

Fiber Optic Splice Closure

GPJ83-D18

Features

- LongXing GPJ83-D18 fiber optic splice closures are specially designed to protect joints of optic cable.
- The scope of application is: aerial, wall-mounting, and pole-mounting. The ambient temperature ranges from -40°C to $+65^{\circ}\text{C}$.
- The closure adopts mechanical and heat shrinkable sealing structure. There is one oval shaped cable port entrances in base. The oval entrance is used for the sealing of uncut straight-through fiber cable, the small ports are used for branch fiber cable and drop cable.
- To adopt engineering PP plastic with high-strength to make the closure has longer life time and excellent sealing performance.
- It can be installed more splitter trays and 1:8 blockless or bare PLC splitters.
- There are different drop cable elements to be chosen:
D18-A: ($\Phi 5-\Phi 9$). Max. 24 pcs drop cable input/output (special type can be customized).
D18-B: ($\Phi 5-\Phi 9$). Max. 24 pcs drop cable input/output (special type can be customized).
D18-C: ($\Phi 5-\Phi 9$). Max. 32 pcs drop cable input/output (special type can be customized).
D18-D: ($\Phi 5-\Phi 9$). Max. 32 pcs drop cable input/output (special type can be customized).
- The excellent sealing structure keep good sealing performance after re-entry and re-using.
- It could save installation time and improve efficiency.

Applications

- Suitable for bunchy fibers
- Aerial, underground, wall-mounting, hand hole-mounting and duct-mounting
- It's especially applicable to FTTH optical fiber distribution



Basic Structure and Configuration

Dimension and Capacity

Closure type	D18-A (Small Closure)	D18-B (Medium Closure)	D18-C (Large Closure)	D18-D (Extra Large Closure)
Outside dimension (H x W x L)	345×192×323mm	445×192×323mm	490×313× φ 281mm	590×313× φ 281mm
Weight (excluding outside box)	About 4.50 kg	About 5.5 kg	About 6.80 kg	About 7.15 kg
Number of inlet/out ports	7 pcs	7 pcs	9 pcs	9 pcs
Diameter of express cable	Φ8~Φ18mm	Φ5~Φ9mm	Φ5~Φ9mm	Φ5~Φ9mm
Diameter of branch/drop cable	Φ8~Φ22mm	Φ8~Φ22mm	Φ8~Φ22mm	Φ8~Φ22mm
Capacity of FOSC	6 - 192 cores	6 - 384 cores	6-576cores	6 -960cores

FOST Dimension and Capacity

Capacity of fiber optic splice tray		Splice Tray		Splitting Tray	
(FOST) Type		Type 1	Type 2	Type 3	Type 4
Size		134*115*4mm	134*115*8mm	134*115*8mm	134*115*4mm
Capacity of FOST		12F splicing	24F splicing	1*splitters 1:4 / 1*splitter 1:8	1*splitter 1:4
Heat-shrink tube storage		Max. 1 layer	Max. 2 layers	Max. 2 layers	Max. 1 layer
Number of FOST (max.)	D18-A	16 pcs	8 pcs	8 pcs	16 pcs
	D18-B	32 pcs	16 pcs	16 pcs	32 pcs
	D18-C	24 pcs (one side)	12 pcs (one side)	12 pcs (one side)	24 pcs (one side)
		48 pcs (double sides)	24 pcs (double sides)	24 pcs (double sides)	48 pcs (double sides)
	D18-D	40 pcs (one side)	20 pcs (one side)	20 pcs (one side)	40 pcs (one side)
80 pcs (double sides)		40 pcs (double sides)	40 pcs (double sides)	80 pcs (double sides)	

Main Components

No.	Name of components	Quantity	Usage	Remarks
1	FOSC cover	1 piece	Protecting fiber cable splices in whole	
2	Splice tray	Customisable	Fixing heat shrinkable protective sleeve and holding fibers	Configuration as per requirement
3	Splitting tray	Customisable	Fixing splitter, fixing heat shrinkable protective sleeve and holding fibers	Configuration as per requirement
4	Fiber holding tray	1 pc	Holding fibers with protective coat	
5	Base	1set	Fixing internal and external structure	
6	Plastic hoop	1 set	Fixing between FOSC cover and base	

7	Sealing ring	1 set	Big gasket ring is used to seal FOSC cover and base. Small gasket ring is used to seal entry/exit tube	
8	Hose clamp	10 pcs	Use for fixing the fiber cable	Configuration as per requirement
9	Plastic gasket	8 sets	Protect elastic seal rings from corruption	
10	Pressure testing valve	1 set	After inject air, it is used for pressure testing and sealing testing	Configuration as per requirement
11	Earthing deriving device	1 set	Deriving metal parts of fiber cables in FOSC for earthing connection	Configuration as per requirement

Main accessories and Special Tools				
No.	Name of accessories	Quantity	Usage	Remarks
1	Heat shrinkable protective sleeve	1 bag	Protecting fiber splices	Configuration as per capacity
2	Nylon tie	1 set	Fixing fiber with protective coat	Configuration as per capacity
3	Earthing wire	1 pc	Putting through between earthing devices	
4	Special wrench	2 pcs	Installing and tightening nut of reinforced core and nut (plastic) of entry/exit tube	
5	Desiccant	2 bags	Put into FOSC before sealing for desiccating air	
6	Metal wall mounting	1 set	For wall mounting	Optional
7	Metal pole mounting	1 set	For pole mounting	Optional
8	Metal aerial mounting	1 set	For aerial mounting	Only for GPJ83-D18-A
9	Buffer tube	1 roll	Hitched to fibers and fixed with FOST,managing buffer.	Configuration as per requirement
10	Sealing tape	1 roll	For the port of straight through	
11	Insulating tape	1 roll	Enlarging diameter of fiber cable for easy fixing	

Necessary Tools for Installation

Supplementary Materials (to be provided by operator)

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

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

Splicing and Testing Instruments (to be provided by operator)

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

Special Tools (to be provided by operator)

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

Part Details

GPJ83-D18-A



GPJ83-D18-B



GPJ83-D18-C



GPJ83-D18-D



Splice trays and other accessories



Type 1



Type 2



Type 3



Type 4

