

GJS-IV-9001 Fiber Optical Splice Closure Installation Manual



This Installation Manual suits for the Fiber Optic Splice Closure (Hereafter abbreviated as FOSC), as the guidance of proper installation.

The scope of application is: aerial, wall-mounting application. The ambient temperature ranges from -40 $^{\circ}$ C to +65 $^{\circ}$ C.

2. Basic structure and configuration

2.1 Dimension and capacity

Outside dimension (LxWxH)	240x194x89 mm
Weight (excluding outside box)	1000g-1200g
Number of inlet/outlet ports	Max. 3pieces
Diameter of fiber cable	Ф7mm—Ф12mm
Capacity of FOSC	Bunchy: 4-48cores

2.2 Main components

No.	Name of	Quantity	Usage	Remarks
	components			
1	FOSC cover	1 piece	Protecting fiber cable splices in	Internal diameter:
			whole	175x122 x35(mm)
2	FOSC bottom	1 piece	Fixing reinforced core, fiber	Internal diameter:
			cable and FOST	175x122 x30 (mm)
3	Fiber optic	Max. 4 pieces	Fixing heat shrinkable	Suitable for:
	splice tray	(bunchy)	protective sleeve and holding	Bunchy: 4-8,6-12 (cores)
	(FOST)		fibers	
4	Integrated seal	1 set	Sealing between FOSC cover	3pcs small internal diameter
				Ø9.5mm seal rings;1pc
	fitting		and FOSC bottom	housing seal fitting
5	Plastic gasket	1 set	Protect elastic seal fitting from	3pcs internal diameter
			rotten and white ant	Ø12.5mm
6	Earthing	1 set	Deriving metallic components	Configuration as per
	deriving		of fiber cable in FOSC for	requirement.
	device		earthing connection.	

2.3 Main accessories and special tools

	2.0 1/10.11 woodsories with special cools			
No.	Name of accessories	Quantity	Usage	Remarks
1	Heat shrinkable protective sleeve		Protecting fiber splices	Configuration as per capacity
2	Nylon tie		Fixing fiber with protective	Configuration as

			coat	per capacity
3	Hanging hook	1 set	For aerial use	Configuration as
				per requirement
4	Fixing device	1 set		Configuration as
				per requirement
5	Earthing wire	1 piece	Putting through between	To put through
			earthing devices	while required
6	Labeling paper	1 piece	Labeling fiber	
7	Special wrench	1 piece	Fixing octagonal nut (plastic)	
8	Buffer tube	To be decided	Hitched to fibers and fixed Configuration as	
		by customers	with FOST, managing buffer	per requirement
9	Desiccant	1 bag	Put into FOSC before sealing	
			for desiccating air.	

3. Necessary tools for installation

3.1 Supplementary materials (to be provided by operator)

Name of materials Usage	
Scotch tape	Labeling, temporarily fixing
Ethyl alcohol	Cleaning
Gauze	Cleaning

3.2 Special tools (to be provided by operator)

Name of tools	Usage
Fiber cutter	Cutting off fibers
Fiber stripper	Strip off protective coat of fiber cable
Combo tools	Assembling FOSC

3.3 Universal tools (to be provided by operator)

Name of tools	Usage and specification
Band tape	Measuring fiber cable
Pipe cutter	Cutting fiber cable
Electrical cutter	Take off protective coat of fiber cable
Combination pliers	Cutting off reinforced core

