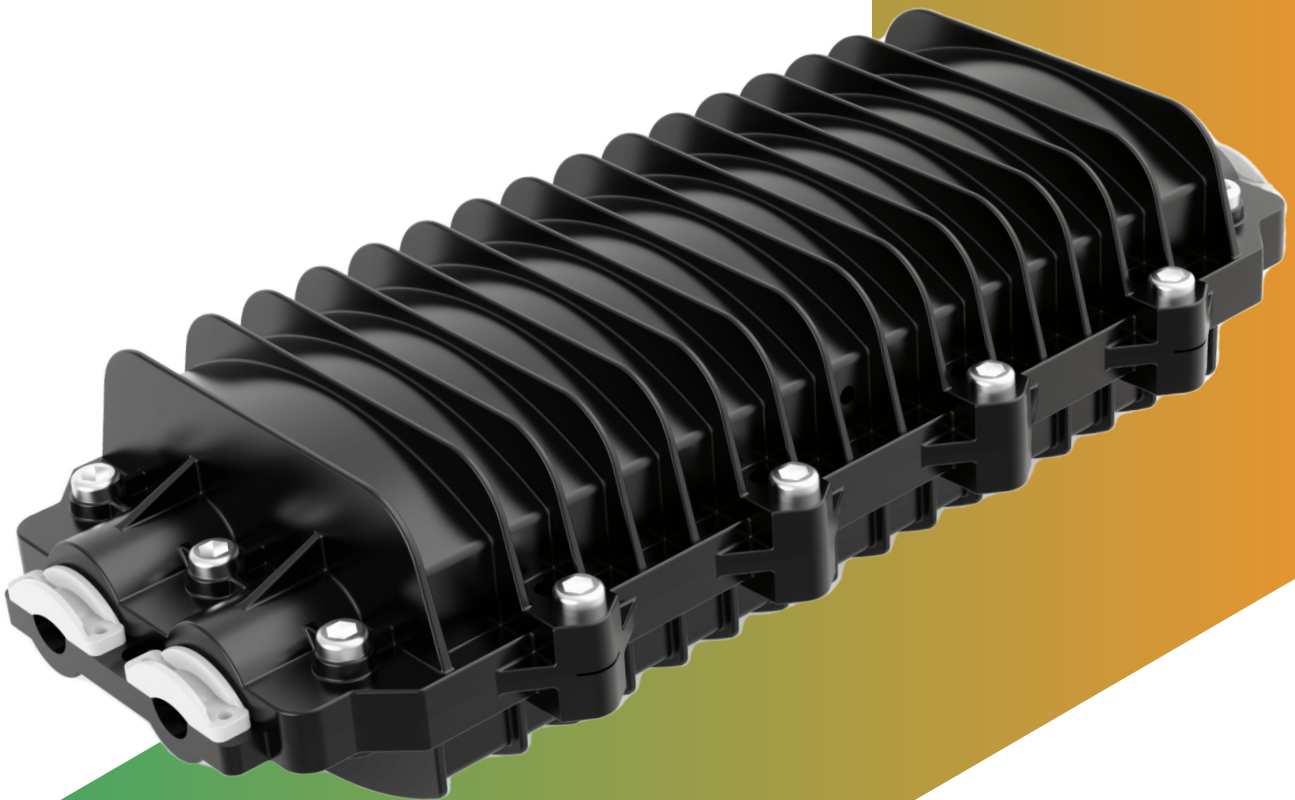


# GJS-III-6020 Fiber Optical Splice Closure Installation Manual

Version:1.0



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1.0 General introduction

GJS-III-6020 fiber optic splice closure can be adopted for the aerial use, underground use and cable manhole use through wall hanging, please choose suitable accessories for the installation based on specific situations. The splice closure is totally of 4 fiber access holes, and can achieve docking, cable cutting or divergent fibers joint installation. The access holes on the splice closure can be sealed by coiling a small amount of sealing tape on the optical cable, which will thus play a role in waterproofing and moistureproofing.

When the fiber optic splice closure needs to be reopened, you only need to unscrew screws on the closure to open it.

