DATASHEET

# Fiber Optic Splice Closure-Horizontal type

Offer optical transmission link, to provide through, branching connection and related connecting protection.

## What is Fiber Closure?

Fiber closure, also known as fiber optic splicing closures, is a device used to provide space and protection for fiber optic cables spliced together. The fiber optic closure connects and stores optical fibers safely either in the outside plant or indoor buildings. It can provide protection for the fiber joint and the fiber cables since they have excellent mechanical strength and strong out shell, which ensures the joints are not damaged by the hostile environment.

## Types of Fiber Optic Closure

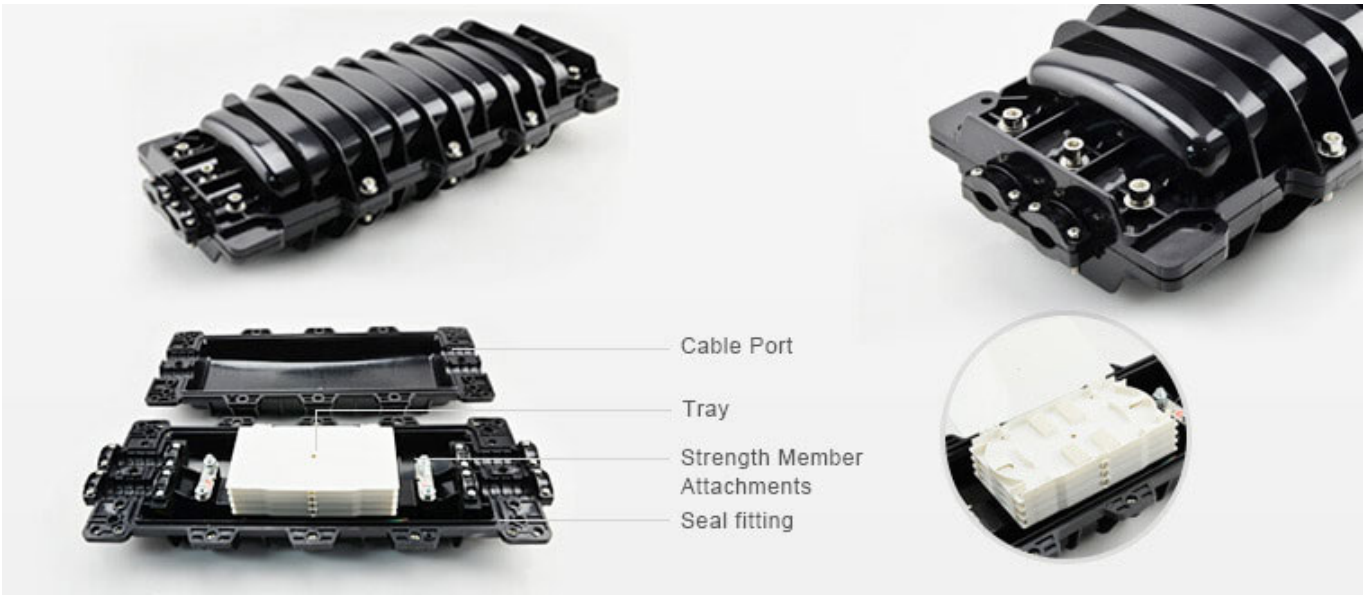
No matter the size, types, and configuration of your network, protecting the connectivity is what counts. According to different applications, there are various types of fiber optic closures in the market for users to choose from and help them protect their networks.

## Horizontal Type Fiber Optic Closure

Horizontal type fiber closure has a flat or cylindrical outer housing to provide space and protection for fiber optic splices. It usually contains one or more fiber splice trays assembled to hold/protect optical fiber splices. The common fiber counts of per splice tray are 6, 12 and 24 fibers.  So one fiber closure's splice capacity could cover a range of 6-288Fibers Totally.

