GJS-070016

Fiber Optic Splice Closure

Instruction Manual

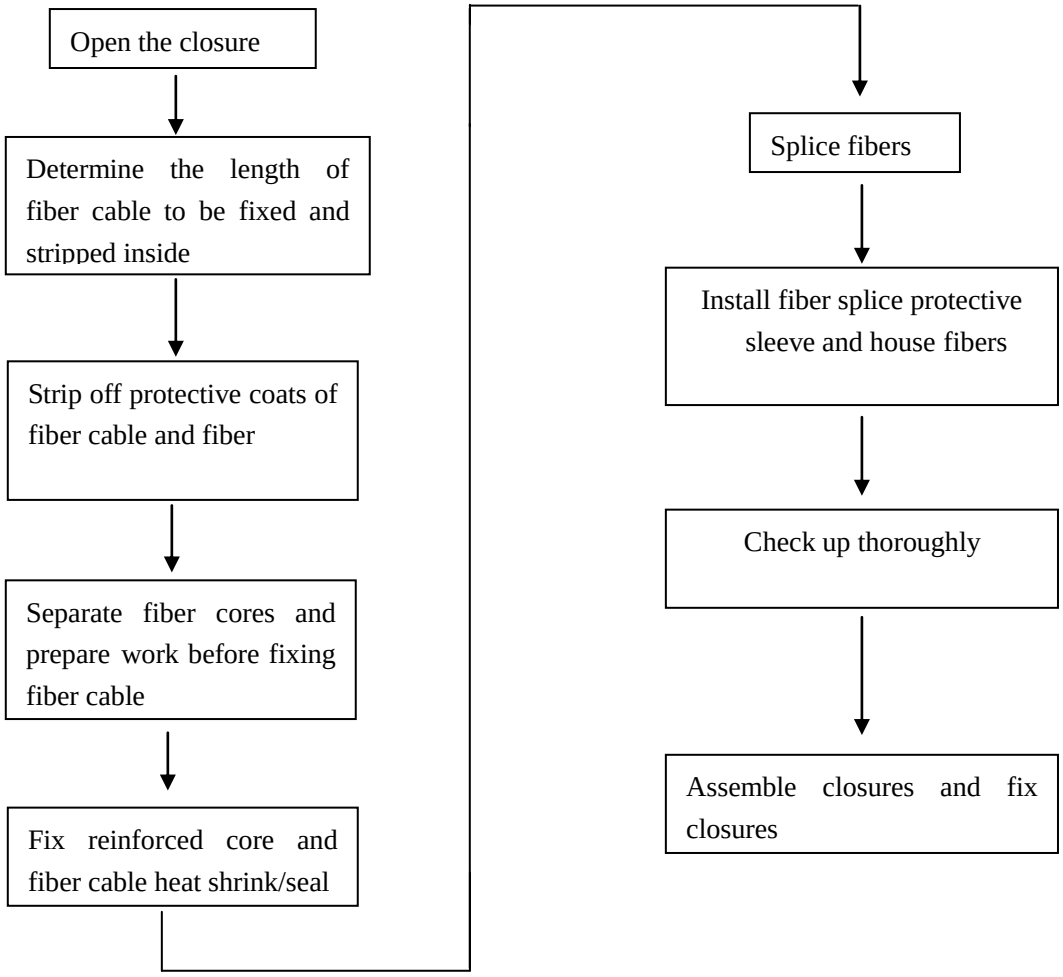
* Applications:

GPJ09L7-BR type of fiber closure is a fiber optic cable splice of multiple purposes, which can connect and protect cables. The fiber closures are capable of protecting fiber cable splices in straight-through and branching applications and shall be used in underground, aerial, wall-mounting, pedestal or direct buried, hand hole-mounting and duct-mounting applications. We always devote to the R&D of telecommunication equipment. Our fiber closures can greatly improve the performance of the operation of your network communication system. Closure is suitable for the applications up to 144 single fibers, which can cover most of the applications in the long-distance transmission and local fiber distribution networks, like Fiber To The Home / Fiber To The Curb (FTTH/FTTC). It is suitable for underground, aerial, pedestal or direct buried applications.

1. Specifications

Size（mm）H×D	465×Φ260	**Capacity(cores)**	144 single fibers
Weight（kg）	5.45	**Airproof type**	Heat Shrink
Entrances	7	**Reinforced core**	Steel wire
Suitable cable diameter	Φ8mm～Φ17.5（Φ24）	**Material**	PP+Glass fiber
Maximum number of trays	12	**Capacity of Tray**	Max 12 single Fusion splices

2. Installation Flow Chart



3. Direction

3.1 Preparation

3.1.1 Please check the cable structure and the fiber type before starting installation. Different types of fibers can't be spliced together.

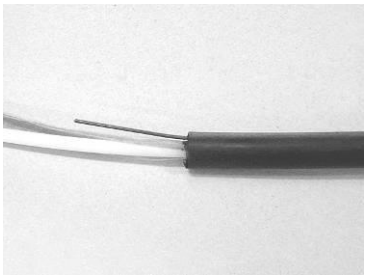
3.1.2 Seal the splicing part perfectly to minimize damages to the cable caused by moisture. Don't apply any impact to the splicing part.

3.1.3 Keep the working place free from moisture and dust. Don't give any impact on the cables. Don't bend or entwine cables.

3.1.4 During the sheath stripping and the closure assembling procedures, use permitted tools according to the approved fiber optic splicing standard in your region.

3.2 Cable installation

3.2.1 Mark the cutting point on the cable, the length of stripping being about 180cm.



3.2.2 Remove the unnecessary cable sheath from the marked point with a sheath stripper

Note1. Be sure not to damage the fiber.

