



## Applications:

PC-ES-2024 type of fiber closure is a fiber optic cable splice of multiple purposes, which can connect and protect cables. The fiber closures are suitable for protecting fiber cable splices in straight-through and branching applications. It can be placed in underground, aerial, wall-mounting, pedestal or direct buried, hand hole-mounting and duct-mounting applications. We always aim to the R&D of communication equipment. Our fiber closures can improve the operation of your network communication system. Closure is suitable for the applications up to 240 single fibers, which can cover most of the applications in the long-distance transmission and local fiber distribution networks, like Fiber To The Home / Fiber To The Curb (FTTH/FTTC). It can be applied to areas such as underground, aerial, pedestal or direct buried.

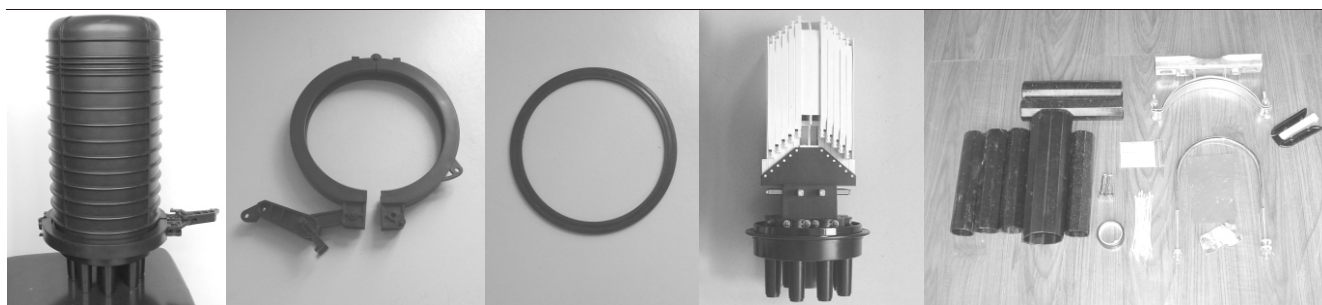
## Specifications:

Type	Size(mm) $\phi \times H$	Single Max. Capacity (core)	Quantity of the splice tray	The diameter of the suitable optic cable
PC-ES-2024	260x465	240	1-10	$\phi 6 - \phi 17.5(\phi 23)\text{mm}$
Weight kg	Entrances	Airproof type	Material	Reinforced core
5.45	7	Heat Shrink	ABS, PC	Steel wire

## Main technical data:

- Environment temperature:  $-40^{\circ}\text{C} + 65^{\circ}\text{C}$ .
- Max. capacity: 240 cores( using single core fiber).
- Range of the suitable diameter of the cable:  $\phi 6\text{mm} - \phi 17.5 \phi 23\text{mm}$ .
- Airproof performance: Airing pressure inside box 100Kpa pointer immovability after 24 hours or no air bell within 15min when parked in the common temperature water.
- Re-encapsulation performance: no change in the index of air-proof performance after three times of repeat encapsulation.
- Insulation resistance:  $\geq 2 \times 10^4 \text{M}\Omega$
- Voltage-resistance strength under the effect of 15kvDC/1min , non-puncture, no arc-over.

## Structure and Components:



## Accessories - Main components:

No.	Name	Quantity	Marks
1.	Cover	1 piece	Height × Diameter 465×φ260 (mm)
2.	Fiber splice tray	1 set	
3.	Base	1 set	Fixing internal and external structures
4.	Plastic hoop	1 set	Fixing bottom and cover
5.	Seal fitting	1 piece	Waterproof and sealing
6.	Bilateral entwined tray	1 set	The fibers reserved to be entwined
7.	Earthing device	1 set	Deriving metal parts of fiber cables in closure for earthing.

