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Fibre Management

Fiber Optical Splice Closure
Instruction Manual



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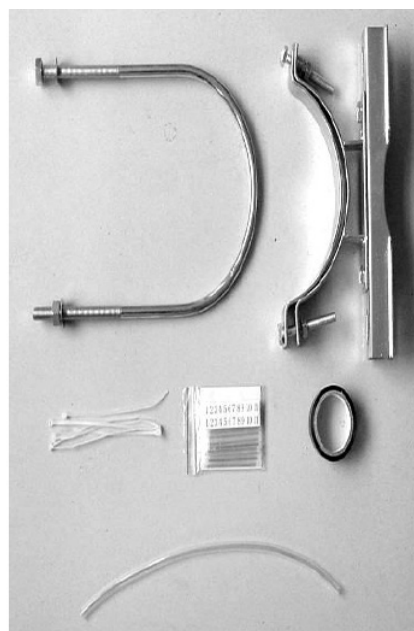
1. General Introduction

This type of splice closure could support optical cable link and branch. The unique mechanical sealing design owns national patent and a perfect sealing. It's suitable for wall-mounting, aerial, pole-mounting and grounding buried.

2. Specification

Dimension(mm)	465×Φ260	Maximum capacity (single core)	240 Cores
Weight (Kg)	4.2~4.8	Sealing method	Mechanical
Numbers of cable ports	6 ports (4ports for single cable, 2ports for uncut cable)	Maximum capacity of one tray (single core)	24 Cores
Diameter of suitable optical cable(mm)	Small holeΦ8~Φ17.5 Big holeΦ10~Φ17.5 Elliptical holeΦ10~Φ17.5	Insulation resistance	≥2×104MΩ
Maximum numbers of trays	10	Voltage resistance strength	15KVDC/1min no puncture, arc-over
Environment temperature	-40℃ ~ +65℃		

3. Physical drawing





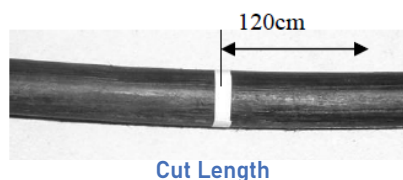
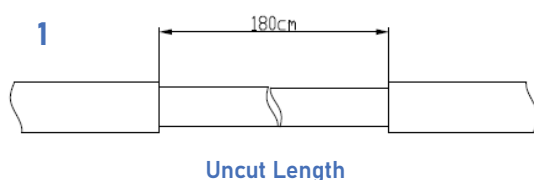
4. Instruction of operation

4.1 Preparation of Pre-operation

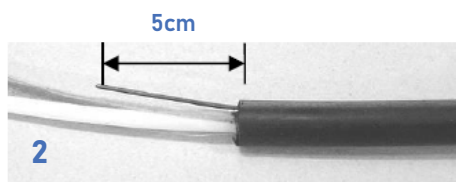
- 4.1.1 Check the splice closure, cable type and accessories before installation.
- 4.1.2 Keep all components dry and clean for installation.
- 4.1.3 Keep working environment clean (dry and no dust) and flat for installation.
- 4.1.4 Standard instruments and tools should be used during installation.

4.2 Operation of optical cable.

4.2.1 Stripping length (Picture 1)



4.2.2 Cut the reinforced core (Picture 2)



4.3 Operation of splice closure

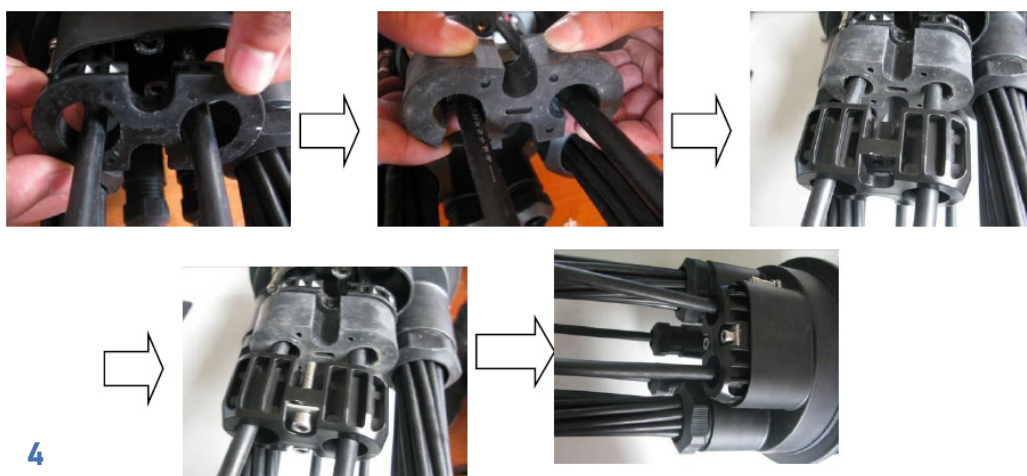
4.3.1 Open the closure (Picture 3)