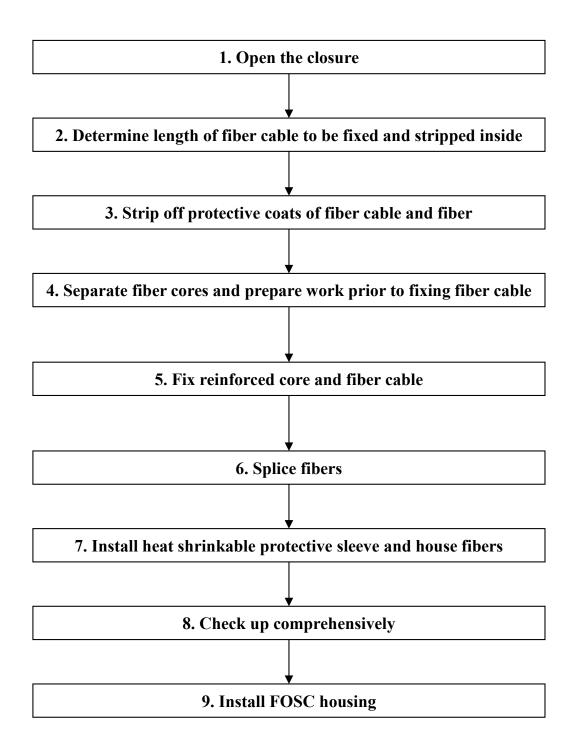
Screwdriver	Crossing/Paralleling screwdriver	
Scissor		
Waterproof cover	Waterproof, dustproof	
Metal wrench	Tightening nut of reinforced core	

3.4 Splicing and testing instruments (to be provided by operator)

Name of instruments	Usage and specification
Fusion Splicing Machine	Fiber splicing
OTDR	Splicing testing
Provisional splicing tools	Provisional testing

Notice: The above-mentioned tools and testing instruments should be provided by the operators themselves.

4. Installation flow chart



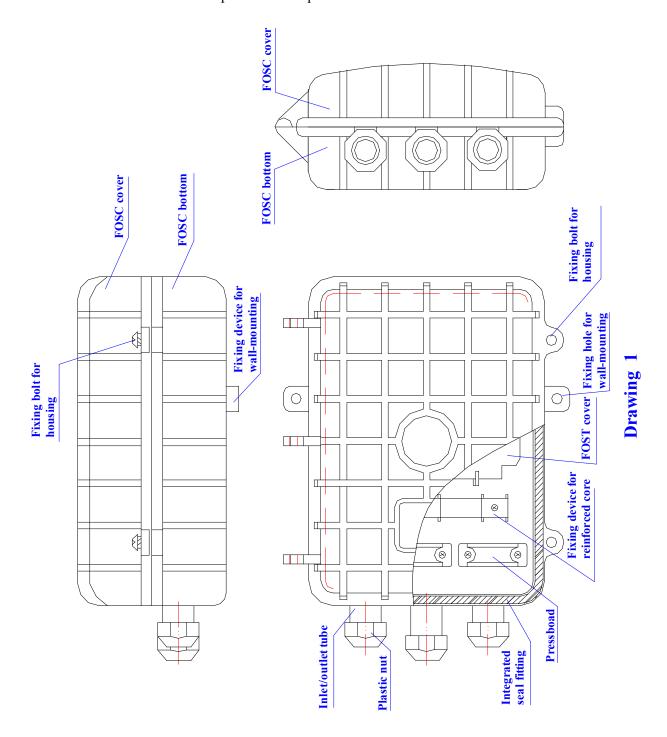
5. The process of installing FOSC

5.1 Step One - Open the closure

- 5.1.1 Cleaning the locale and determine where to install the FOSC and then place fiber cables required.
- 5.1.2 Check whether the main components and accessories have been well prepared inside the package.
- 5.1.3 Open the closure by demounting the fixing bolt (2 pieces) of the housing with special wrench, succeed in opening the closure.

5.1.4 See Drawing 1

Important issues: If the weather condition is not good enough, then a tent must be pitched for waterproof and dustproof.



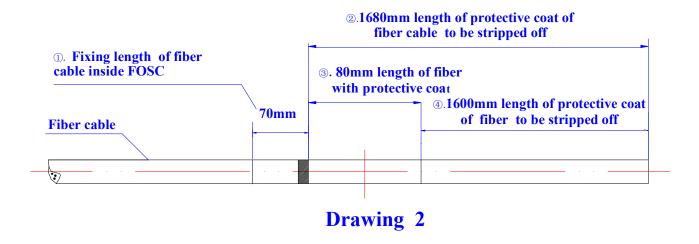
5.2 Step Two -Determine length of fiber cable to be fixed and stripped inside FOSC

