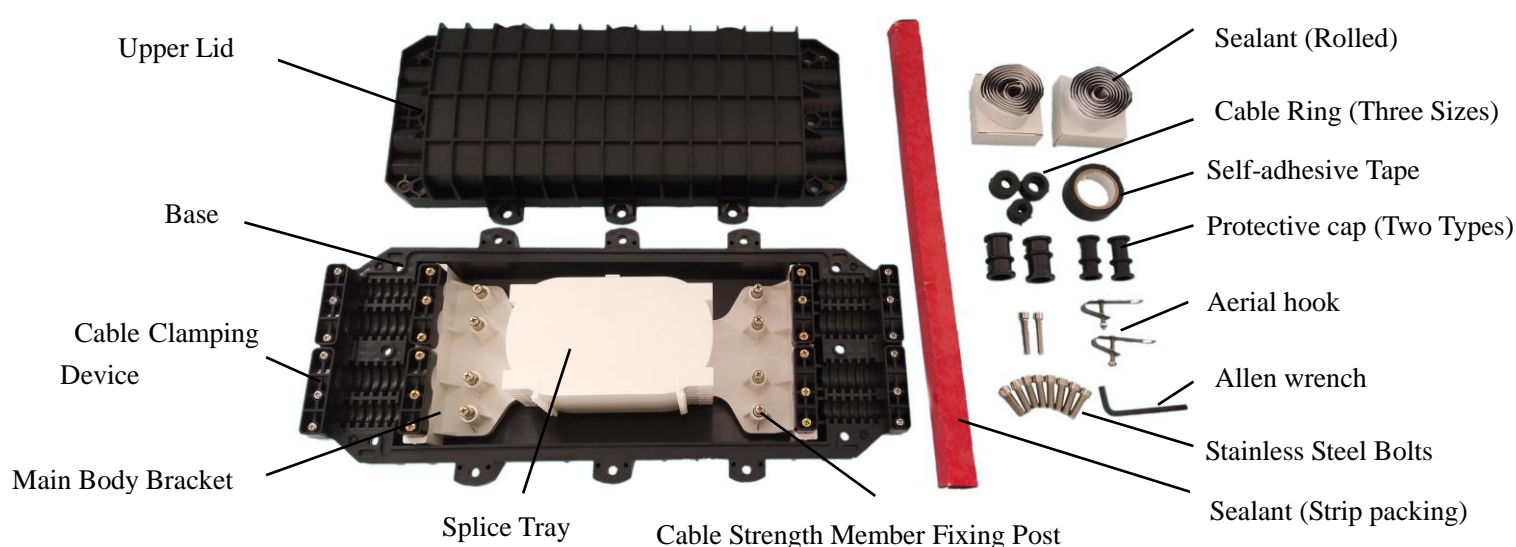


Fiber Optic Splice Closure Specification

CM-FOSC-H47B (up to 144C)

1. Application

This product is suitable for straight-through connection of various types of structural optical cables (single fiber and ribbon) with a diameter less than $\phi 22\text{mm}$ in aerial, pipeline, direct burial and manhole deployment scenarios. At the same time, it is also suitable for the connection of plastic local telephone cables.



2. Features

- ◆ The performance of this product meets the requirements of YD / T814-1996 standard.
- ◆ The outer housing of closure is made of high-strength engineering plastics (PP), high-pressure injection molding with the addition of anti-aging agents, and the shape is a horizontal ellipse. It has the characteristics of light weight, high mechanical strength, strong corrosion resistance, lightning resistance and long service life.
- ◆ The outer housing and cable inlet are sealed with self-adhesive (non-vulcanized) rubber strips, providing reliable sealing performance, and easy to open and use repeatedly.
- ◆ Cable ports: 4in & 4out. Max capacity: 192cores (single fiber).
- ◆ IP68 rated
- ◆ Equipped with three specifications ($\phi 12.5$, $\phi 17$, $\phi 20$) cable rings (O-rings), allowing users to flexibly choose according to the actual outer diameter of the optical cable, effectively enhancing the reliability and practicality of the fiber splice closure inlet cable hole sealing.
- ◆ The stacked structure of the fiber splice trays and independent insulation and grounding device in the closure make the configuration, expansion of the optical fiber and the grounding of the optical cable flexible, convenient and safe.
- ◆ The metal components and fasteners on the outside of the closure are made of stainless steel.

