

## 576 Cores 1 IN 6 OUT

### Fiber Optic Splice Dome Generic Closure

- For FTTx Solution



#### Product Overview

This kind of Generic Fiber Optic Splice Dome Closure from ARTIC FIBER in China, which is splice closure is a high-capacity, field-proven solution designed for secure and reliable fiber management in demanding environments. Supporting up to 576 FO across 24 trays (24 splices per tray), this IP68/9-rated dome enclosure offers exceptional protection against water ingress, UV exposure, and temperature extremes. With six round ports and one oval port for flexible cable entry, robust mechanical sealing, and compliance with IEC standards, it is ideal for wall, pole, or direct burial installations in both new deployments and network upgrades.

## Keyed Characteristics

- ✓ 6 x Round Glands;
- ✓ 1 x Oval Gland;
- ✓ 8 x 900mm Buffer tubing;
- ✓ 6 x cable ties;
- ✓ 100 x 40mm splice protectors;
- ✓ 2 x Earth Strips;
- ✓ 2 x cable retention bolts & nut;
- ✓ 1 x adhesive tape;
- ✓ 4 x silver heat protection tape;

## Application

- ✓ FTTX Solution and quick maintain for FTTH Network;
- ✓ Indoor and Outdoor harsh environment.

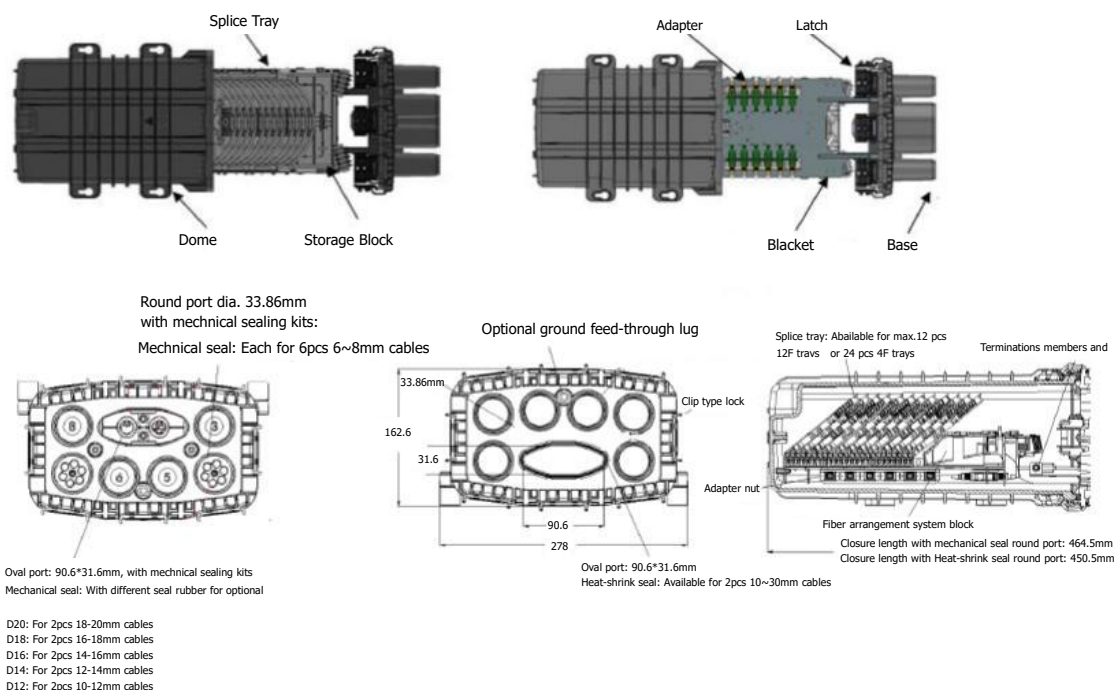
## Specification

- ✓ Working Temperature: -40 degrees centigrade~+65 degrees centigrade;
- ✓ Atmospheric Pressure: 62~106Kpa;
- ✓ Axial Tension: >1000N/lmin;
- ✓ Flatten Resistance: 2000N/100 mm(lmin);
- ✓ Insulation resistance:>2\*104MQ;
- ✓ Voltage Strength: 15KVC)/lmin, no arc over or breakdown7. Temperature recycle: under -40°C~+65°C, with 60(+5)Kpa inner pressure, in 10cycles: Inner pressure shall decrease less than 5 Kpa when closure turn to normal temperature;
- ✓ Durability: 25 years.