2.0 Technical specification

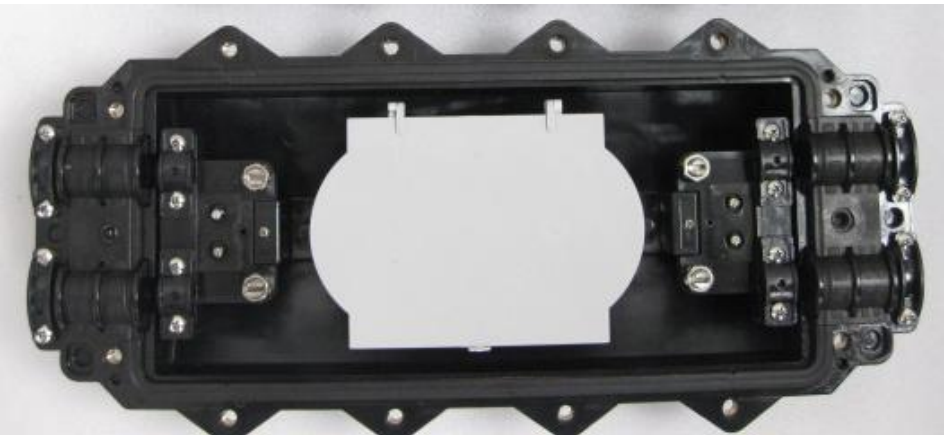
2.1 Structure dimension:

Minimum bending radius  $R > 37.5\text{mm}$

Maximum overall dimension (Length x width x height) 474 x 222 x124 (mm)

Product weight (all accessories are excluded)..... about 2800g

The maximum cable outer diameter for the four cable access holes  $\Phi 16\text{mm}$



2.2 Maximum capacity of the pad:

| Cable fiber variety        | Amount of pads    | Capacity of a single pad | Maximum capacity of the closure |
|----------------------------|-------------------|--------------------------|---------------------------------|
| Loose fibers (bunchy)      | Pad-056# 3 pieces | 24 fibers                | 72 fibers                       |
| Banding 8-fibers (banding) | Pad-056# 3 pieces | 6 bands                  | 144 fibers                      |

### 2.3 Applicable temperature:

- -1~+45°C (recommended temperature for operation)
- -50~+70°C(storage and transportation)
- -40~+65°C(service temperature)

### 2.4 Service life: 25 years

## 3.0 General structure drawing

### 3.1 General structure drawing of the GJS-6019 fiber optic splice closure



### 3.2 Tools for installation:

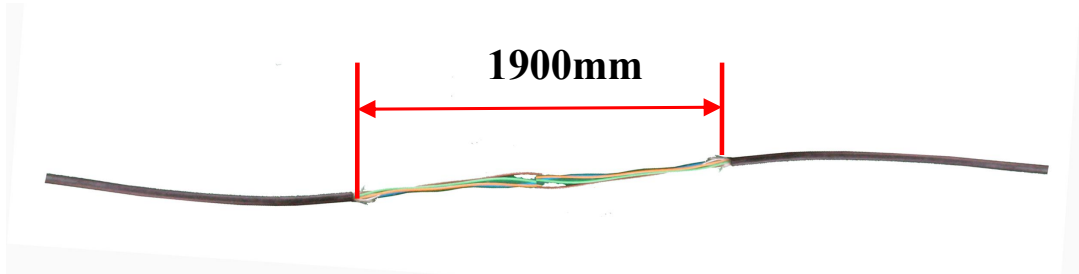
- Optic cable cutter
- Optical cable stripping device
- Cross and straight screwdrivers
- Wire-cutter
- Monkey wrench
- Flexible rule
- Electrician scissors
- Welding machine
- Equipped special wrench

## 4.0 *Points for attention*

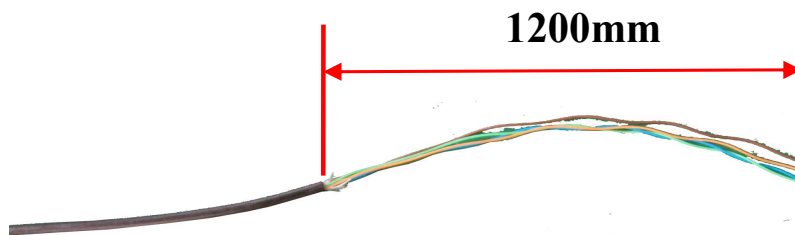
*The tightness of the splice closure depends on whether the operation is conducted in strict accordance with the instructions and whether required materials for sealing are used; improper operation may cause leakage or damage to the closure; please keep the sealed part clean and keep it away from grease in order to ensure the intact tightness.*

## 5.0 Strip the optical cable

- 5.1 When you strip the direct optical cable, you are supposed to strip the cable sheath of 1900mm in length, set aside the intensified cable core of about 50mm, and cut off the redundant part.