They are commonly made of high tensile construction plastic, so they have good adaptability and compression resistance.  At the same time, they have good waterproof and dustproof function. If attached to a pole or hung from wiring, these fiber splice closures need to be held firmly in place, to avoid damage from weather and wind. So This type of fiber splice closure is the most commonly used one in mounted aerials or buried underground.

The following picture shows a 96-fiber horizontal fiber optic splice closure. It has two input ports and two output ports providing space for 96 fiber splices. There are four standard 24-fiber splice trays stacked together inside the fiber optic splice closure.




## Vertical Type Fiber Optic Closure

Vertical fiber optic closure looks like a dome, thus it is also called dome fiber optic splice closure or fiber dome closure. It usually contains one or more fiber splice trays assembled to hold/protect optical fiber splices. The common fiber counts of per splice tray are 6, 12,16 and 24 fibers.  So one fiber closure's splice capacity could cover a range of 6-672 Fibers Totally.

They are commonly made of high tensile construction plastic, so they have good adaptability and compression resistance.  At the same time, they have good waterproof and dustproof function. If attached to a pole or hung from wiring, these fiber splice closures need to be held firmly in place, to avoid damage from weather and wind. The dome shape makes it easy to be buried in many applications, though it also can be used above-ground as well.



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The following shows a vertical type splice closure which has five entries providing up to 24 fiber optic splices in two 12-fiber splice trays. Different from the above one, the internal fiber splice tray here is suitable for the vertical design of the fiber splice closure.

## Things you should know before ordering.

**1,Horizontal Type or Vertical Type**

Check above

**2, Inlet /Outlet Cable ports**

The number of ports in a fiber optic closure reflects its capacity to handle the number of cables. The cable entrance capacity of a fiber optic splice closure refers to the number of ports available for terminating cable within the closure. The number of ports provided in a closure depends on factors such as the network capacity and the number of cables employed in the network. Usually, in an attempt to reduce the physical size of high-capacity closures, smaller ports shall be utilized for branch cables and drop cables.

**3, Splice Capacities**

As per fiber optic cables types deployed in the networks ,we could calculate how many fibers will be spliced in the closures, then choose how many splice trays, protections sleeves need to pre-assembled.

**4, Sealing Method.**

According to different installation environment, we should choose the best Sealing method.
Aerial or Pole mount: Mechanical Sealing
Buried： Heat shrink Sealing
Shaft, Man hole, Duct: Heat shrink Sealing +Mechanical Sealing

**5. Bonding & Grounding**

Proper bonding and grounding of conductive elements of the optical network shall be provided for the safe deployment and operation of the network.

**6. Hardware and Accessors**

Aerial fiber optic closures may need to hang on the messenger wire depending on the network configuration. Or they may be attached to the pole. In both cases, extra hardware is required along with the closures. The hardware or accessories to attach and secure should be able to bear wear and tear and also environmental stresses.



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## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 7mm-16.5mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Col-or |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 390*210*120 | Splice Cores 96 Cores | Trays 12F/24F | 6 portsx16.5mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.1kg | Black |

## Fiber Optic Splice Closure DOME:

Hinge design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 320*210*85 | Splice Cores 96 Cores | Trays 12F/24F | 6 portsx20mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.8kg | Black |



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## Fiber Optic Splice Closure DOME:

Hinge design with mechanical sealing structure .
High quality industrial plastic body material
2 round holes for cable entrance,,1 in 1 out.
Suitable for cable diameter 8mm-14mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 280*200*90 | Splice Cores 96 Cores | Trays 6F/12F | 2 portsx16.5mm 1 in 1 out | Mechanical sealing with thermoplastic rubber | 1.5kg | Black |

## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 450*220*110 | Splice Cores 96 Cores | Trays 12F/24F | 6 ports x20mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 3.2kg | Black |



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## Fiber Optic Splice Closure DOME:

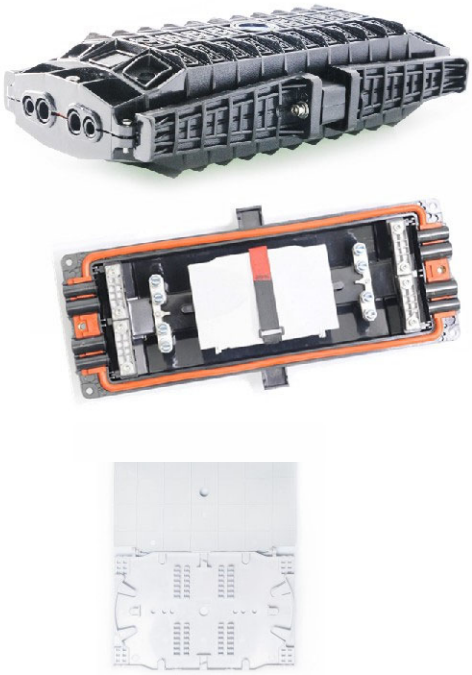
Strengthen solid Half design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 7mm-23mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 288 fibers.
Number of splice trays: 12pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 450*220*160 | Splice Cores 288Cores | Trays 12F/24F | 6 portsx16.5mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 3.8Kg | Black |

## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
8 round holes for cable entrance,,4 in 4 out.
Suitable for cable diameter 7mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F



### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 450*220*110 | Splice Cores 96 Cores | Trays 12F/24F | 8 portsx20mm 4 in 4 out | Mechanical sealing with thermoplastic rubber | 3.3kg | Black |



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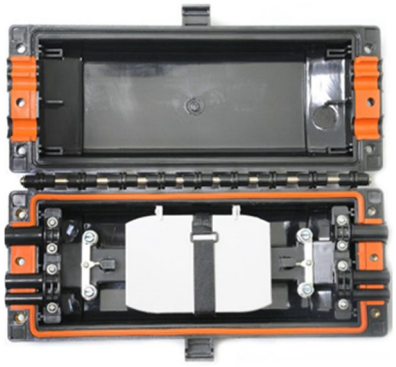
## Fiber Optic Splice Closure DOME:



Hinge design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 7mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 395*195*130 | Splice Cores 96 Cores | Trays 12F/24F | 6 portsx16.5mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.7kg | Black |

## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 144 fibers.
Number of splice trays: 6 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 470*180*125 | Splice Cores 144 Cores | Trays 12F/24F | 6 portsx20mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.9kg | Black |



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## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
6 round holes for cable entrance,,3 in 3 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 396*200*125 | Splice Cores 96 Cores | Trays 12F/24F | 6 portsx20mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.8kg | Black |

## Fiber Optic Splice Closure DOME:

Design with mechanical sealing structure . High quality industrial plastic body material. 4 round holes for cable entrance,,2 in 2 out. Suitable for cable diameter 8mm-16.5mm
Support aerial,underground, pipeline, man holes,hand holes Protection level reaches IP68. Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 12F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 340*150*70 | Splice Cores 48 Cores | Trays 12F/24F | 6 portsx16.5mm 3 in 3 out | Mechanical sealing with thermoplastic rubber | 2.0kg | Black |



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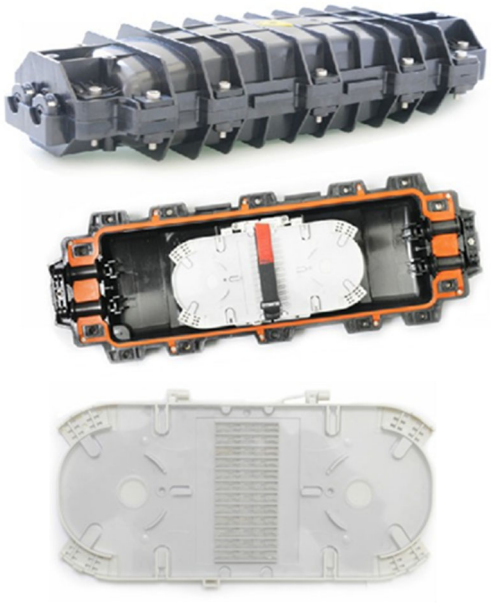
## Fiber Optic Splice Closure DOME:



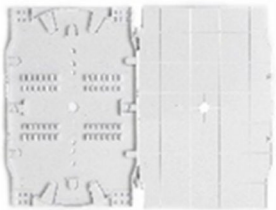
Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 144 fibers.
Number of splice trays: 3 pcs x 48F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 605*215*120 | Splice Cores 144 Cores | Trays 24F/48F | 4 portsx20mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 4.6kg | Black |

## Fiber Optic Splice Closure DOME:

Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F



### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 460*182*120 | Splice Cores 96 Cores | Trays 12F/24F | 4 portsx20mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 2.5kg | Black |



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## Fiber Optic Splice Closure DOME:

Strengthen Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 288 fibers.
Number of splice trays: 6 pcs x 48F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 605*215*175 | Splice Cores 288 Cores | Trays 24F/48F | 4 portsx20mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 6.5kg | Black |

## Fiber Optic Splice Closure DOME:

Strengthen Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-16.5mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F

### Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 413*160*88 | Splice Cores 96 Cores | Trays 12F/24F | 4 portsx16.5mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 2.1kg | Black |



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## Fiber Optic Splice Closure DOME:

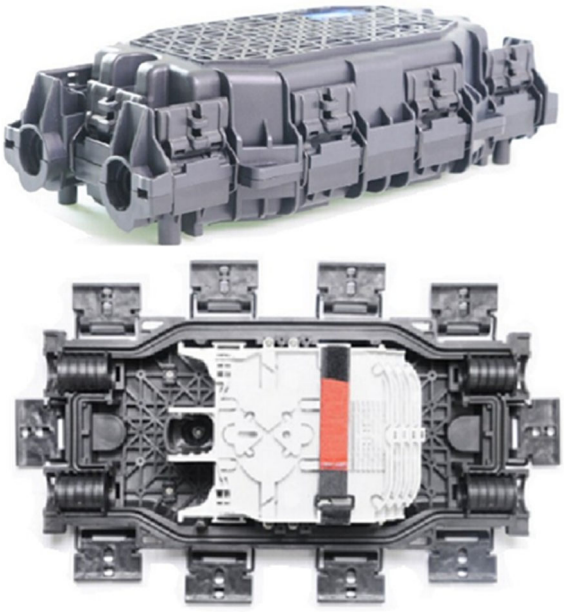
Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-23mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 144 fibers.
Number of splice trays: 6 pcs x 24F

## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Polycarbonate (Strengthen PC) | L*W*H(mm) 465*195*125 | Splice Cores 144 Cores | Trays 12F/24F | 4 portsx23mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 3.4kg | Black |

## Fiber Optic Splice Closure DOME:

Boltless Half design with mechanical sealing structure .
High quality industrial plastic body material
4 round holes for cable entrance,,2 in 2 out.
Suitable for cable diameter 8mm-20mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
Replaceable high quality rubber seal for repeatedly opening.
Maximum capacity: 96 fibers.
Number of splice trays: 4 pcs x 24F



## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Weight | Color |
|---|---|---|---|---|---|---|---|
| Strengthen Polymer Plastic | L*W*H(mm) 370*178*106 | Splice Cores 96 Cores | Trays 24F | 4 portsx20mm 2 in 2 out | Mechanical sealing with thermoplastic rubber | 2.3kg | Black |



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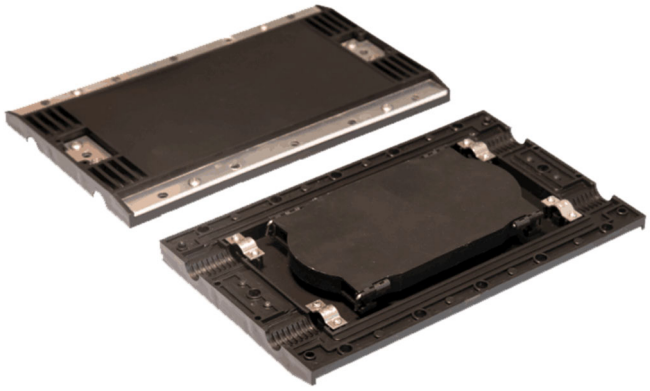
## Fiber Optic Splice Closure DOME :