## Product Parameter

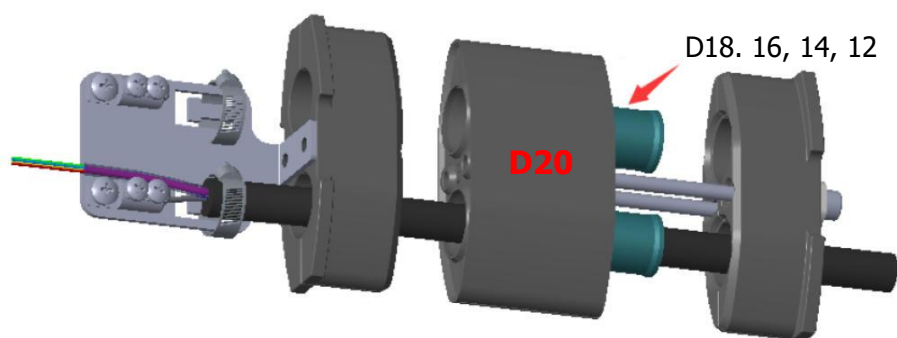
| Description                 | Details                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Ports Sealing Method        | Base and dome sealed with latches and O-ring system                                                               |
| Size: Biggest Point         | 278 x 162.6 x 464.5 mm                                                                                            |
| Entry Points Number         | 1 oval Input port<br>6 Output port                                                                                |
| Max Ttray Number            | 24 PCS                                                                                                            |
| Tray Capacity               | 24 PCS                                                                                                            |
| Max Closure Splice Capacity | 576F (If with 24F splice, total request on 24 pcs tray)<br>480F (If with 24F splice, total request on 20pcs tray) |
| Raw Material:               | Dome, Base: modified PP.<br>Clamp: Nylon +GF<br>Tray: ABS<br>Metal Parts: Stainless Steel                         |

## Outer Structure



|                      |                                                                                                                                                                                                                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Available Cable Dia. | <p>1 Oval port, with optional rubber spec:</p> <ol style="list-style-type: none"> <li>1) D20: For 2pcs 18-20mm Cable</li> <li>2) D18: For 2pcs 16-18mm Cable</li> <li>3) D16: For 2pcs 14-16mm Cable</li> <li>4) D14: For 2pcs 12-14mm Cable</li> <li>5) D12: For 2pcs 10-12mm Cable</li> </ol> |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Oval Port Details



## Main Components

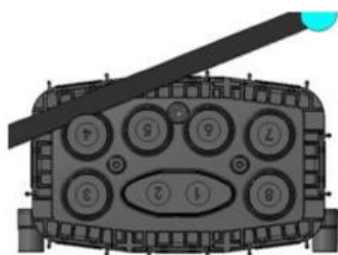
| Name                                    | Qty                   | Picture                                                                                                                                                                                       | Name                                | Qty     | Picture                                                                               |
|-----------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|---------------------------------------------------------------------------------------|
| Dome                                    | 1PC                   |                                                                                                              | Tray Optional                       | Max.24F |    |
|                                         |                       |                                                                                                                                                                                               |                                     | Max.12F |    |
| Base & Inner rack & Tray holder & Latch | 1PC                   |                                                                                                              | Vale Optinal                        | 1       |    |
|                                         |                       |                                                                                                                                                                                               | O-ring                              | 1       |    |
| Cable Strengthen Member Attach Plate    | 1 SET                 |                                                                                                              | Velcro with one X Flake             | 1       |    |
| Optic Joints Protection Tube Optional   | Max.576               |                                                                                                             | Ground feed-through Lug Optional    | 1       |   |
| Nylon Tie & Transparent PE Tube         | Max.1Bag              | <div></div> 8pcs 1 bag |                                     |         |                                                                                       |
| AMP Clamp Optional                      | 1                     |                                                                                                            | Shield Continuity Wire              | 1       |  |
| Desiccant Optional                      | 1                     |                                                                                                            | Cleaning Tissue                     | 1       |  |
| PVC Tape & Sealing Tape                 | Each 1 roll           |                                                                                                            | Tray Cover with Fiber Adjust Pencil | 1       |  |
| Wall Mounting Kits Optional             | Standard Offered with |                                                                                                           |                                     |         |                                                                                       |
| Aerial Mounting Kits                    | Order as Optional     |                                                                                                           |                                     |         |                                                                                       |
| Pole Mounting Kits                      | Order as Optional     |                                                                                                           |                                     |         |                                                                                       |
|                                         |                       |                                                                                                                                                                                               |                                     |         |                                                                                       |

**Sealing KIT for HEAT-SHRINK Sealing Closure**

|                                       |                  |   |                                                                                   |                                            |   |                                                                                     |
|---------------------------------------|------------------|---|-----------------------------------------------------------------------------------|--------------------------------------------|---|-------------------------------------------------------------------------------------|
| Heat-shrink Sealing Kits - Oval Port  | Heat-shrink Tube | 1 |  | Branch Off Clip                            | 1 |  |
|                                       | Abrasive Tape    | 1 |  | Aluminum Foil                              | 2 |  |
| Heat-shrink Sealing Kits - Round Port | Heat-shrink Tube | 6 |  | Abrasive Tape                              | 1 |  |
|                                       | Aluminum Foil    | 6 |  | Oval port Cable Attach Plate and Metal Pin | 1 |  |

**Installation Guidance**

**1.** According to the construction needs open cable holes on the base, use abrasive trip to polish the cable inlet and outlet until smooth, then clean up the port with cleaner.