- 5.2 When you strip the divergent optical cable, you are supposed to strip the cable sheath of 1200mm in length, set aside the intensified cable core of about 50mm, and cut off the redundant part.



## 6.0 Open the fiber optic splice closure

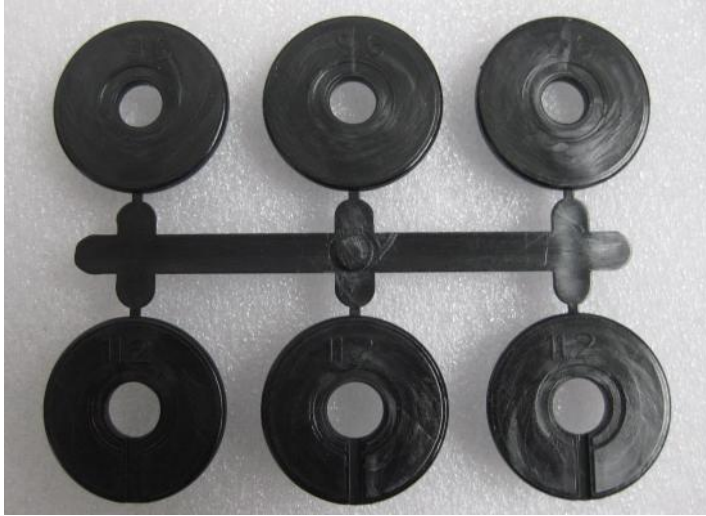
Open the closure with the Allen wrench in accordance with the sequence shown in the following figure.



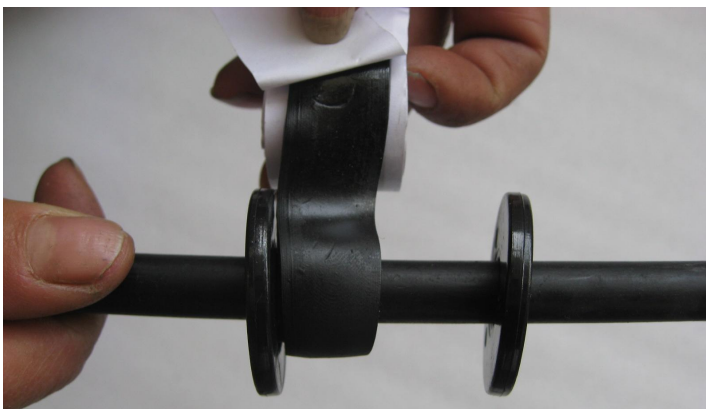
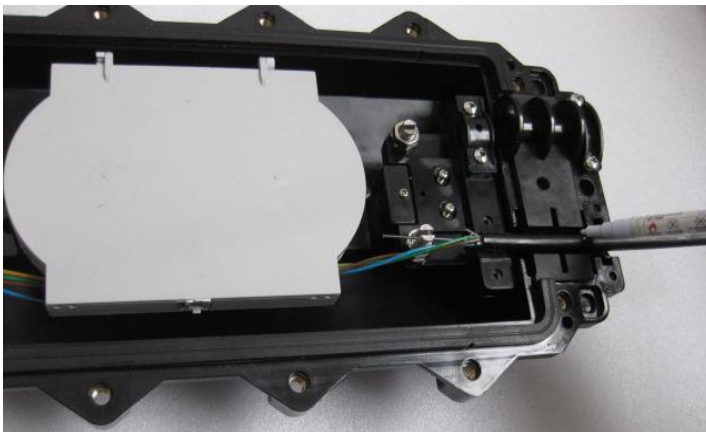
## 7.0 Install the optical cable in the closure

- 7.1 Choose the appropriate optical cable access holes for the installation based on

the actual cable diameter; choose proper sealing ring according to the cable diameter and then put it on the cable in advance.