4.3.2 Installing procedures of ellipse port

4.3.2.1 Put the uncut optical cable into the port, fix the reinforced core and cable, then put the two holes base plate, two holes sealing ring, two holes compact device, two holes connecting device, inner hexagon screw into the cable successively to ensure complete sealing. (Picture 4)



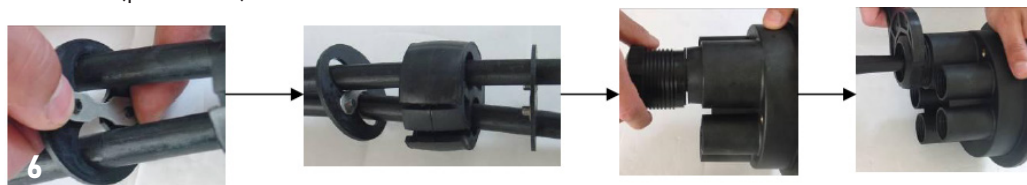
4.3.2.2 Put the two holes base plate, two holes sealing ring into the small head of the plug successively, and put the big head of the plug into the non cable entrance. Seal the non cable entrance by two holes pressing plug. (Picture 5)





4.3.3 Installing procedures of big port

4.3.3.1 Put the $\phi 52$ retainer ring, metallic block, $\phi 52$ sealing ring, metallic block, $\phi 52$ retainer ring into optical cable successively, then put the cable into the entrance. Fix the the optical cable and reinforced core, and fastened the M55 gland nut to ensure the perfect sealing. (picture 6)



4.3.3.2 Put the $\phi 52$ retainer ring, metallic block, $\phi 52$ sealing ring, metallic block, $\phi 52$ retainer ring into the small head of the plug successively, and put the big head of the plug into the entrance. Seal the non cable entrance by M55gland nut. (Picture 7)



4.3.4 Sealing and installation of small cable port

4.3.4.1 Put the screw M31 nut, one plastic gasket, sealing ring into the cable successively, then put the cable into entrance. Fasten screw M31 nut sufficiently to ensure complete seal. (Picture 8)



Precaution: Use item14 sealing ring for the cable diameter $< \Phi 10$ (picture9), and item15 sealing ring for the cable diameter $> \Phi 10$ (picture10).





4.3.4.2 Put item14 sealing ring and plastic gasket into the small head of the plug, and put the big head of plug into cable entrance. Seal the non cable entrance by gland nut.(Picture 11)



4.3.5 Distribution and protective fixing.

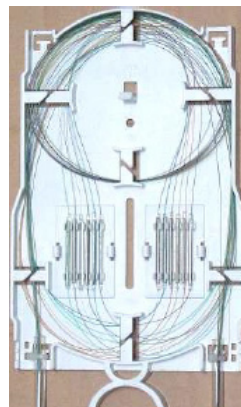
Put fiber into EVA soft tube and fix it at the entrance by nylon tie.

4.3.6 Welding and storage

While welding and coiling the fiber, the bending radius is $\geq 30\text{mm}$, with a coiling direction of the reversed figure "8".

Store the remain fiber in the tray and cover the tray.(Picture 12)

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4.4 Sealing

After the operation of cable, put the sealing strip into the box, cove the sleeve, then fix the box by hoop.

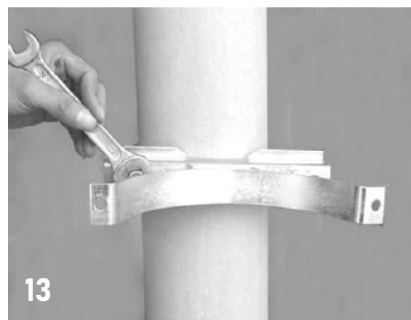
Precaution: Keep the cable and the splice closure in line do not bend.

4.5 Tests of optical cable and sealing

You'd better make the gas-filled test after installing the box(depends on costumer). Must keep the grounding protection safe (costumers decide whether they need gas valves and grounding protection device or not)

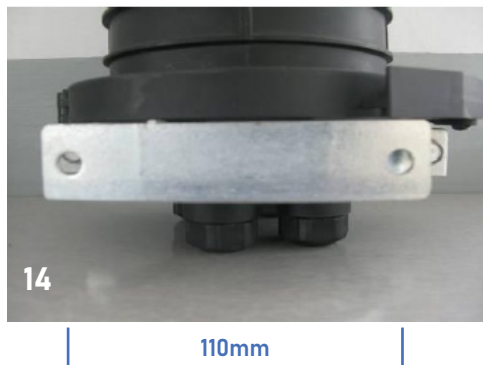
4.6 Installation of splice closure

- A. Pole-mounting
 - a. Fix the hoop on the pole by screw, and fasten the screw.
 - b. Fix the box by hoop, and fasten the screw. (Picture 13)





- B. Wall-mounting
- Mark the place 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 14), then fix the $\Phi 8 \times 60$ mm bolt.
 - Connect the hoop and the expansive bolt, and fix them on the wall, also fasten the screw nut



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-mails. We will try our best and supply prompt service to you. To acquire more information about our products, you can also visit our website.