up to 24 fusion splices (or 8 mechanical splices), two PLC splitters and 8 SC adapters. Sealing is achieved via built-in gel technology, resulting in extremely convenient re-entry and re-sealing.

2 Sizing and product kit information

2.1 Dimensions

Main Cable diameter range	8-14 mm
Drop Cable diameter:	3mm round cable or 2 X3mm fig.8 cable
Closure outer dimensions	266 x 237 x 76.5 mm

2.2 Kit content



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

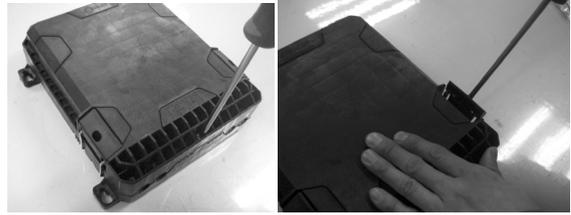
- | | |
|----------------------------------|--------|
| 1. Cover and base with latch | |
| 2. Tray kits | 1 pc |
| 3. Splitter | 1 pc |
| 4. Cable bracket and screws | 4 sets |
| 5. Adaptors | 8 pcs |
| 6. Transportation tubs | 4 pcs |
| 7. Twist wrap and screw | 2 sets |
| 8. Big head screw | 4 pcs |
| 9. Smouv | |
| 10. Ring tree | 2 pcs |
| 11. Dummy rod (small) | 2 pcs |
| 12. Dummy rod (8mm) & snap block | 4 pcs |
| 13. White tie wraps | 12 pcs |
| 14. Black tie wraps | 4 pc |
| 15. Clean tissue | 1 pc |
| 16. Installation instruction | |

3 Installation conditions precautions

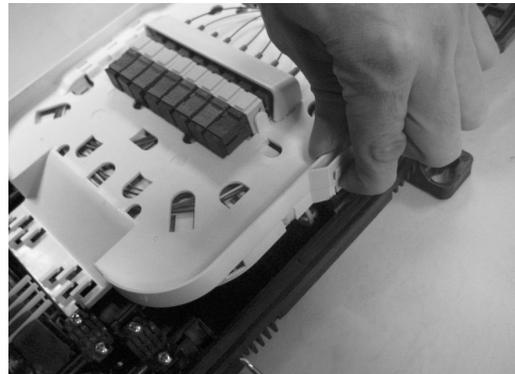
- 3.1 The closures should be installed at temperature between -5°C and 45°C .
- 3.2 Follow the installation instruction steps to ensure the performance of the closure.
- 3.3 It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.

4 Closures preparation

- 4.1 Open the closures by unscrew the all screws on the closure cover, as shown in left below. Then unlatched two sides, as shown, in right below.

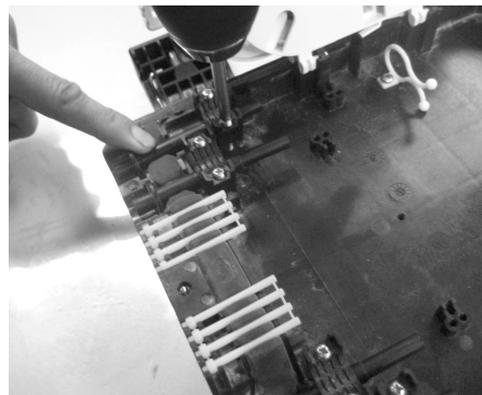


- 4.2 Open the cover. Then open the tray by press-in the tray latch, as shown.



- 4.3 Unscrew the upper clamps where you will install the cable.

Note: Prefer to use manual screwdriver or electric screwdriver in low speed.