3. Main Technical Specifications

- ◆ External dimensions (L*W*H): 515 (mm) × 230 (mm) × 125 (mm)
- ◆ Weight: 3.0kg
- ◆ Fiber bending radius: ≥ 40 mm
- ◆ Splice tray additional loss: ≤ 0.01 dB
- ◆ Storage fiber length: ≥ 1.6 m
- ◆ Max capacity(single fiber): 192 core
- ◆ Working temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- ◆ Anti-lateral pressure: ≥ 2000 N / 10cm
- ◆ Shock resistance: ≥ 20 N.m

4. Operation Instructions

- ◆ Choose a cable ring that is suitable for the outer diameter of the optical cable, penetrate the optical cable into the ring, peel off the optical cable, remove the outer sheath, inner sheath, loose tube, clean and remove the filling gel in the cable, and leave the fiber length of 1.1 to 1.6m and 30~50mm steel fiber strength member.
- ◆ Fix the optical cable with cable clamping device, and fix the optical cable steel strength member at the same time. If the cable diameter is less than 10mm, use a self-adhesive tape to wind the fixed part of the optical cable until the diameter reaches 12mm and then fix it.
- ◆ After the optical fiber is introduced into the splice tray, the heat shrinkable protection tube is sleeved on any side of the optical fibers to be spliced. After the optical fiber is spliced, move the heat shrinkable protection tube to position the optical fiber splice point at the center of the heat shrink splice protection tube. Heat the protective tube appropriately, and fuse the optical fiber with the protective tube together. Then protected optical fiber is snapped into the fiber slot in the tray. (Each splice tray can hold up to 24 fibers).
- ◆ Distribute the redundant optical fibers evenly in the splice tray, and fix the coiled optical fibers with a nylon cable tie. The splice tray is generally used from bottom to top. After all the optical fibers are spliced, cover the tray lid on the top layer of the splice tray and fix it.
- ◆ Position and use the ground wire according to the engineering design requirements.
- ◆ Wrap the optical fiber cable with sealing tape at the corresponding position on the cable inlet of the splice closure housing. Put sealant strips in the sealing grooves on both sides of the edge of the splice closure housing, close the upper and lower housing of the splice closure, and tighten the stainless steel bolt. It is required that when the bolts are tightened, the force is symmetrical and uniform, until they are fully tightened.
- ◆ Position and fix the aerial hook according to the deployment requirements.

5. Packing List

| | | | |
|---|--|---|----------------|
| 1 | Splice Closure Body | Closure lid, base, main body bracket, cable clamping device and cable strength member fixing post | 1set |
| 2 | 24Core Splice Tray | Tray base (configured according to capacity), Tray lid 1pc | 1 ~8 set |
| 3 | Splice Accessories Kits (configured according to capacity) | Heat shrink splice protection tube | 1~192pcs |
| | | Numbering Label (1~12) | 1~16pcs |
| | | Nylon Cable Tie | 5pcs/bag |
| | | Abrasive Paper | 1pc /bag |
| 4 | Stainless Steel Accessories | M5×30 bolts, nuts | 2 sets |
| | | Aerial hook | 2 pcs |
| | | M8×25 bolts | 10pcs |
| | | M8×35 bolts | 2pcs |
| | | Allen wrench | 1pcs |
| 5 | Plastic Accessories Kits | Protective cap (big and small) | 2pcs each type |
| | | Cable Ring φ12.5 (Optional) | 8pcs |
| | | Cable Ring φ17 (Optional) | 8pcs |
| | | Cable Ring φ20 (Optional) | 8pcs |
| 6 | Self-adhesive Tape | | 1 roll |
| 7 | Sealant (strip packing) | | 1pc |
| 8 | Sealant (Rolled) | | 2pcs |
| 9 | User Guide | | 1pc |