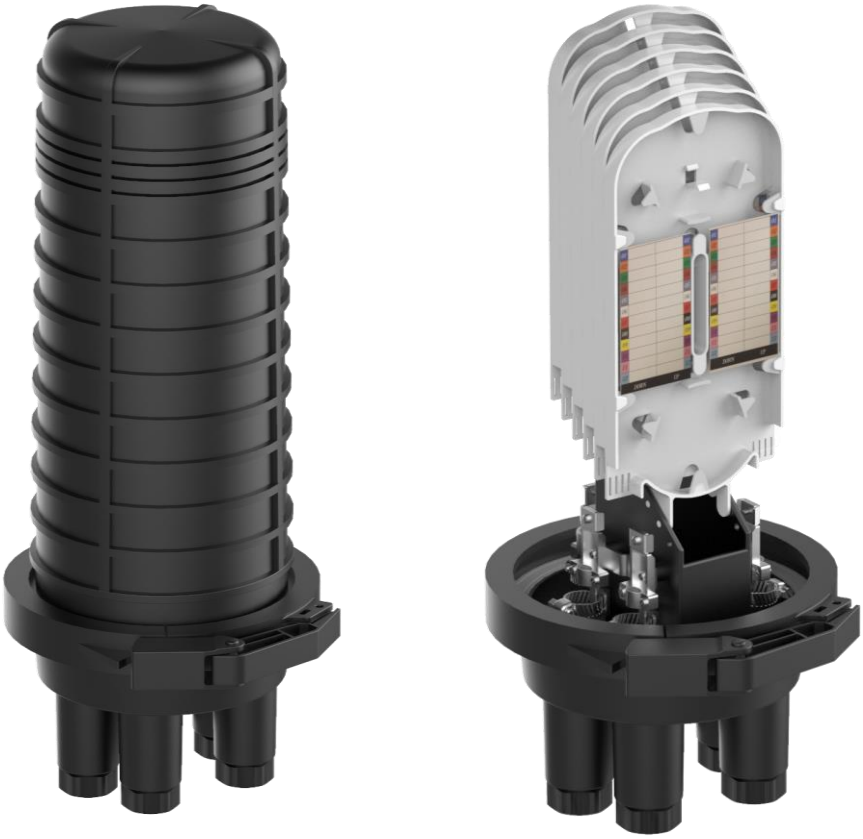
FOSC - Mechanical Seal Dome Type LS

Features



Fiber optic splice closure (FOSC) is mainly applicable to the straight-through and branching of aerial cables, buried cables and duct cables, as well as the protection on cables joints.

- Mechanical seal can be re-open which make maintenance and capacity increasing more convenience.
- Straight-through, branching, splitter, splicing, and adaptation is available.
- Supports loose tube cable, slotted core cable, drop cable.
- Application Environment: aerial, buried and manhole.
- Stackable splice tray, easy open and maintenance
- Compatible with most common cable types
- Dimensions and safety meet international standards
- Constructed of non-corrosive materials
- Splice tray can be easily increased and reduced according to capacity.
- The bending radius of fibers in any place is greater than 30mm.
- Recommendation of life span for 25 years (depends on environment)

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Specifications

Physical characteristics

Dimension	D230mm x H435 mm
Weight (without kit)	About 3.2 kg
Cable diameter	Ø10- Ø17.5 mm dia.
Cable ports	1 uncut (Straight-through) input cable hole and 4 branching holes, Total 6 Ports
Max. Splice tray capacity	6 pcs
Maximum fiber storage capacity	144 cores (bunch)

Main components

No.	Name of components	Quantity	Usage	Remarks
1	Housing	1 set	Protecting fiber cable splices in whole	Internal diameter: D1700mm x H350 mm
2	Fiber optic splice tray (FOST)	max. 6 pcs (bunchy) max. 4pcs (ribbon)	Fixing heat shrinkable protective sleeve and holding fibers	Suitable for: Bunchy:12,24 (cores) Ribbon: 3 (pieces)
3	Foundation	1 set	Fixing reinforced core of fiber- cable and FOST	
4	Seal fitting	1 set	Sealing between FOSC cover and FOSC bottom	
5	Port plug	4 pieces	Sealing empty ports	
6	Pressure testing valve	1 set	After injecting air, it is used for pressure testing and sealing testing	Configuration as per requirement
7	Earthing deriving device	1 set	Deriving metallic components of fiber cable in FOSC for earthing connection	Configuration as per requirement

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Specifications

Main Technical characteristics

Tightness	Internal pressure: (100 ± 5) kPa, Just below water surface at room temperature (23 ± 3) ℃, Test time: 15 minutes; No bubbles indicating a leakage shall be observed during the test.
Re-entries	Repeat procedures of the 3rd package after the test. Internal pressure: (100 ± 5) kPa, Just below water surface at room temperature(23 ± 3)℃,Test time: 15 minutes; No bubbles indicating a leakage shall be observed during the test.
Cable axial tension	Bear more than 800N Cable axial tension, the tightness and visual appearance is ok;
Cable flexure	Tension load for the 150N, bending angle of ± 45 ° after 10 bending cycles, the tightness and visual appearance is ok;
Cable torsion	Torque for maximum rotation 90°/maximum 50 Nm; after 10 torsion cycles, the tightness and visual appearance is ok;
Impact	The energy is 16Nm, after 3 cycles, the tightness is ok;
Static load	Withstand the pressure 2000N/100mm during 1 min, the tightness and visual appearance is ok;
Voltage resistance strength	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 arc over between the metallic components of the FOSC, between metallic components and the ground at DC 15KV for 1 minutes.
Isolating resistance	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 and the ground should be ≧ 2×10(4)MΩ.

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Specifications

Applications Environment

- Operating Temperature: – 40℃~+ 60℃
- Storage Temperature: – 40℃~+ 70℃
- Atmospheric pressure: 70kPa~106kPa

Description

- IP68 Protection
- Rodent Proof
- PC Material, Anti-UV, inflaming retarding, rainfall resistant
- The bending radius of FOSTs meet the international standard
- Earthing deriving devices integrated seal, airtight and water proof

Standards comply

- RoHS Compliant
- ITU L.13-2003
- UL94

Package

Item is adequately packed and secured to withstand rough handling during transportation, to reach destination in good condition.

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Ordering Information

P/N	Description
R4940019	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 12 Fibers
R4940020	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 24 Fibers
R4940021	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 48 Fibers
R4940022	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 96 Fibers
R4940023	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 144 Fibers
R4940415	Fiber Optic Splice Closure, Dome, Mechanical Seal Type LS, 288 Fibers*

*Note: * Specifications of the Closure with capacity more than 144 Fibers to be coordinated as per requirement.*