4.4 Take out upper clamp and the dummy rods.



4.5 Separate the dummy rod and the blocking ring, as shown

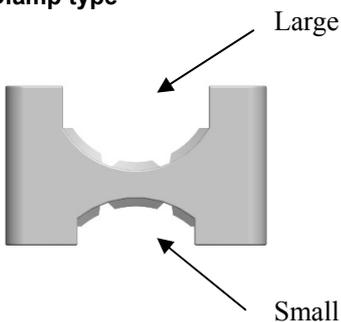


4.6 According to the cable range choose the appropriate side of the cable clamp and remove the white sleeve layer installed on the lower clamp if necessary (refer to Table 1).

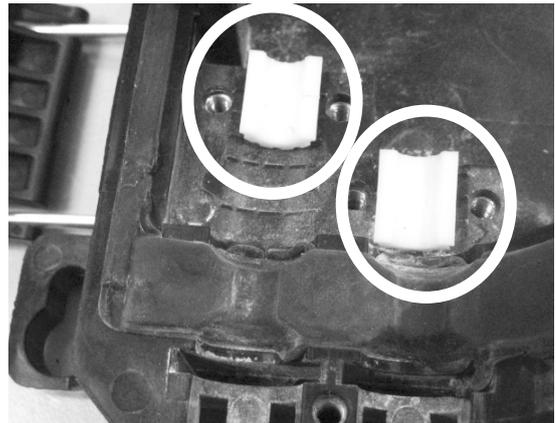
Cable range (mm)	Cable clamp	White snap block	Blocking ring
8-9.3	Small	Yes	Yes
9.3-12	Small	Remove	Remove
12-14	Large	Remove	Remove

Table 1, Cable clamp selection

Clamp type

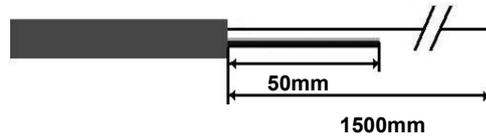


White snap block

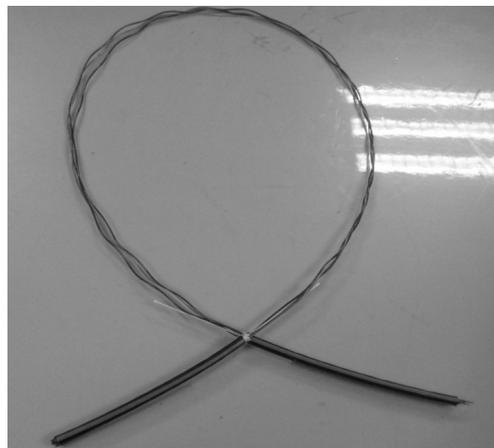


5 Cable Installation

5.1 Make a window cut of 1500mm and cut the strength member up to 50mm from the cable jacket end.



Note: If the cable has jacket covered on strength member, Please remove the jacket before installation.

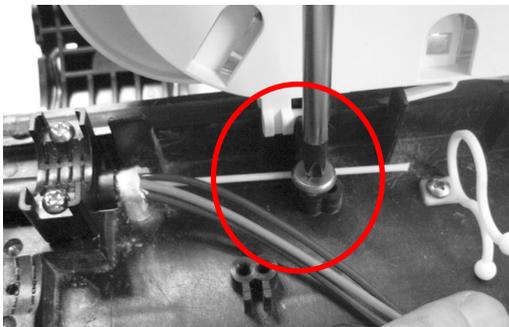
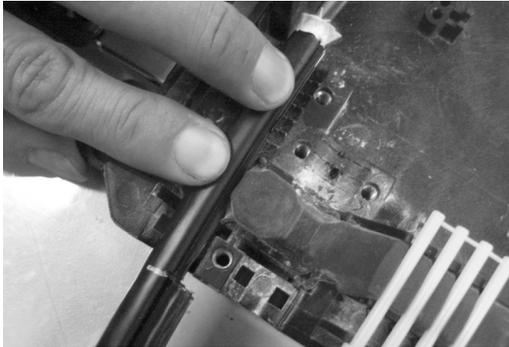


