

# **144 Splice Dome Enclosure, 1\*oval, 6\*round,** **mechanical seal,12 trays, 12 splices/ tray - FIST Style**



Pt No. FOSP144-O6R-M-SPECIAL

The FOSP144-O6R-M-SPECIAL external splice closure is a high-capacity, field-proven solution designed for secure and reliable fibre management in demanding environments. Supporting up to 144 fibre splices across 12 trays (12 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.



Supplied with:

- 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
- 2 x L Brackets

SPECIFICATION	DETAILS
Ports Sealing Method:	Mechanical
Size: Biggest Point:	278 x 162.6 x 464.5 mm
Entry Points Number:	1 oval port 6 round ports
Max. tray number:	RQP-15-12c: 12 pcs RQP-26-4c: 24pcs
Tray Capacity:	RQP-15-12c: 12F/tray RQP-26-4c: 4F/tray
Max. closure splice capacity:	144F (if with 12F tray, total 12 pcs) 96F (of with 4F tray, total 24pcs)
Available cable dia.	1 oval port, with optional rubber spec: 1) D20: for 2pcs 18-20mm Cable 2) D18: for 2pcs 16-18mm Cable 3) D16: for 2pcs 14-16mm Cable 4) D14: for 2pcs 12-14mm Cable 5) D12: for 2pcs 10-12mm Cable <b>6 round ports: each with 6 holes for 6-8mm cable</b>
Raw Material:	Dome, Base: modified PP. Clamp: Nylon +GF Tray: ABS Metal Parts: Stainless Steel

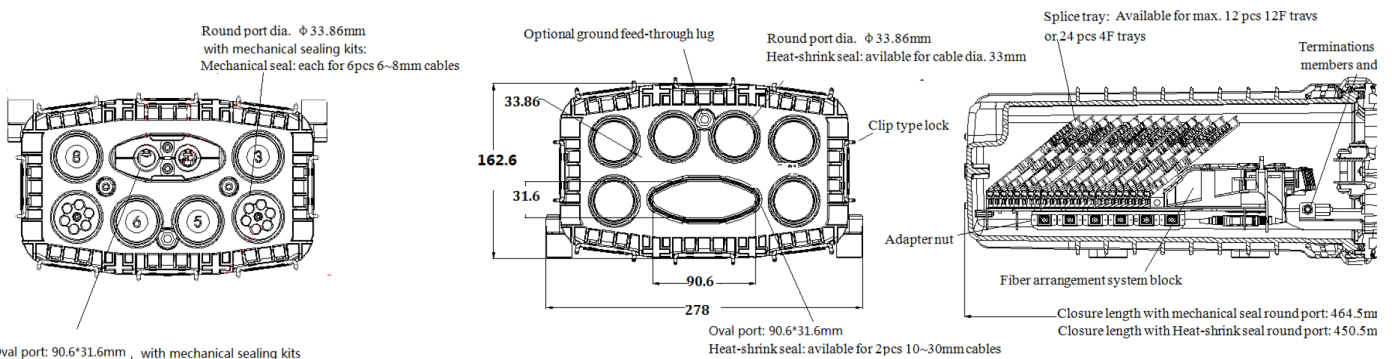
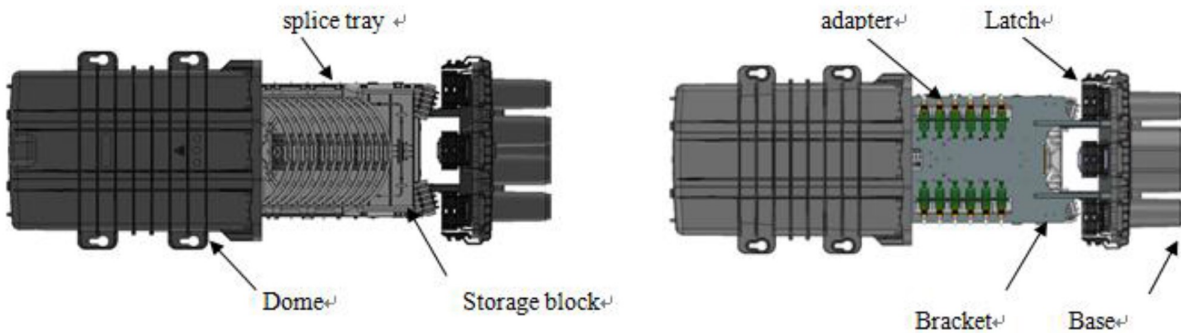
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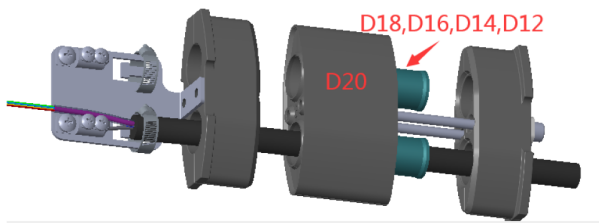
### 1.4 Outer Structure