- 5.2.1 ①. Fiber cable in 70mm length: the distance from seal fitting to fiber cable pressboard
 - ②. Fiber cable in 1680mm length: it is used to be winded and spliced after stripping.
 - ③. Fiber with protective coat in 80mm length: the distance from the fixing point of fiber

- cable to the fixing point of FOST (fiber optic splice tray).
- ④. Fiber in 1600mm length: after stripping off the protective coat, it is to be winded inside the FOST after splicing with other fibers
- 5.2.2 See Drawing 2

Important issues:

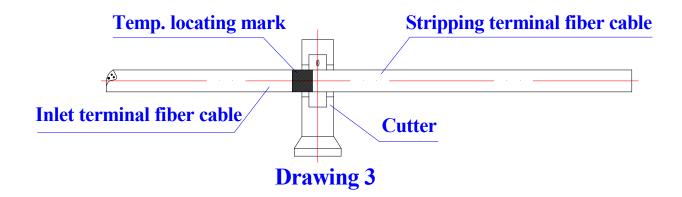
- 1. Reserve enough length of fiber cable to be spliced.
- 2. Stripping length also could be decided by customer according to installation requirement.



5.3 Step three – Strip off fiber protective coat of fiber cable and fiber

- 5.3.1 Strip off protective coat of fiber cable from the temp. Locating mark with the cutter and the stripper, please refer to Drawing 2 for stripping length. Stripping length also could be decided according to installation requirement
- 5.3.2 See Drawing 3.

Important issues: If it is difficult to strip off all the protective coat of fiber cable at one time, strip it off section by section to avoid fiber breakage.

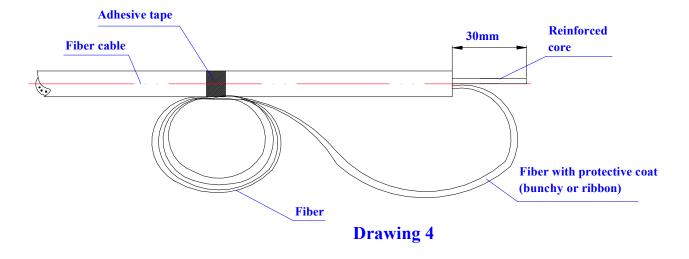


5.4 Step Four – Separate fiber cores and prepares work prior to fixing fiber.

5.4.1 Wind 2 layers of insulation tape on protective coat of fiber core. Meanwhile, get rid of the stuffing to separate fiber and clean them. Form a ring with the diameter of 100mm or so and fix it on the fiber temporarily by adhesive tape.

- 5.4.2 This FOSC is provided with 3 inlet/outlet tubes, each of which suit for 1 piece of fiber cable with max. diameter φ12mm.
- 5.4.3 Reserve reinforced core in 30mm length and cut off the unnecessary ones.
- 5.4.4 See Drawing 4

Important Issues: Cut off reinforced core with special cutting pliers.