5.2 Clean the cable sheath, where it contacts gel, with cleaning tissue provided.



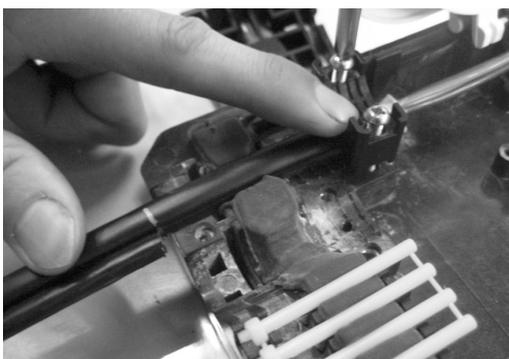
5.3 Fix the strength member underneath the metal screw as shown in **Step 5.4**. Tighten the screw to secure the strength member. Cut the excess off.

5.4 Fit the cable onto the designated cable port and make sure the blocking ring is in the slot, as shown.

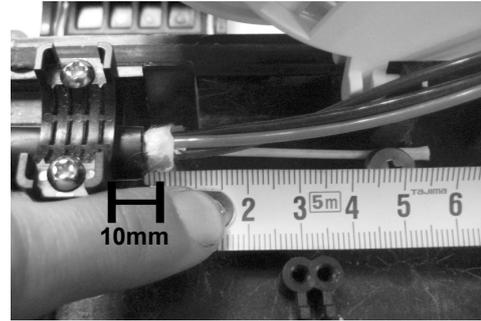


5.5 Screw tight the upper clamps

Note: After slightly tighten the first screw, firmly tighten the second screw. Then, firmly tighten the first screw.



Note: leave 10mm from the clamp end to the tip end for each cable, as shown below.



5.6 Secure cables with tie wraps, as shown. Cut the excess off.



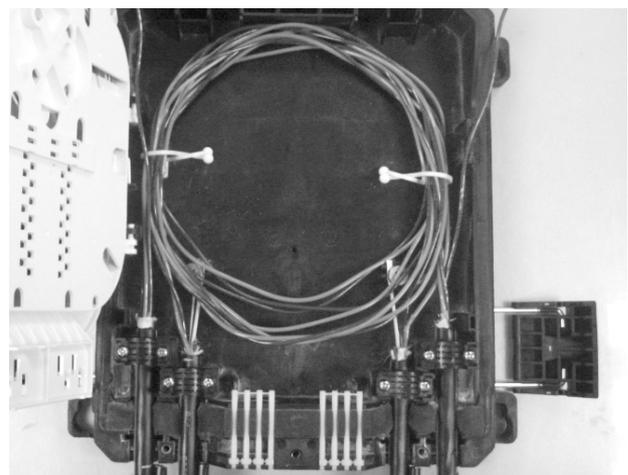
6 Fiber preparation

6.1 Loop the pass-through cable slack, as shown.

Note:

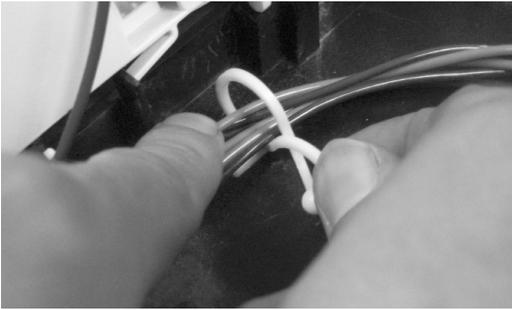
Use Port 1, Port 4 for one loop cable

Use Port 2, Port 3 for second loop cable

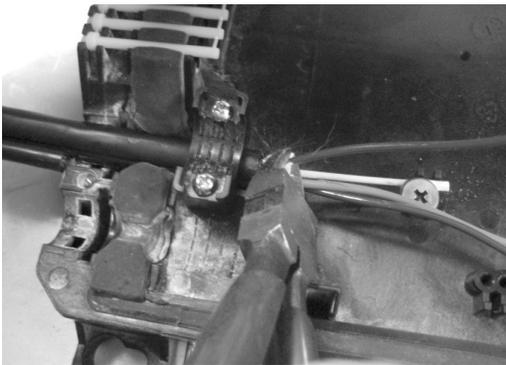


1 2 3 4

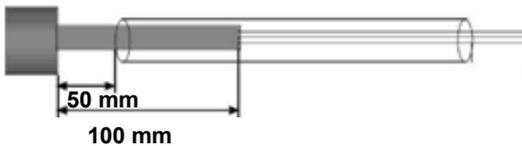
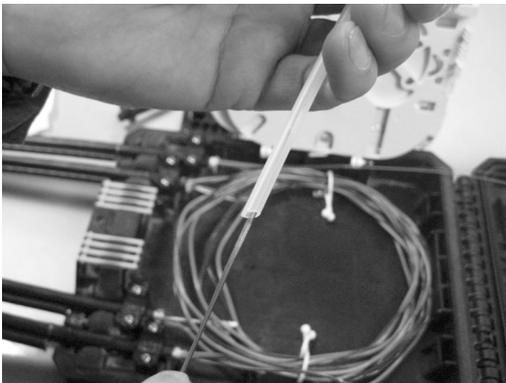
6.2 Secure the pass-through cable slack, as shown.



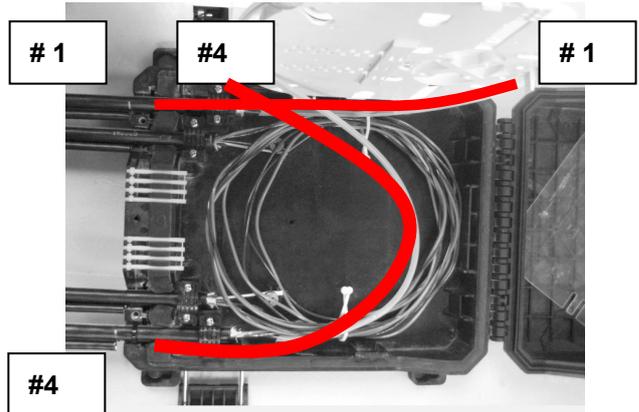
6.3 Strip the input fiber cable



6.4 Degrease the fiber bundle and slide the transportation tubes over the fibers with overlap 50mm

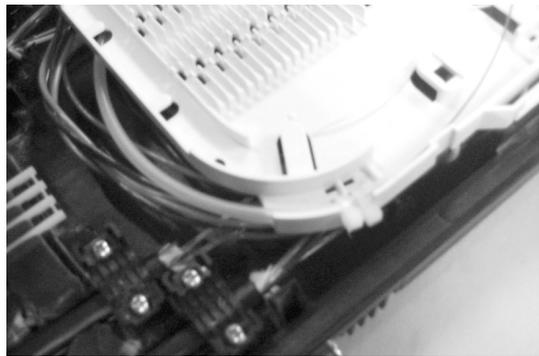


6.5 Route the transparent tubes to the tray entrance, as shown



6.6 Secure the transportation tube at the tray entrance with two tie wraps.

Note: Maximum two transportation tubes per tray entrance.