Oval port: 90.6\*31.6mm , with mechanical sealing kits  
Mechanical seal: with different seal rubber for optional

- D20: for 2pcs 18-20mm cables
- D18 : for 2pcs 16-18mm cables
- D16: for 2pcs 14-16mm cables
- D14: for 2pcs 12-14mm cables
- D12 : for 2pcs 10-12mm cables

### Oval port details:







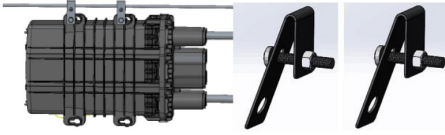




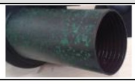







Part Number	Description
FOSP144-O6R-M-SPECIAL	144 Splice Dome Enclosure, 1*oval, 6*round, mechanical seal,12 trays, 12 splices/ tray - FIST Style

**1.5 Technical Parameter:**

1. Working Temperature: -40 degrees centigrade~+65 degrees centigrade
2. Atmospheric Pressure: 62~106Kpa
3. Axial Tension: >1000N/1min
4. Flatten Resistance: 2000N/100 mm (1min)
5. Insulation resistance: >2\*104MΩ
6. Voltage Strength: 15KV(DC)/1min, no arc over or breakdown
7. 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.
8. Durability: 25 years

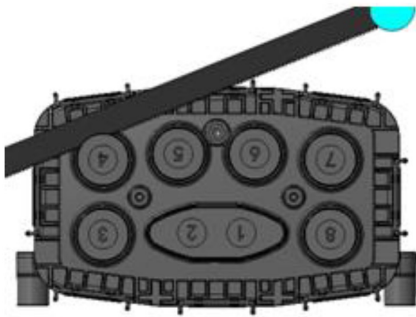
**1.6 Main components:**

Name	Qty	Picture	Name	Qty	Picture
Dome	1pc		Tray <i>optional</i>	Max.24	 RQP-26-4c
				Max. 12	 RQP-15-12c
Base & Inner rack & tray holder & Latch	1pc		Valve	1	 <i>optional</i>
			O-ring	1	
Cable Strengthen member attach plate	1set		Velcro strip with one X flake	1	
optic joints protection tube	Max. 144	 <i>optional</i>	Ground feed-through lug	1	 <i>optional</i>
Nylon tie & Transparent PE tube	Max. 1 bag	  8 pcs/bag			
AMP clamp	1	 <i>optional</i>	Shield continuity wire	1	
Desiccant	1	 <i>optional</i>	Cleaning tissue	1	 <i>optional</i>

PVC tape & Sealing tape	Each 1 roll		Tray cover with fiber adjust pencial	1	
Wall mounting kits	1 Standard offered with				optional
Aerial mounting kits	Order as optional				
Pole mounting kits	Order as optional				
<b>Sealing KIT for MECHANICAL sealing closure</b>					
Mechanical Sealing kits – oval port	Oval port kits	1 pc		φ3 allen wrench	1 pc 
Mechanical Sealing kits – round port	Round ports kits	6 pcs			
<b>Sealing KIT for HEAT-SHRINK sealing closure</b>					
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 

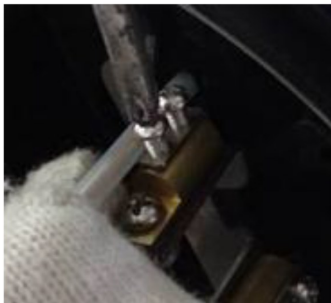
## 1.7 Installation Guidance

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



1.7.3 Strip off the outer sheath, the inner sheath of the loose shrinkable tube 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.

