

## Gel-sealed in-line fiber optic closure

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### 1 General

#### 1.1 Installation Instruction description

The installation instruction describes the necessary steps to install the SCIL-C. 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

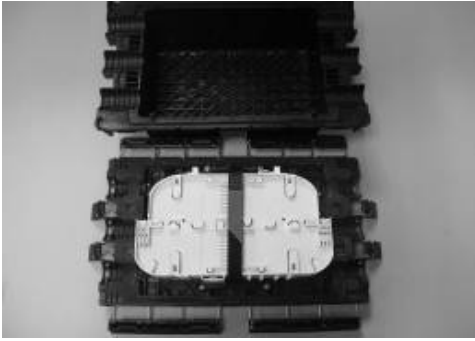
The SCIL-C is a gel sealed fiber optic splice closures designed for cable joint applications in the telecom outside plant network. The closures have maximum splicing capacity of 288F (6pcs trays and one tray with 2pcs changeable splice protectors holders and one holder capacity is 24F) and are suitable for deployment in aerial, underground or direct buried environments. Sealing is achieved via built-in gel technology, resulting in extremely convenient re-entry and re-sealing. The closure has six cable ports, three on each side.

### 2 Sizing and product kit information

#### 2.1 Dimensions

Cable diameter range	7~23 mm
Closure outer dimensions	350 x 216 x140 mm

## 2.2 Kit content



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

1. Cover and base with latches
2. Splice tray kit (optional)
3. SMOUV (optional)
4. Gel tape 6 rolls
5. Transportation tubes (optional)
6. Cable fixation bracket 6 pcs
7. Hanger brackets and screw (optional)
8. Dummy rod 6 pcs
9. Ring Tree (Large) 12 pcs
10. White tie wraps
11. Black tie wraps
12. Cleaning tissue
13. 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.

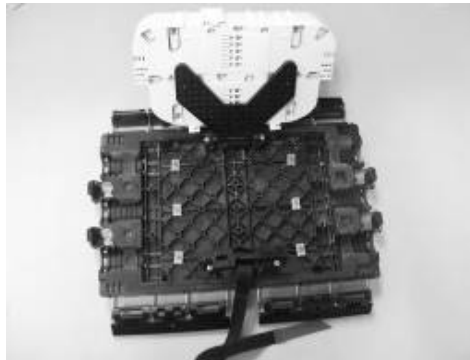
- 3.3 It is necessary to take precautions and keep the working space clean to protect the closure sealing materials and splices.

## 4 Cable preparation

- 4.1 Open the closure, as shown:



- 4.2 Open the Velcro and tray kit.



## 5 Cable installation

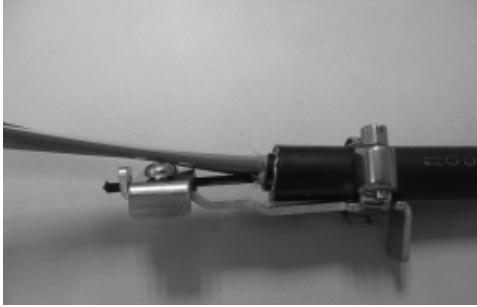
- 5.1 Remove the cable sheath according to below length:  
Strengthen member length: 45mm  
Loose tube lengthen: 1500mm



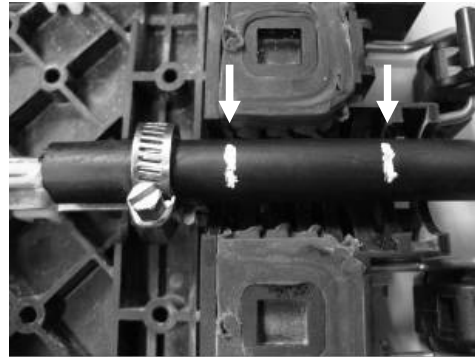
- 5.2 Lead cable and cable bracket go through the hose clamp and positioned strengthen member in the hole of fixed pole.



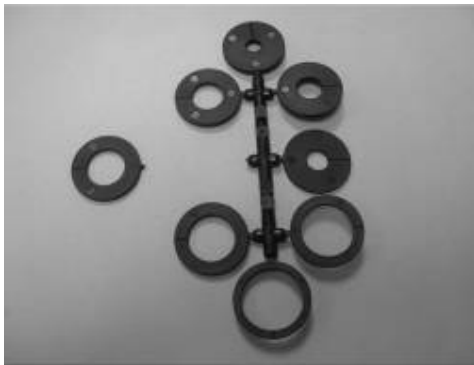
5.3 Tight the strengthen member by screw and keep the strengthen member out of the fix pole at 3~5mm.  
Tight the hose clamp with cable and cable bracket.