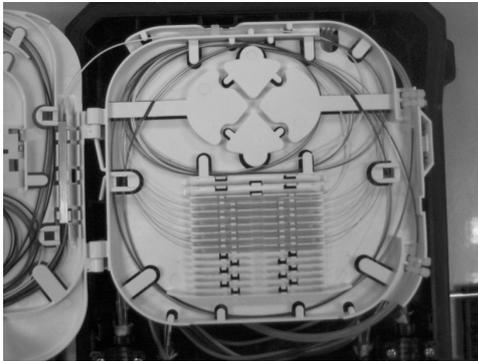


7 Splicing and fiber storage

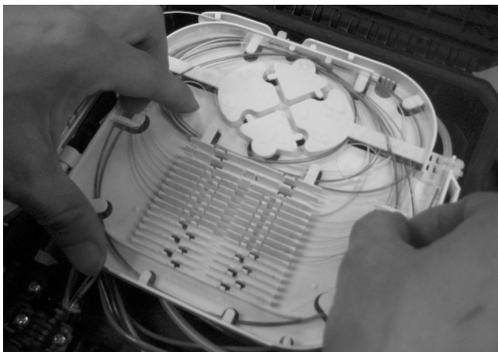
7.1 Position the closure close to the splicing machine in a convenient location and secure the closure

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

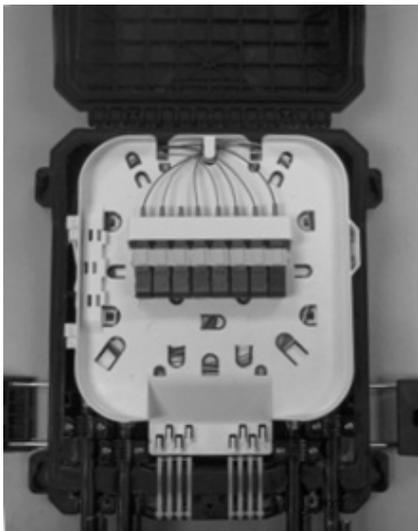
7.3 After each splice is made, the splice should be stored in the splice holder in the appropriate position, as shown. Do not deform the splice protector during insertion



7.4 Put on the tray lid.



7.5 Put back the drop cable tray..



7.6 Close the closure



8 Pole mount installation

8.1 Insert the two pole strips onto the closure, as shown

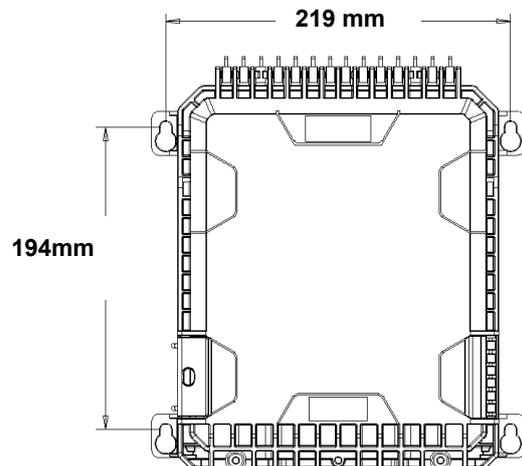


8.2 Screw tight on the pole



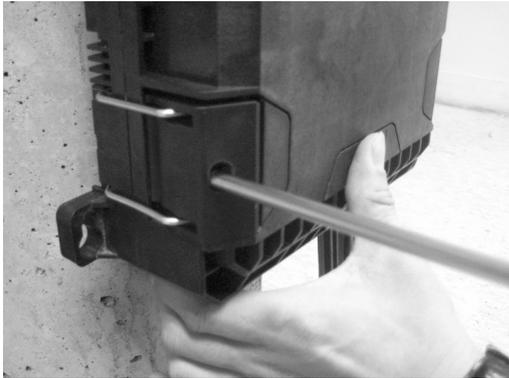
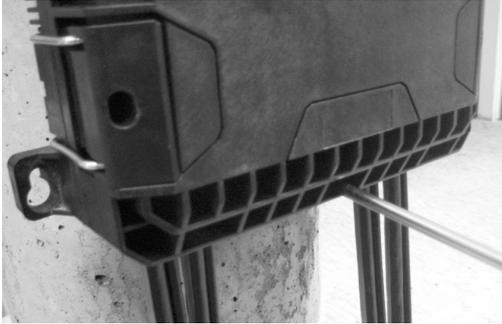
9 Wall mount installation