**2.** Clean up the cable head which need to be spliced. First put the cables through the round and oval ports mechanical or heat-shrink sealing kits.



**3.** Strip off the outer sheath, the inner sheath of the loose shrinkable on the cable, clean the oil filling paste in the cable. Leave the fiber at the length of 1 to 1.6m, the strength steel core with the length of 30 to 50mm. Put the cable strengthen steel wire into the corresponding stud hole, adjust the distance, use pliers bend the steel wire to 90% degree but leave 1cm long, then cut off the spare steel wire. Tighten the screws on the stud.

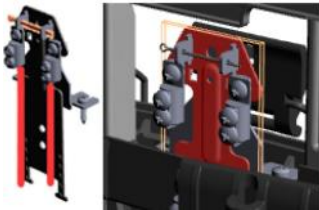
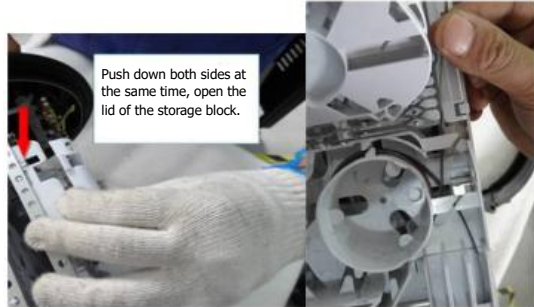
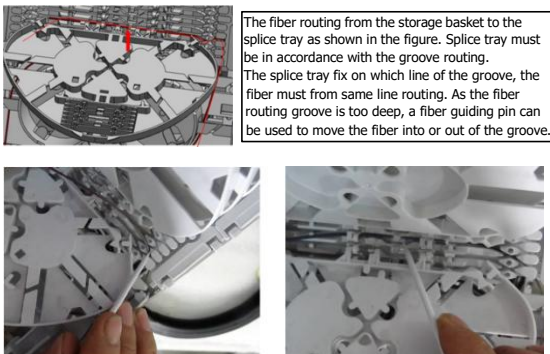


**4.** Put the bare fibers through the transparent PE tube, use PVC tape wrap the end of the PE tube and cable.



**5.** For mechanical closure, fix the cable in the oval port as below picture. Tighten the screws slightly, then put the oval port sealing kits into the oval port. (Do not tighten the screws too hard to cause deformation of the rubber here. Same as for the round mechanical sealing kits.)



|                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                     | <p><b>6.</b> For heat-shrink, fix the cable on the attach plate. then using the metal pin to fix the plate on the closure.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>7.</b> Fix the transparent bare fiber protective tube into the tube fixing holder, and store the optic fibers in the storage block. (The spiral tube is also available)</p>  | <p><b>8.</b> Store the optic fibers in the storage block.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>9.</b> Fiber routing from the storage basket to the splice tray.</p>                                                                                                       | <p><b>10.</b> Using the fiber adjust pencil to guide the optic fibers into the grooves of the tray holder.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>11.</b> Until the fibers close to the tray entry, then guide the fibers into the tray.</p>                                                                                 | <p><b>12.</b> Splicing of fibers in the splice tray.</p> <p>Pull gently on the fibers in the tray and make sure that the fibers are well general coiled in the contained in the routing block and tray holder. Store the fibers temporarily on the tray. The first lap fiber general coiled in the outermost side of the splice tray. The other fibers shall be coiled with the diameter not less than 80mm. Put the Splic protective tube on the fiber joints and fusion them together oderly. The fiber protective tube shall be put together with the fiber into the splice cassette. (First fix the fiber protective tube to the tray slots, and then enlarge the fiber Circle to proper size.)</p>  |

**13.** Repeat the steps, operate other splice tray from top to the bottom until all the fiber fusion is completed and confirmed, then put on the tray lid and storage block cover, then bind the Velcro strip.



**14. (OPTIONAL)**

Closure can hold max. 16 pcs adapter with SC adapter sized fixing holes. And 1pc 1\*16 splitter is available