Note2. Do not use any damaged cable.

Note3. While remove the cable sheath, please do not cut, twist or damage fiber coat. Reserve enough length to ensure repair and maintenance in case an accident happened.

3.2.3 cut off the extra reinforced core about 5cm from the removing point on the sheath.

3.3 Installation of Fiber Closure

3.3.1 Check the specified type and all the accessories of the fiber closure

3.3.2 Open the fiber closure

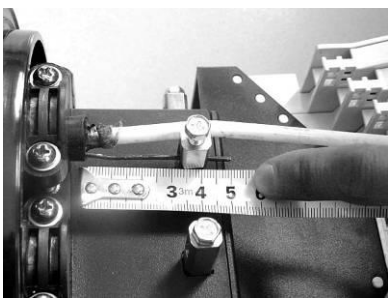
Unlade the locked device on plastic hoop, open plastic hoop in order to separate the cover and bottom.

Note. Because the sealing performance is predominant, please be careful when separating the cover and bottom so as not to damage the case.

3.3.3 Insert cable into fiber closure.

i. Select the appropriate cable inlet ports and cut less than 5mm from the applicable ports with a saw or other suitable tools.

ii. Insert the removed cable into the heat shrink tube first , then into the inlet port



iii. Fix the reinforced core and fiber cable

a. Place the reinforced core plug in the device of fixing reinforced core, then tighten the bolts using a

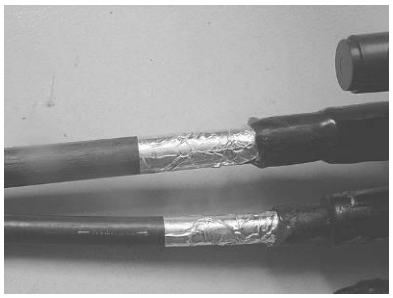
screwdriver or a wrench.

b. Fix the cable on the bracket with compact device

iv. *Note: Be careful not to damage the fiber*

v. Rub and clean the inlet ports and the cable with a piece of sandpaper to allow the sealing adhesives inside the heat shrink tube to be attached to each side around.

vi. Wrap 10cm long cable with silver tape to protect cable inlet sheath (6cm long cable was covered by heat shrink tube).



vii. Heating the shrink tube

viii. Push the heat shrink tube up to the cable inlet port and heat the tube but not let the fire close to the inlet port. (*When using dual type heat shrink tube, inset the metal branching clip as the figure shown before heating.).*

Note: *1)heat it evenly when it is in heat shrink condition*

2) Shrink the heat shrink tube near the joint of inlet and bottom side of the case first, then heat the other parts after it has cooled for some time.

ix. Distribution, protection and fix of the fibers

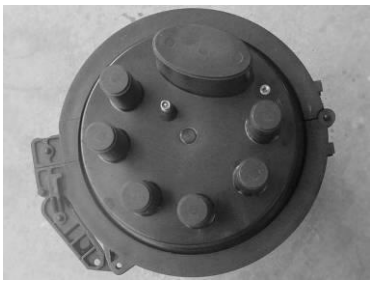
x. Distribute the fiber according to require, and then let the fiber through the PVC transparent hose and fixed at entrance of fiber tray by nylon tie.

xi. Splices fibers and coil surplus fibers

xii. Fusion and splice fibers and coil surplus fibers on bracket using an approved splicing method, then cover the splice tray cover after splice fibers.

xiii.Assembling the closure

xiv. After install of cables, put the sealing loop on the case, then place the dome shaped cover onto the bottom portion. Fasten the dome shaped cover and the bottom portions together with a plastic hoop.



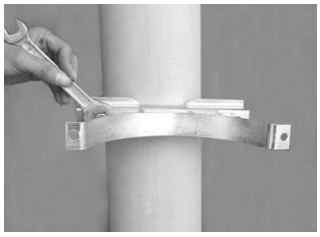
xv. Fiber testing and sealing test

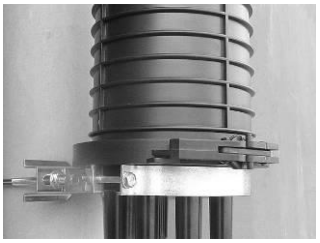
xvi. It's possible to test after the closure are pressurized, and to protect optic cables with earthing device (Pressure testing valve is optional)

xvii. Fix the fiber closure

（1） Fix the hanger on the concrete pole with the M10×560 screw, and then tighten the nut.

（2） Fix the body of the fiber closure and tighten the nut.





4. Notice

Using the six small cable inlet ports, the diameter of the cable should not be more than Φ17.5mm, if the big port; it should be no more than Φ22mm.

5. Main Technical Data

5.1 Environment temperature: -40℃～+55℃.

5.2 Max. capacity: 144 cores(using single core fiber)

5.3 Range of the suitable diameter of the cable: Φ8mm～Φ17.5（Φ2　3mm）.

5.4 Airproof performance: Airing pressure inside box 100Kpa，pointer keeps stable after 24 hours or no air bell within 15min when placed in common temperature water.

5.5 Re-encapsulation performance: no change in the index of air-proof performance after three times of repeat encapsulation

5.6 Insulation resistance: $\geq 2X10^{4}M\Omega$

5.7 Voltage-resistance strength：Under the effect of 15kvDC/1min, non-puncture, no arc-over

6. Service Tip

Thank you for supporting our company's products! If there is any problem, please do not hesitate to contact us. Our contact information is as follows. We will provide you with the best service in time.