9.1 Holes dimensions:

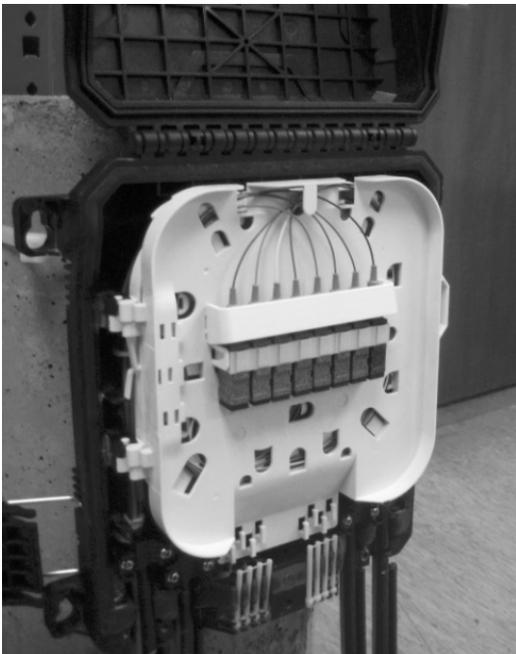


10 Re-entry and drop cable installation

10.1 Unscrew the center screw and unlatch the top cover, as shown.



10.2 Fully open the cover, as shown.



10.3 For easy FIC insertion, tilt the adapter, as shown.

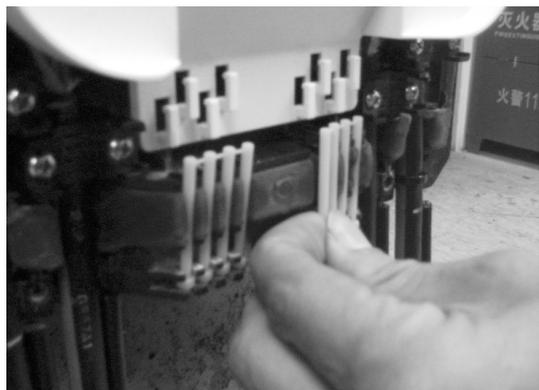


10.4 Complete FIC connector assembly.

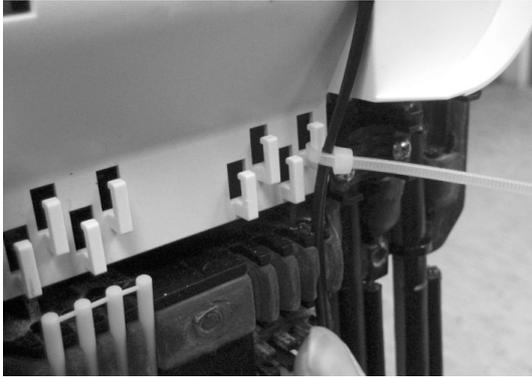
10.5 Remove the dust cap and insert the FIC.



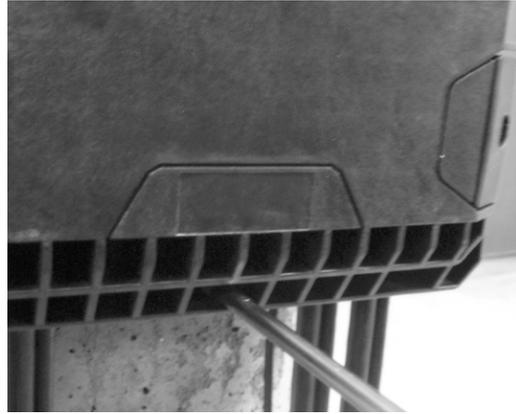
10.6 Remove the drop cable dummy rods



10.7 Horizontally place the Fig.8 cable and use cable tie to fix the cable as shown.



10.9 Close the lid, screw the center screw and latch the top cover, as shown.



10.8 Remove the excessive dummy rod and place the remaining dummy rods back into its original position.