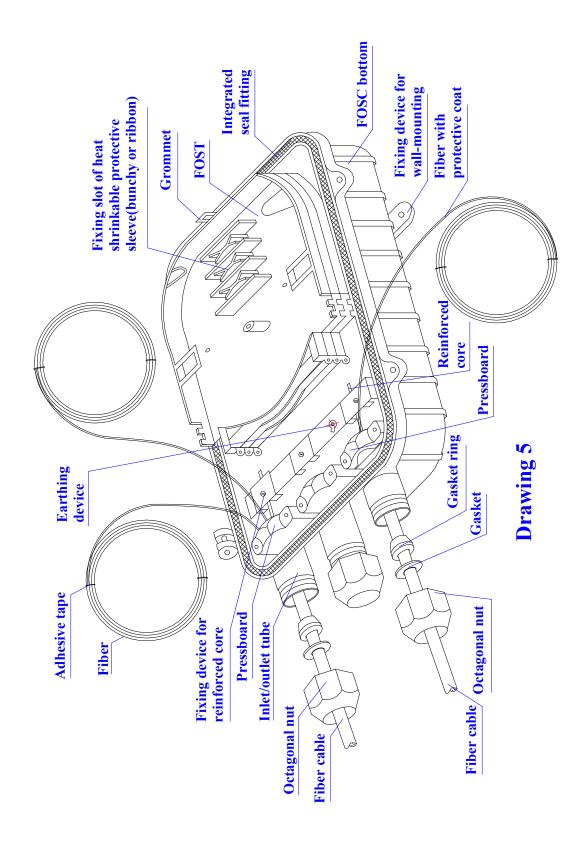


5.5 Step Five - Fix reinforced core and fiber cable

- 5.5.1 After deciding number of fiber cable inlet/outlet, demount the nut and gasket of the corresponding inlet/outlet tube. Insert them into fiber cables in sequence, which are to be inserted into inlet/outlet tube; then tighten the octagonal plastic nut.
- 5.5.2 Fix fiber cable to fixing device of fiber cable (while diameter of fiber cable is small, enlarge the diameter with insulation tape), then fix the reinforced core to the fixing device of the reinforced core.

5.5.3 See Drawing 5

Important issues: before the seal tape is used for enlarging the diameter of fiber cable, it should be scratched and to be cleaned with abrasive cloth and ethyl alcohol.



5.6 Step six - Splice fibers

5.6.1 Follow user manual of fusion splicing machine to splice fiber. **Important issue**: pay attention to the twist and bend of fiber.

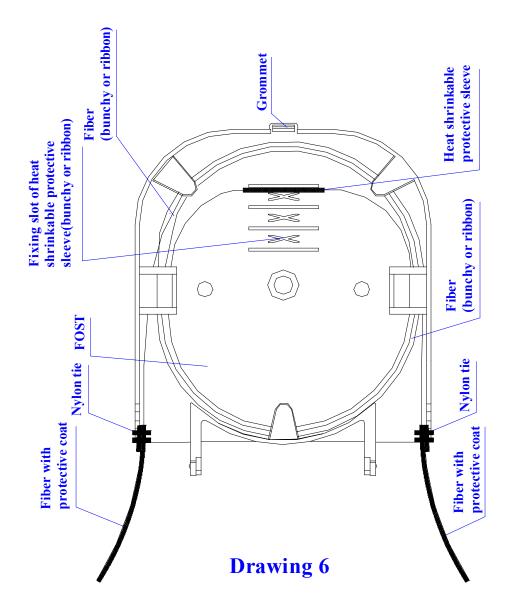
5.7 Step Seven -Install heat shrinkable protective sleeve and house fibers

5.7.1 When having completed splicing the fibers, the first fiber ring should be housed on the farthest side of FOST, the remaining fiber should be winded, forming a ring with diameter not less than 80mm. then put it into FOST (Fiber Optic Splice Tray) together with heat shrinkable protective sleeve.

(Firstly fix heat shrinkable protective sleeve into the slot, then enlarge the diameter of fiber ring properly.)

5.7.2 See Drawing 6

Important issue: pay attention to the twist and bend of fiber.



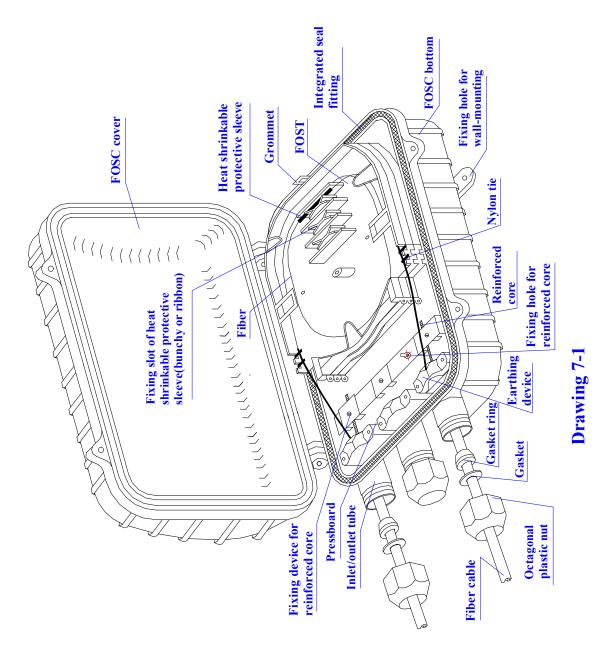
5.8 Step Eight - Check up comprehensively

To ensure the technical requirements, the following instructions must be followed:

- 5.8.1 Fibers with protective coat are fixed with nylon tie at the entrance of FOST.
- 5.8.2 Grommet should be pressed from inside to outside in order to properly install FOST.
- 5.8.3 Check whether the internal tighteners and bolt of reinforced core is well tightened

- 5.8.4 Check whether integrated seal fitting is installed neatly and smoothly without any breakage. If not, level it up with seal tape.
- 5.8.5 See Drawing 7-1.

