

Fiber Optic Splice Closure FOSC 144-R5-SP18

Instruction Manual



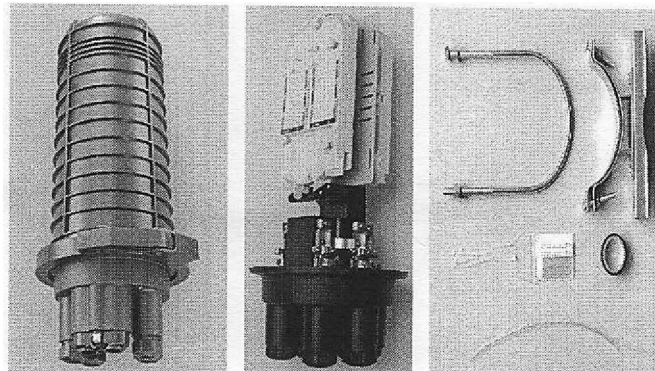
1. Introduction

FOSC 144-R5-SP18 fiber optic splice closure provides protection over direct connection, branch and continual connection for cables. The original mechanical sealing which has been tested reliable has won the national patent. It is applicable to many installations: pole-mounting, aerial, wall-mounting, and ground-burial.

2. Specifications

Dimensions (mm)	450*Ø230	Max capacity (single core)	48 cores
Weight (kg)	4.2~4.8	Type of sealing	Mechanical
Number of entrances	5 entrances (4 for single cable, 1 for uncut cable.)	Capacity of single tray	24 cores
Diameter of suitable cable(mm)	Small port: Ø8~Ø17.5 Elliptical port: Ø10~Ø17.5		
Max number of trays	2	Insulating resistance	>2x 10 ⁴ MΩ
Environmental temperature	-40°C...+65°C	Voltage resistance strength	15KVdc/1min,no puncture, no arc-over

3. Physical Drawing



4. Operation Instructions

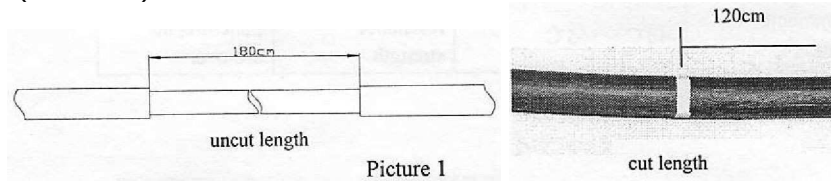
4.1 Preparation Pre-operation

- 4.1.1 Check the type and accessories of the splice closure and cable before installation.
- 4.1.2 All components of the splice closure must be kept dry and clean, easy for installation.

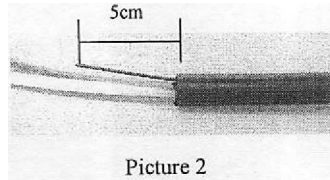
4.1.3 The working site must be kept clean (free from dampness and dust) and flat, easy for installation.
 4.1.4 Standards instruments and tools should be adopted while installing.

4.2. Operation of Fiber Optic cable

4.2.1 Stripping length. (Picture 1)



4.2.2 Cut off the core wire (Picture 2)

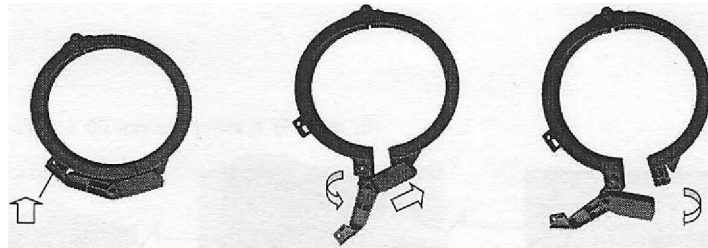


Precautions:

- Do not damage the optical cable;
- In case of an accident, please cut the damaged cable and re-strip it.

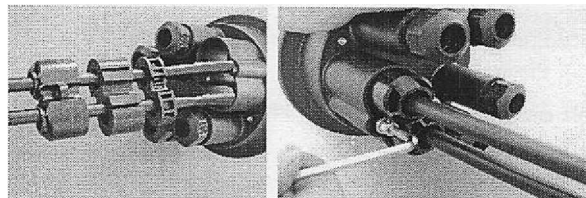
Operation of Splice Closure

4.3.1 Open the splice closure.



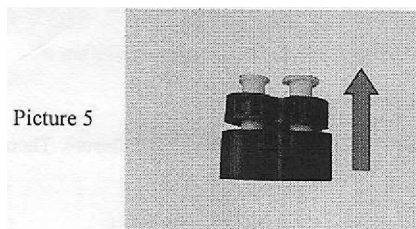
4.3.2 Installation procedures of the big port

4.3.2.1 Put the pressing block and two diplopore seal rings on the cable in order; then, put the cable through the cable entrance and fix the cable and core wire; finally, tight the screw to have it fully sealed (Picture 4)