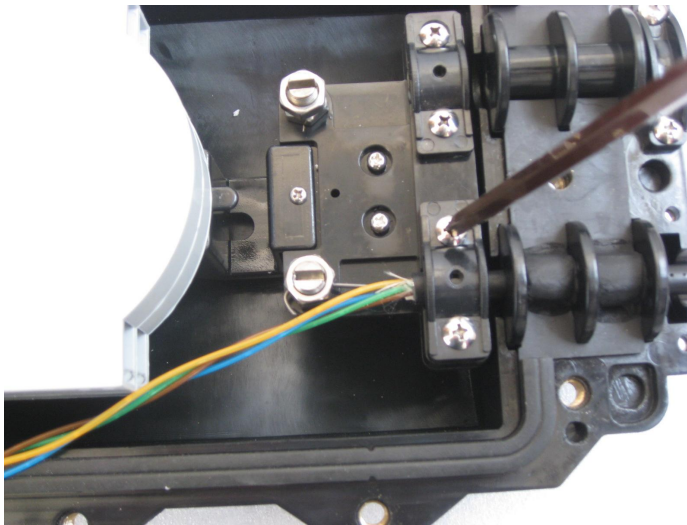
7.2 Coil the sealing tape on the optical cable to increase its diameter by comparing the cable seal groove and the fixed position of the cable; the diameter of the cable wrapped with sealing tape should be slightly larger than that of the seal groove.



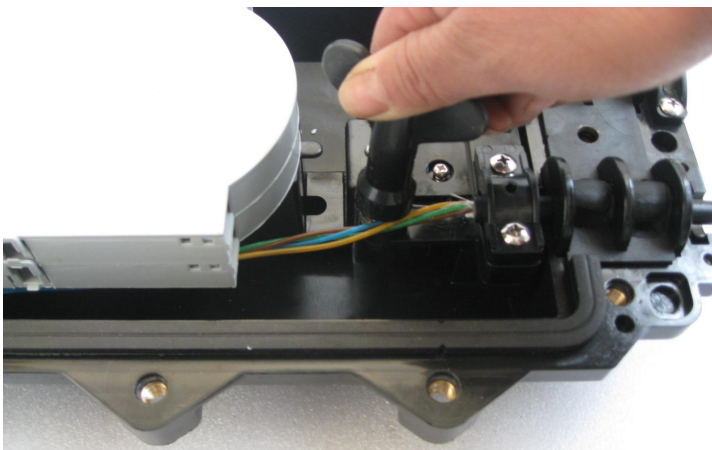


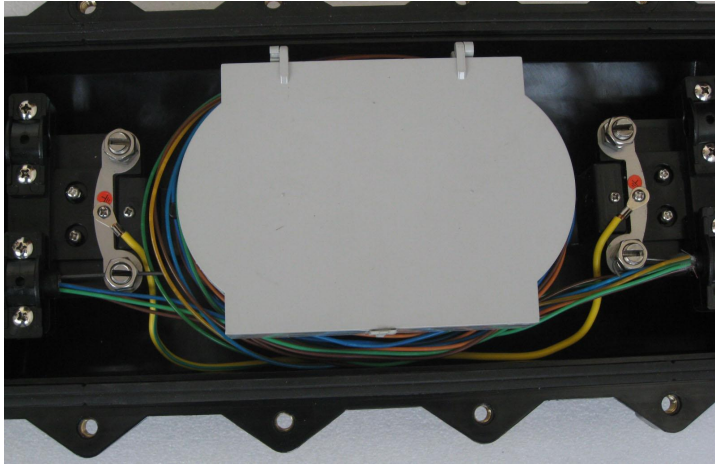


7.3 Fix the optical cable on the bottom of the closure with the cable fixing bracket, following instructions shown in the following figure. You need to make the optical cable about 5mm higher than the fixing bracket, and tighten the fixing bracket with the cross screwdriver.