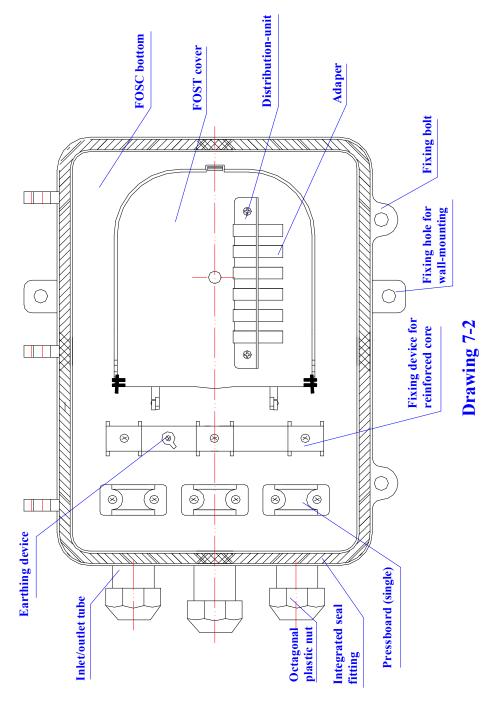
Important issues: If any problems occur, they should be solved right away.



5.9 Step nine – Install FOSC housing

- 5.9.1 The closure is used for splicing part of main fiber cable with branching fiber cable, and meanwhile splicing its rest part with pigtail or drop cable, connecting optical exchange equipment via patch cord. Therefore it saves costs by eliminating splicing unit, distribution unit, distribution box and all the work between fiber optic splice closure and distribution box.
- 5.9.2 It is easy and fast to increase FOST. The SLIDE-IN-LOCK design of FOST with the opening angle 90° makes expansion and maintenance convenient.

- 5.9.3 The distribution unit can have FC, SC, ST, LC adapter front panel to meet with customers various needs. The installation is very easy.
- 5.9.4 Innovative design, easy installation. Based on the advanced formula, the plastic part is made of injection-molded, high-strength engineering plastic PC. It ensures long-term reliability and usage under ambient temperature -40°C +65°C.
- 5.9.5 The elastic integrated seal fitting, our patented product, can be reused for many times.
- 5.9.6 Multi-functional fiber optic splice closure can be used for wall-mounting and pole-mounting application. It saves the cost for FTTH application and improves quality of telecommunication.
- 5.9.7 See Drawing 7-2