Picture 4

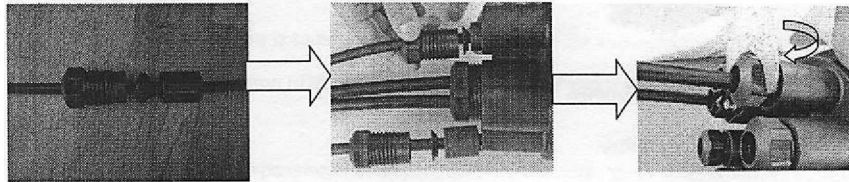
4.3.2.2 In the cable entrance without cable, put the diplopore check ring and diplopore seal ring on the small port of the plug in order, and put the big port into the cable entrance, then seal it with diplopore pressing block. (Picture 5)



Picture 5

4.3.3 Installation procedures of small cable entrance

4.3.3.1 Put the nut M31, plastic washer and seal ring on the cable in order; then put the cable through the cable entrance and fix the cable and core wire; finally, tight the nut to have it fully

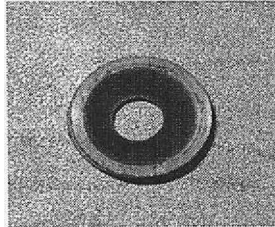


Picture 6

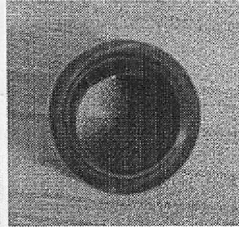
Precautions:

41# seal ring is for cable diameter $\leq \varnothing 12$ (Picture 7) ;

14# seal ring is for cable diameter $> \varnothing 12$ (Picture 8) .

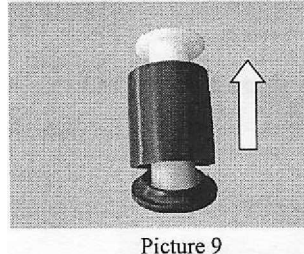


Picture 7



Picture 8

4.3.3.2 In the cable entrance without cable, put 14# seal ring, plastic washer on the small port of the plug, then, put the big end into the cable entrance and tight the nut to have it sealed. (Picture 9)



Picture 9

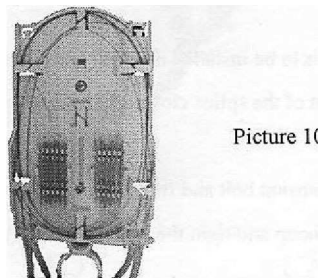
4.3.4 Box Sealing

Put the sealing strips into the box and put on the top box of the splice closure. Then, seal the box with the hoop.

Precautions: Keep the cable and splice closure in line and do not bend.

4.3.5 Cable welding and storage

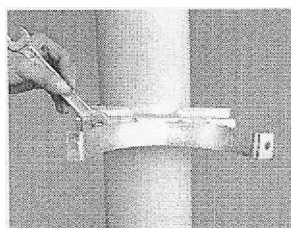
While coiling the cable, follow reversed figure "8" with the bending radius $> 30\text{mm}$. Coil the remaining cable on the tray and cover it. (Picture 10)



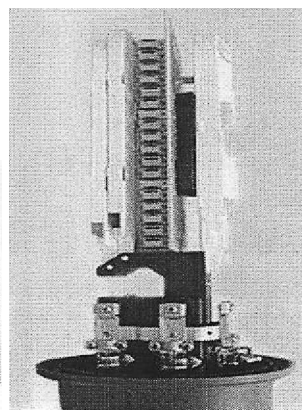
Picture 10

4.3.5 Installation of optical splitter and adaptor, (selective)

Installation of adaptor PLC module



Picture 11



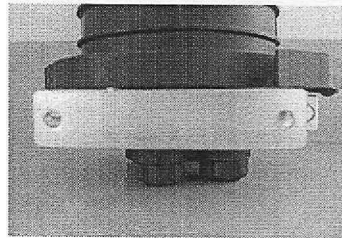
4.4 Laying and Installation of Splice Closure

A. Pole-mounting

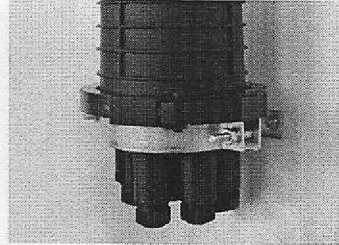
- a. Fix the hoop onto the pole with a screw and tight the nut;
- b. Fix the box with the hoop and tight the nut. (Picture 11)

B. Wall-mounting

- a. Mark where the splice closure is to be installed and drill a hole for expansion bolt according to the dimension of the splice closure 110mm (Picture 12), then fix the bolt.
- b. Connect the hoop with the expansion bolt and fix them on the wall, then tight the nut
- c. Fix the splice closure with the hoop and tight the nut. (Picture 13)



Picture 12



Picture 13

5. Service

We are grateful to you for your choice of our products. If there is any defect or other problem while using, please feel free to contact us by calling us or sending e-mail. We will try our best and supply prompt service to you. To acquire more information about our products, you can also visit our website.