5.7 Mark the position where rings will be installed.



5.4 Select the ring with the hole's size a little bigger than cable diameter and take it off.



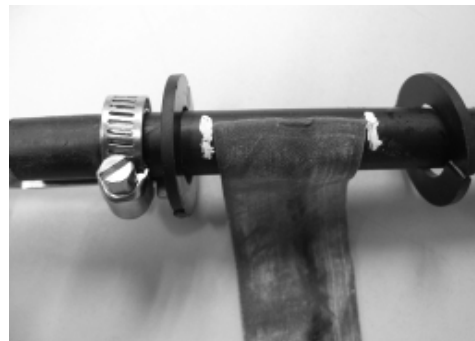
5.8 Install the cut rings on the cable.



5.5 Cut the ring at the mark.



5.9 Tear off the gel strip and wrap it between the two rings. Press the opening of gel strip firmly while start and finish to ensure the gel strip flat and no pulling during wrap.



5.6 Clean the cable where will be wrapped by gel tape by clean tissue.



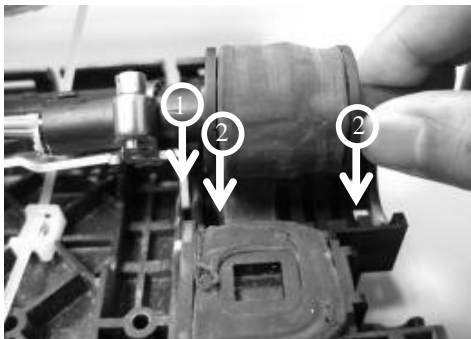
5.10 Diameter of wrapped gel strip should be one circle higher than ring. Cut the gel tape at the direction of the bending of cable bracket which can ensure the sealing by keeping the gel strip opening under the cable.



5.11 Install a white tie wrap on the guider.



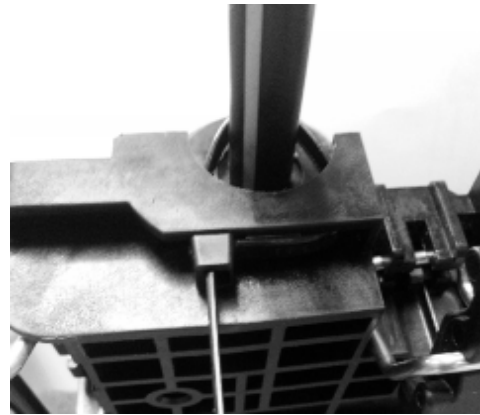
5.12 Position the cable with the pre-installed cable sealing block into the cable port and insert the cable bracket into the holding slot as picture shown, bending of cable bracket should be in slot 1 and two rings should be in slots 2 as shown in picture.



5.13 Tight white tie wrap with cable bracket and remove the spare length.



5.14 Fix the cable at the cable ports by black tie wrap and remove the spare length.



5.15 Repeat step 5.1 to 5.12 to install other cables in other cable entries.

5.16 Wrap the gel strip onto dummy rods.



5.17 Put the wrapped dummy rods onto blank cable entries.

Notice:

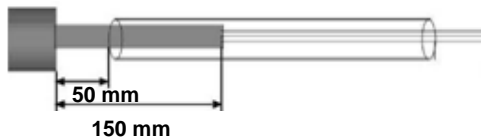
1. Hole towards outside
2. Cut of gel tape towards closure base



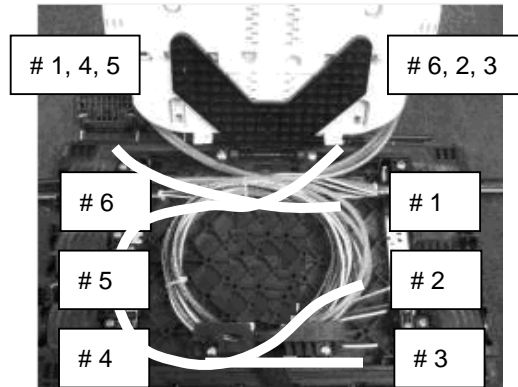
## 6 Fiber preparation

6.1 Remove the loose tube, just keep 150mm away from cable sheath opening and clean fibers by cleaning tissues.

6.2 Slide the transportation tubes over the fibers with overlap 100mm.



6.3 Lead the fibers to the fiber splice trays by transfer tubes according the routine in picture.



6.4 Fix the transfer tubes on the splice tray by white tie wraps at the fiber entries.

Notice: 2pcs transfer tubes can be fixed in each slot of the fiber entry in the splice tray in maximum.