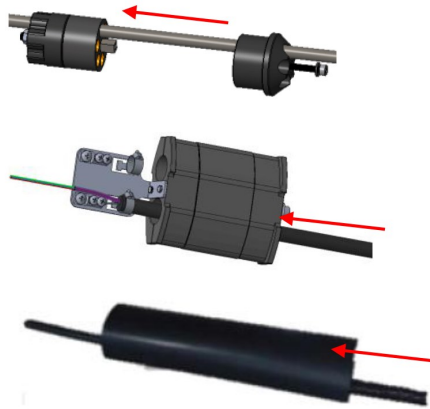
Put the cable strengthen steel wire into the corresponding stud hole, adjust the distance, use paeillas bend the steel wire to 90°degree but leave 1 cm long ,then cut off the spare steel wire. Tighten the screws on the stud.



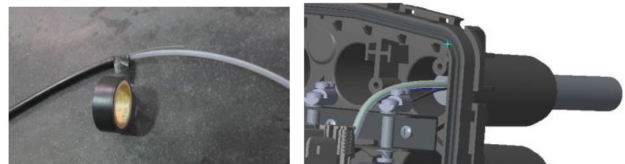
1.7.5 Fix the transparent bare fiber protective tube into the tube fixing holder. And store the optic fibers in the storage block. (The spiral tube is also available)



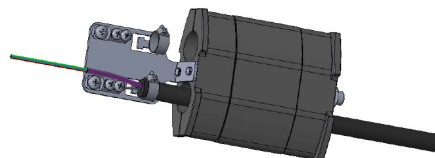
1.7.2 Clean up the cable head which need to be spliced. First put the cables through the round and oval ports mechanical or heat-shrink sealing kits..



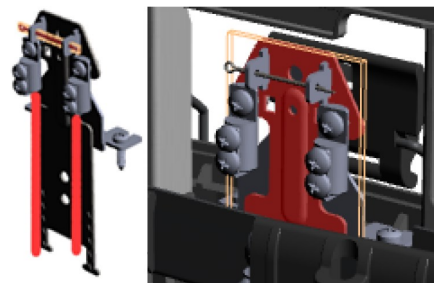
1.7.4 Put the bare fibers through the transparent PE tube . Using PVC tape to wrap the end of the PE tube and cable.



1.7.4.1 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.)



1.7.4.2 For heat-shrink, fix the cable on the attach plate, then using the metal pin to fix the plate on the closure.



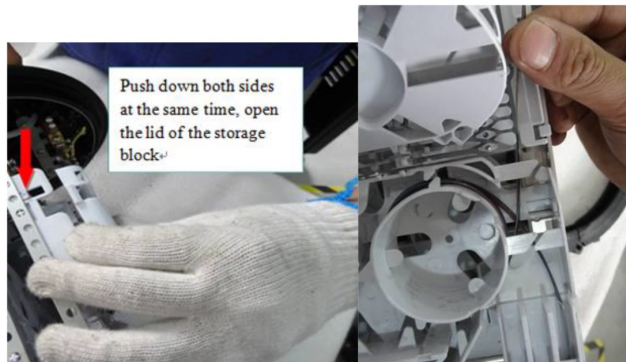
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### 1.7.6 Store the optic fibers in the storage block