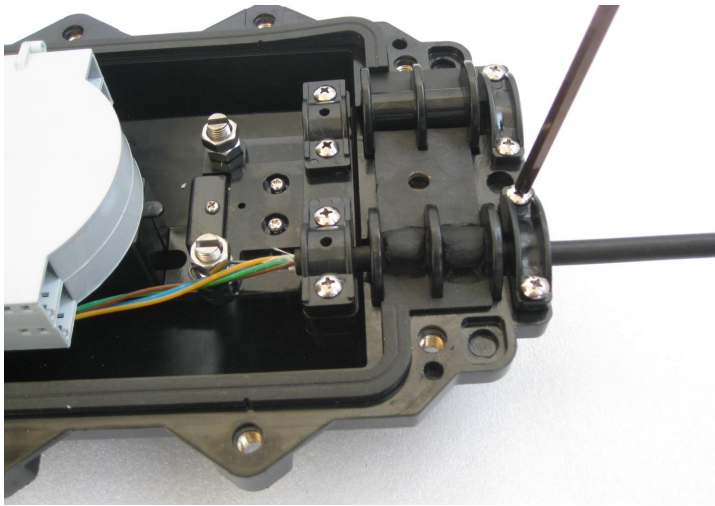


7.4 Fix the intensified cable core on the fixing bracket, and tighten it with the wrench, following instructions shown in the following figure. According to operation rules, metal components in the closure are required to be disconnected for the purpose of protecting devices in the machine room and safety of the people; if metal components in the closure need to be connected with each other, you can install the metal connecting piece first and then connect them with the use of the equipped connecting line, which is shown in the following second figure.

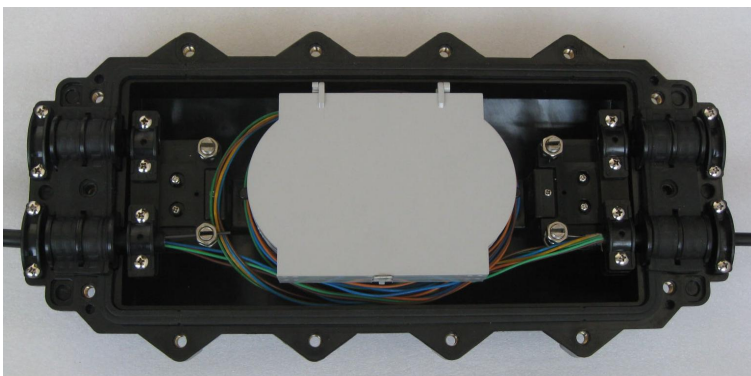




7.5 Fix the optical cable on the closure with the use of the cable fixing bracket on one end of the closure, so as to prevent the optical cable from twisting.



7.6 Repeat the above steps to complete the rest steps of the optical cable stripping, sealing and fixation, and then get to the step shown in the following figure to prepare for the next step of welding.

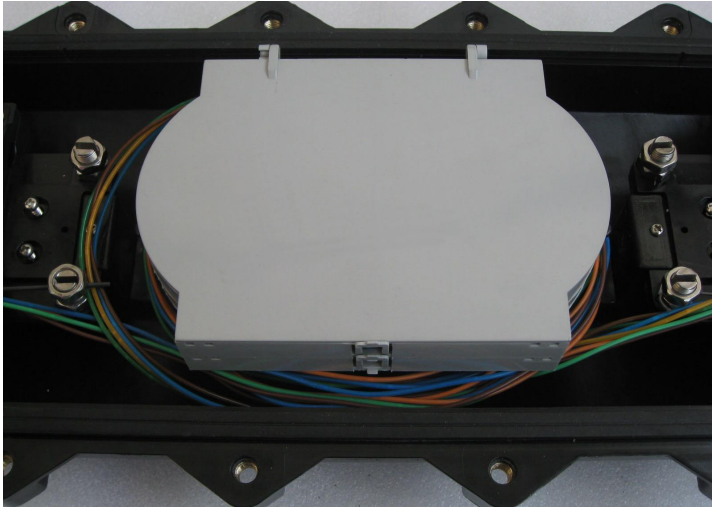


## **8. Weld and fix the cable fiber**

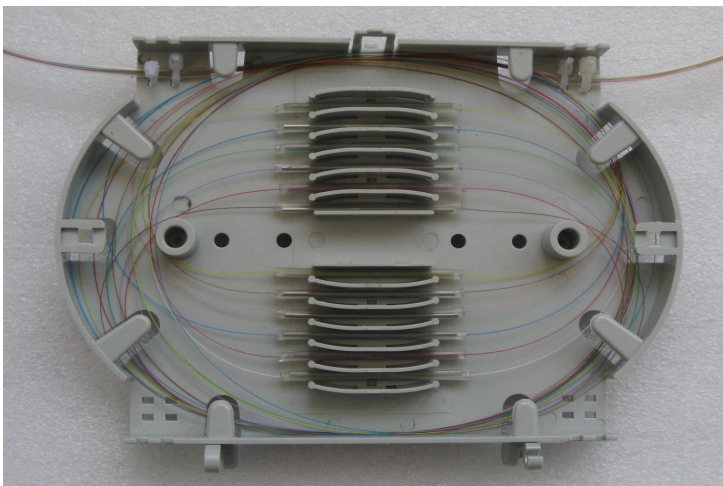
8.1 When the optical cable and optical fiber are well prepared, you need to coil and fix the direct optical cable inside the closure bottom, and then fix them with nylon cable ties. Install the divergent optical fiber on the innermost pad. Coil the stripped