Mechanical sealing structure.
High quality industrial plastic body material
4 round holes for cable entrance
Suitable for cable diameter 5mm-15mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
360 degrees access, fiber bending > 40mm
Maximum capacity: 12 fibers.
Number of splice trays: 1 pc x 12F

## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Color |
|---|---|---|---|---|---|---|
| PC+ABS | H*D (mm)<br>200*220*43 | Splice Cores<br>12 Cores | Trays<br>1x12F | 2 in 2 out | Mechanical Seal | Black |

## Fiber Optic Splice Closure DOME :



Mechanical sealing structure
High quality industrial plastic body material
4 round holes for cable entrance
Suitable for cable diameter 5mm-15mm
Support aerial,underground,pipeline,man holes,hand holes
Protection level reaches IP68
360 degrees access, fiber bending > 40mm
Maximum capacity: 12fibers.
Number of splice trays: 1 pc x 12F

## Configuration

| Material | Size | Max Capacity | | Cable Entrance | Sealing Mechanism | Color |
|---|---|---|---|---|---|---|
| PC+ABS | H*D (mm)<br>248*150*30 | Splice Cores<br>12 Cores | Trays<br>1x12F | 2 in 2 out | Mechanical Seal | Black |



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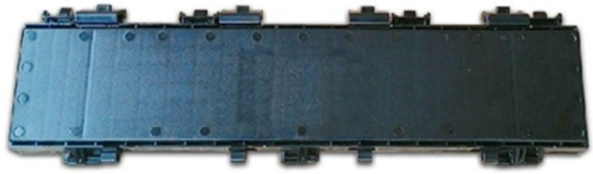
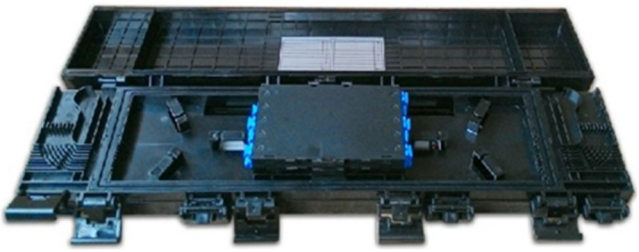
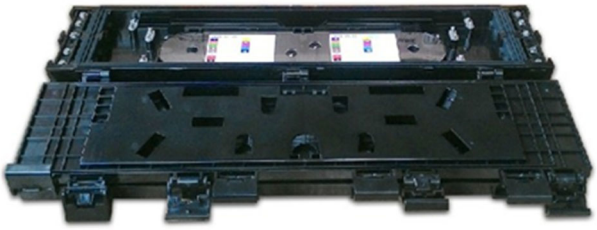
## Fiber Optic Splice Closure DOME :







The closure casing is made of industrial plastic PC+ABS

Integrated with splitter cassette and adaptor for patching

Vulcanized Silicone Rubber Seal, Protection grade:IP66.

Easy to maintain and extend the capacity.

Two tier construction, bottom for splicing,top for splitting

Strengthen buckle design for the easy access of aerial closure.

2 pcs of 1*8 Splitter can be installed as an option

Special bolt and key to prevent unauthorized access to closure

2 ports left and 2 ports right for aerial messenger cable fixation and drop cable entrance （maximum support 16 pcs of drop cable）

## Configuration

| Material | Size | Splice | Pigtail | Fiber Adapter | PLC Splitter Cassette | Weight | Color |
|---|---|---|---|---|---|---|---|
| PC+ABS | L*W*H(mm)<br>605*160*87 | Max Capacity 26 Cores | AFAT-001-08=1pcs | SC x 9pcs | 1 x 1:8 Steel Tube Splitter | 3.0kgs | Black |
| | | | AFAT-001-16=2pcs | SC x 18pcs | 2 x 1:8 Steel Tube Splitter | 3.5kgs | |



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