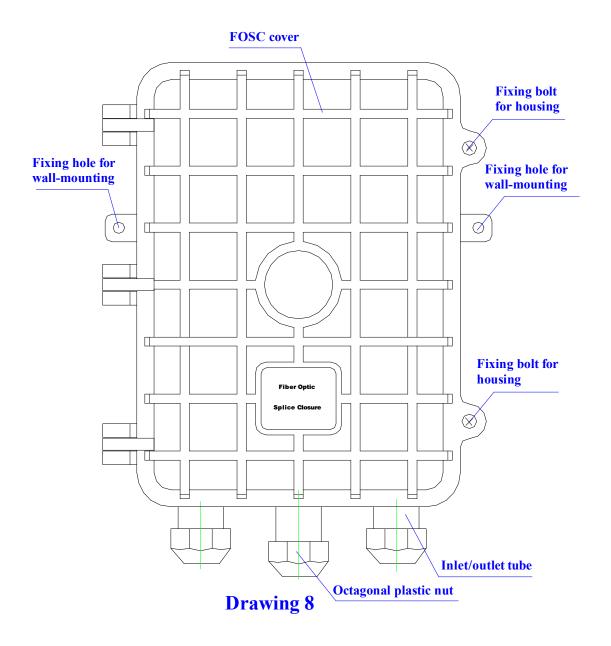


5.10 Step Nine – Assemble FOSC housing and fix FOSC

- 5.10.1 Tighten the fixing bolts of housing
- 5.10.2 Tighten the octagonal nut.
- 5.10.3 FOSC installation
 - ① Aerial application: fix metal hoop and transom to the pole. Please refer to Drawing 8
 - ② Wall mounting application: fix the bracket on the wall with bolt. (metal hoop is not required.)
- 5.10.4 See drawing 8

Important issues: 1. Clean the housing

2. Tighten bolts in sequence.



6. Fiber Optic Splice Closures (FOSC) inspecting and testing items

		Inspecting type	
Inspecting	Technical Requirements	Routine test	
item	reclinical requirements	(Before leaving	Type test
		factory)	
	Each small package contains one fiber optic splice		
Package	closure, together with its accessories, tools, installation		
	manual and packing list.		
	Intact in shape, no burrs, bubbles, chaps, pores, warps,	full	
Appearance	impurities and other defects, all background colors should		
	be even and continual.		
Sign	There is a clear sign on the housing, such as name and		
	model of the product, etc.		
	The fibers reserved are to be winded in fiber optic splice		
Fiber storage	tray (FOST), the length of fibers housed in FOST		
device	is >1.6m, the curved radius is >30mm. During the		
	installation and maintenance, there should be no		
	attenuation on fibers.		
Electrical	Inside FOSC: metallic components of fiber cables have		
jointing	the functions of electrical putting through, earthing		At least 3
device	connection and disconnecting. It is possible to install		sets
	earthing deriving device outside the housing		sampled
	After sealing according to the stipulated operation		each time
Sealing	procedures, the injected air pressure is $100 \mathrm{KPa} \pm 5 \mathrm{Kpa}$,	At least 3 sets	
performance	when immersed in clean water of normal temperature for	sampled each	
P	15 minutes, there should be no air bubbles, then observed	time	
	for 24 hours, there should be no change of air pressure.		
	After reopening and resealing according to the stipulated		
	operation procedures, the injected air pressure is 100KPa		
Re-sealing	\pm 5Kpa, when immersed in clean water of normal		
performance	temperature for 15 minutes, there should be no air		
	bubbles, then observed for 24 hours, there should be no		
	change of air pressure.		
Pull	Bearing pull is ≥ 800 N at axle orientation, there should		
	be no breakage on the housing.		
Punching	Bearing pressure of 2000N/10cm for 1 minutes, there		
1 4114111115	should be no breakage on the housing		

Bearing impact energy of 16N m, 3 times of impacts there should be not breakage on the housing				
The spot between the FOSC and seal fitting can bear bending tension of 150N at bending angle of ±45° for 10 circles, there should be no breakage on the housing Bearing torsion 50N•m, 10 circle at torsion angle±90°. There should be no breakage on the housing. Injected air pressure of 60KPa±5 KPa, the temperature circle ranging from -40°C ~+65°C, 10 times of the circular tests (one circular consists of high temperature for 2 hours + indoor temperature for 2 hours) when the pressure declines, the amplitude is ≤5Kpa, immerse the swatch in clean water of normal temperature for 15 minutes, there should be no air bubbles. Voltage resistance strength Voltage resistance After sealing the FOSC according to the stipulated operation procedures, immerse it in clean water of normal temperature in 1.5m depth for 24 hours, there should be no breakdown or are over between the metallic components of the FOSC, between metallic components and the ground at DC 15KV for 1 minutes. After sealing the FOSC according to stipulated operation procedure, immerse it in clean water in 1.5m depth for 24h, the isolating resistance between the metallic components of the FOSC, between the metallic components of the FOSC according to stipulated operation procedure, immerse it in clean water in 1.5m depth for 24h, the isolating resistance between the metallic components of the FOSC according to stipulated operation proce	Impact	Bearing impact energy of 16N•m, 3 times of impacts there		
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