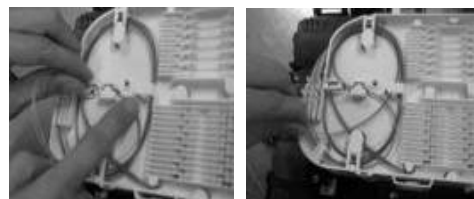


## 7 Fiber splice and storage

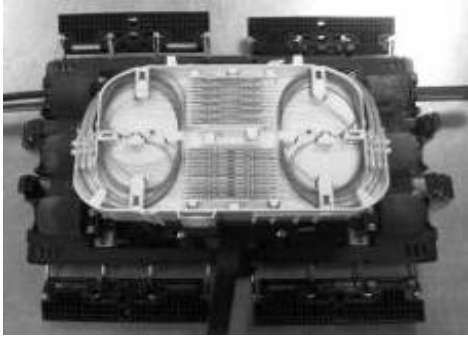
7.1 Position the SCIL-C close to the splicing machine in a convenient location and secure the closure.

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. Do not deform the splice protector during insertion.



7.4 Install the tray lid.



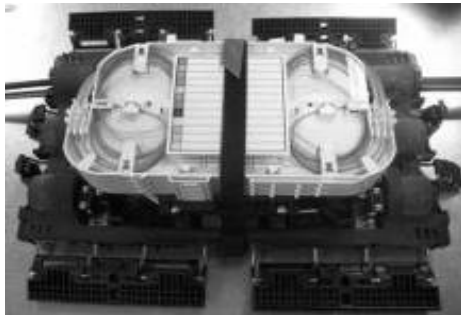
7.5 Lock the trays by clips.



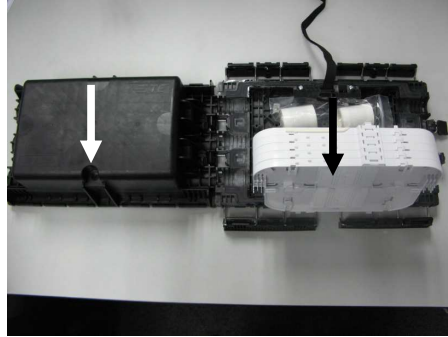
**Notice:** Please use pin to take the SMOUV out of the tray for maintenance as shown in picture:



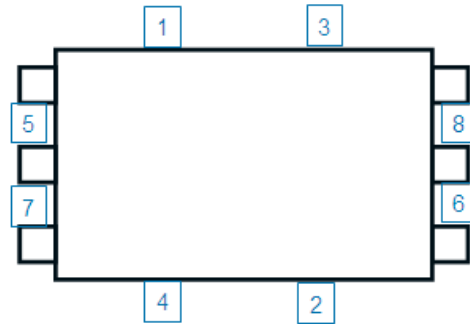
7.6 Fix the splice tray by black tape.



7.7 Close the closure cover and make sure it is in right direction: **AIR VALVE PORT CLOSED TO THE TRAY HINGE SIDE.**

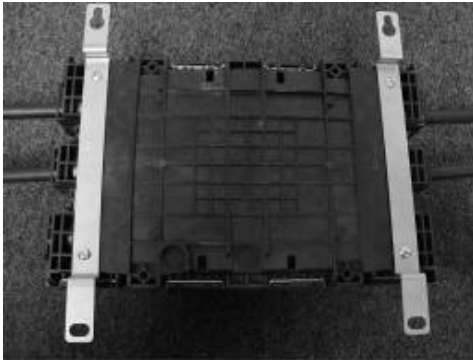


7.8 Close the closure by latches in the proper sequence shown in picture.

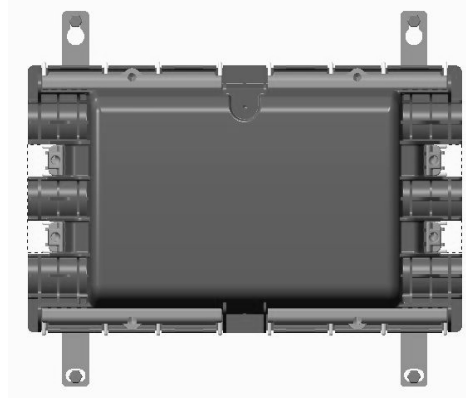


## 8 Wall mount kit installation

8.1 Install two wall mount bracket on the rear side of closure. Base



8.2 Install closure on the wall by extension bolt kit.



## 9 Re-open

Open all latched in the reversed order as described in 7.4.

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