optical fiber in the pad in advance and set aside proper position and margin. And fix the optical cable protective tube with nylon cable ties on the pad entrance. *(The strength of the ties should be appropriate so as to protect the optical fiber from being damaged)*



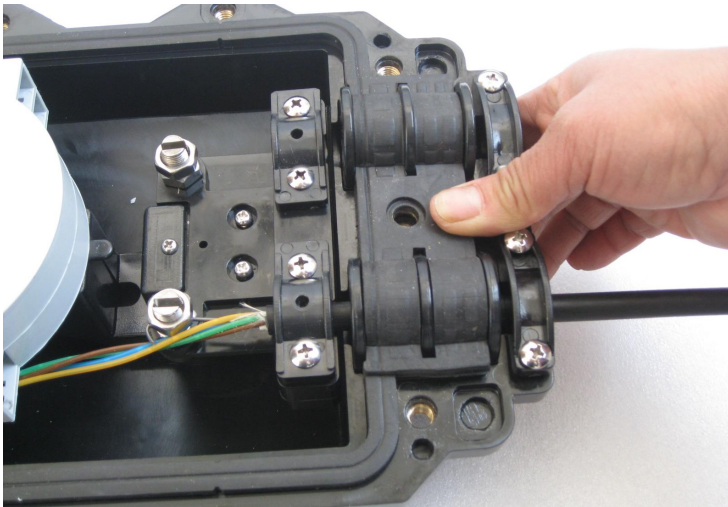
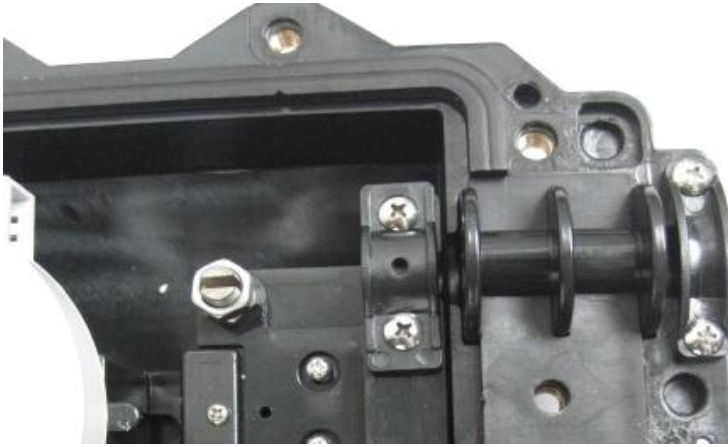
8.2 Next conduct the fiber welding, fixation and coiling inside the pad. When the fiber coiling of a pad is finished, cover it with the transparent plate, and then install the pad sequentially according to the sequence of bottom-up, with the corresponding fiber welding and coiling; and finally you just need to fix all pads with the black tie wrap.



**Note:** Please install the pads strictly in accordance with the sequence of bottom-up.

## 9.0 Seal the fiber optic splice closure

9.1 When the connection is completed, put the sealing ring of the closure on the corresponding groove on the bottom of the closure, and clean the sealing ring and the corresponding surface. Leave the end cap in the unused access holes, and put the sealing ring on them, so as to ensure their tightness.



9.2 Put the cover of the fiber optic splice closure on the bottom of the closure from top to bottom, and then tighten screws with the Allen wrench according to the sequence of the following figure.



9.3 When the fiber optic splice closure is totally sealed and locked, tighten screws sequentially, so as to ensure the tightness of it.

#### 10.0 Reopen the fiber optic splice closure

If the fiber optic splice closure needs to be reopened, unscrew the hex head

screws in the box sequentially. See 6.0 for the specific steps.

**11.0** Description of aerial cable-used installing accessories, conduit-used installing splice closure bracket, and their assembling conditions.



**Aerial cable used-installing accessories and its assembling conditions**



**Conduit-used installing splice closure bracket and its assembling conditions**