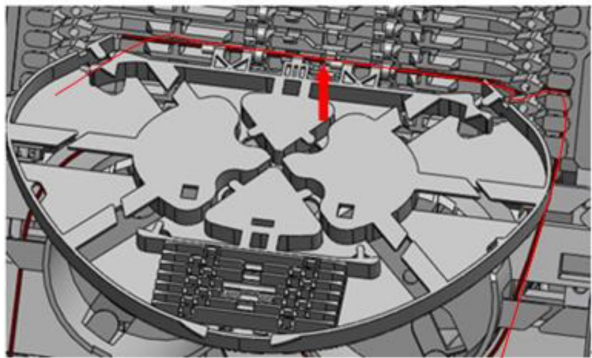


### 1.7.7 Fiber routing from the storage basket to the splice tray.

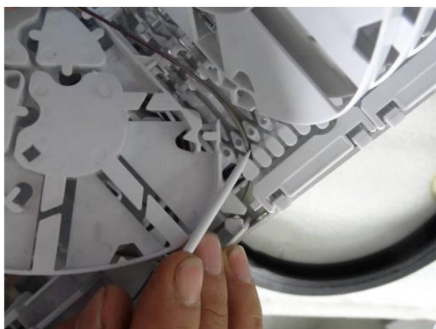


When splicing, pick up the steel wire on the splice tray, then stuck on the slot of the route to support up the splice tray.

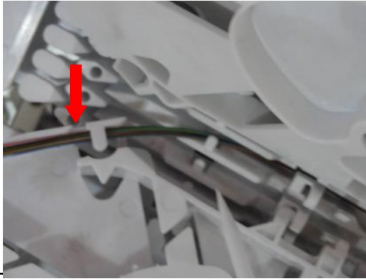
### 1.7.8 Using the fiber adjust pencil to guide the optic fibers into the grooves of the tray holder



The fiber routing from the storage basket to the splice tray as shown in the figure. Splice tray must be in accordance with the groove routing, The splice tray fix on which line of the groove, the fiber must from same line routing. As the fiber routing groove is too deep, a fiber guiding pin can be used to move the fiber into or out of the groove.



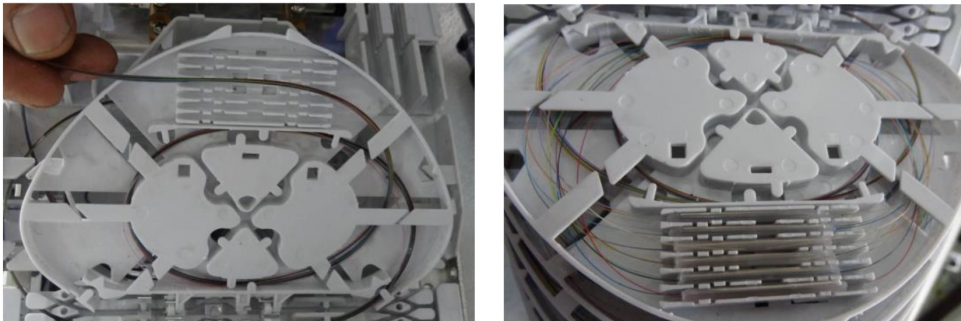
1.7.9 Until the fibers close to the tray entry, then guide the fibers into the tray



1.7.10 Splicing of fibers in the splice tray.

Pull gently on the fibers in the tray and make sure that the fibers are well 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 fiber shall be coiled into circle with the diameter not less than 80 mm

Put the splice protective tube on the fiber joints and fusion them together orderly. 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.)

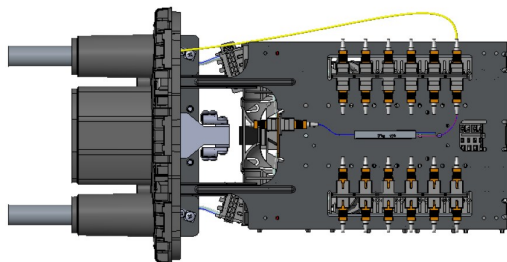


1.7.11 Repeat the steps, operate other splice tray from top to the bottom until all the fiber fusion is completed and confirmed, then put on the tray lid and storage block cover , then bind the Velcro strip.



1.7.12 (OPTIONAL)

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



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