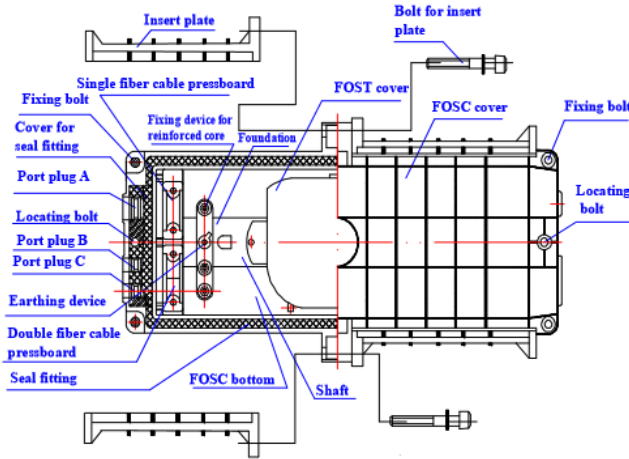


## Horizontal Fiber Optic Splice Closure (FOSC)

### HSC-E

#### Scope of application

The scope of application is: aerial, underground, pipeline, handhole. The ambient temperature ranges from -40°C to 65°C.

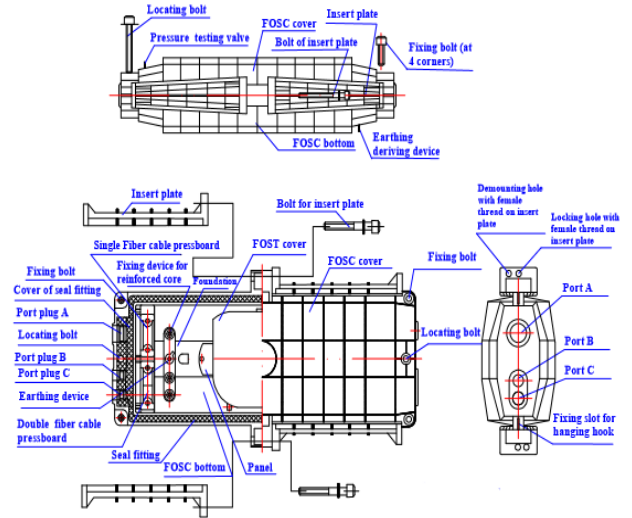
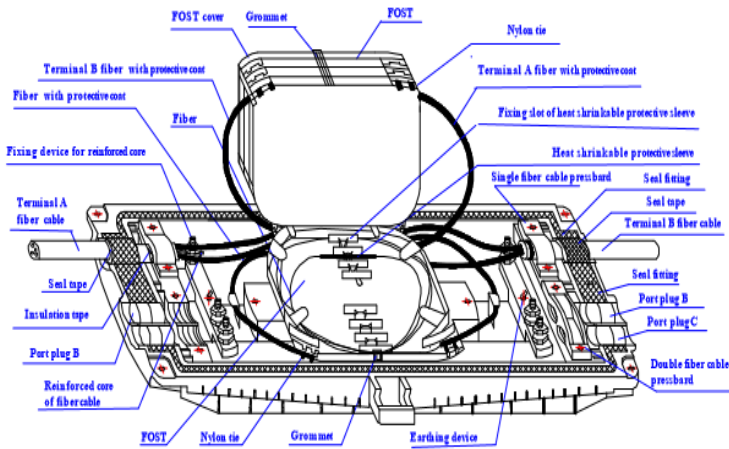


#### Dimension and capacity

Outside dimension (LxWxH)	450x216x110(mm)
Weight (excluding outside box)	2750g—3200g
Number of inlet/outlet ports	3(pieces)oneachside(total6pieces)
Diameter of fiber cable	Φ8mm~Φ23 mm
Capacity of FOSC	Bunchy: 6-96 (Cores), Ribbon: max. 216 (Cores)

#### Main components

No.	Name of components	Quantity	Usage	Remarks
1	Housing	1 set	Protecting fiber cable splices in whole	Internal diameter: 378x136(mm)
2	Insertplate	2 pairs	Fixing the housing	175x56x30(mm)
3	Fiber optic splice tray (FOST)	Max 4 pieces (either bunchy or ribbon)	Fixing heat shrinkable protective sleeve and holding fibers	Suitable for: Bunchy:6,12,24(cores) Ribbon:3,6(pieces)
4	Foundation	1 set	Fixing reinforced core of fiber-cable and FOST	
5	Seal fitting	1 set	Sealing between FOSC cover and FOSC bottom	
6	Port plug	6 pieces	Sealing empty ports	
7	Pressure testing valve	1 set	After injecting air, it is used for pressure testing and sealing testing	Configuration as per requirement
8	Earthing deriving device	1 set	Deriving metallic components of fiber cable in FOSC for earthing connection	Configuration as per requirement



## INSPECTING ITEM AND TECHNICAL REQUIREMENTS

<b>FIBER STORAGE DEVICE</b>	The fibers reserved are to be wound in fiber optic splice tray (FOST), the length of fibers housed in FOST is >1.6m, the curved radius is >30mm. During the installation and maintenance, there should be no attenuation on fibers.
<b>RE-SEALING PERFORMANCE</b>	After reopening and resealing according to the stipulated operation procedures, the injected air pressure is 100KPa ±5Kpa, when immersed in clean water of normal temperature for 15 minutes, there should be no air bubbles, then observed for 24 hours, there should be no change of air pressure.
<b>PULL</b>	Bearing pull is $\geq 800\text{N}$ at axle orientation, there should be no breakage on the housing.
<b>PUNCHING</b>	Bearing pressure of 2000N/10cm for 1 minutes, there should be no breakage on the housing.
<b>IMPACT</b>	Bearing impact energy of 16N•m, 3 times of impacts there should be not breakage on the housing.
<b>BENDING</b>	The spot between the FOSC and seal fitting can bear bending tension of 150N at bending angle of $\pm 45^\circ$ for 10 circles, there should be no breakage on the housing.
<b>TORSION</b>	Bearing torsion 50N•m, 10 circles at torsion angle $\pm 90^\circ$ , There should be no breakage on the housing.
<b>TEMPERATURE CIRCLE</b>	Injected air pressure of 60KPa±5 KPa, the temperature circle ranging from $-40^\circ\text{C}\sim+65^\circ\text{C}$ , 10 times of the circular tests (one circular consists of high temperature for 2 hours + indoor temperature for 2 hours + low temperature for 2 hours + indoor temperature for 2 hours) when the pressure declines, the amplitude is $\leq 5\text{Kpa}$ , immerse the swatch in clean water of normal temperature for 15 minutes, there should be no air bubbles.
<b>VOLTAGE RESISTANCE STRENGTH</b>	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.
<b>ISOLATING RESISTANCE</b>	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 $\geq 2 \times 10^4 \text{M}\Omega$ .