## Accessories and tools:

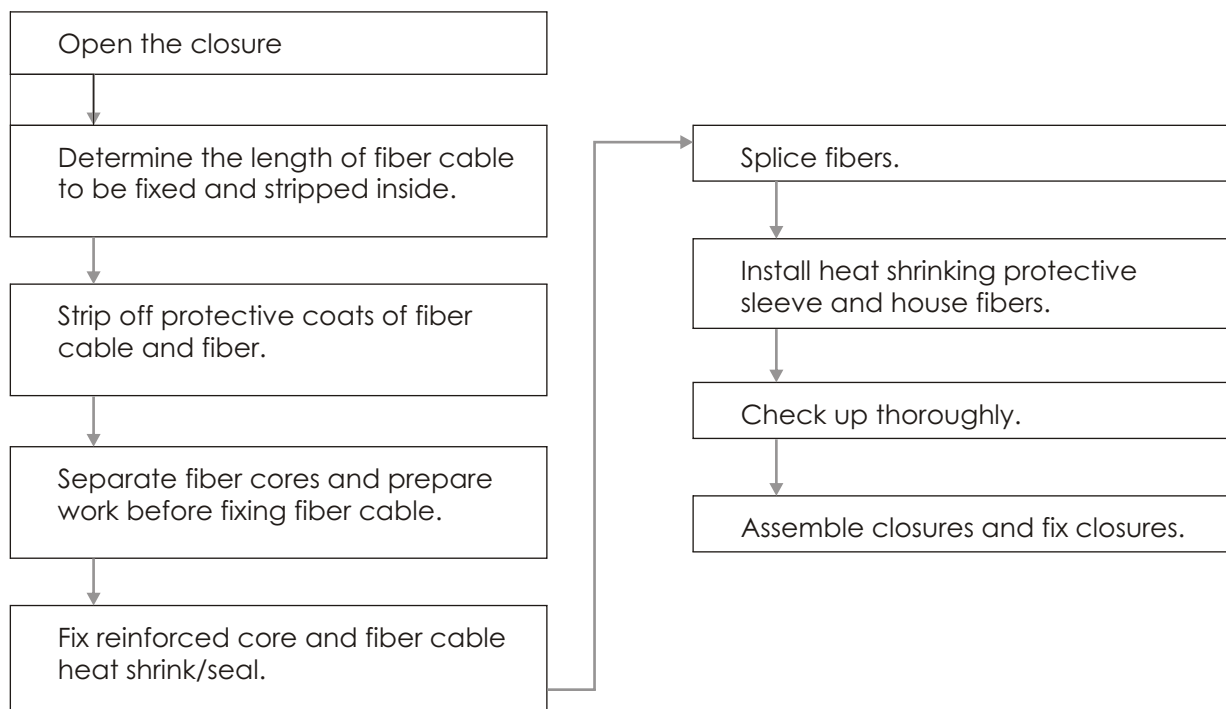
No.	Name	Quantity	Application
1.	Heat Shrinkable sleeve	1 piece	Fiber fusion and protection
2.	Nylon tie	16 piece	Fixing fiber with protective coat
3.	Pole hoop	1 set	Fixing for closure on pole
4.	Labeling paper	1 piece	Fiber labeling
5.	Insulating tape	1 piece	
6.	PVC transparent hose	1 piece (30mm)	Protect fiber



## Optional Accessories:

No.	Name	Quantity	Application
1.	Heat shrink tube	6 pieces φ30×150 (mm)	Optic cable heat shrink and sealing
2.	Dual heat shrink tube	1 piece φ75×150 (mm)	Dual optic cable heat shrink and sealing
3.	Pressure testing valve	1 set	Testing after closure sealed
4.	Silver tape	1 set	Fiber protection
5.	Sand paper	1 set	Cleaning
6.	Branching clip	1 set	Branching optic cables

## Installation flow chart:



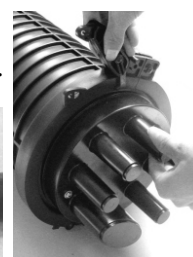
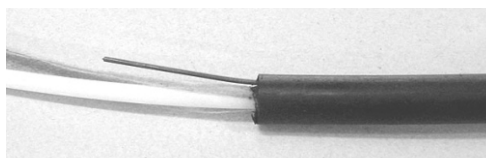
## Direction:

### 1. Preparation

- Please check the cable structure and the fiber type before starting installation. Different types of fibers can't be spliced together.
- Seal the splicing part perfectly to minimize damages to the cable caused by moisture. Don't apply any impact to the splicing part.
- Keep the working place free from moisture and dust. Don't give any impact on the cables. Don't bend or entwine cables.
- During the sheath stripping and the closure assembling procedures, use permitted tools according to the approved fiber optic splicing standard in your region.

### 2. Cable installation

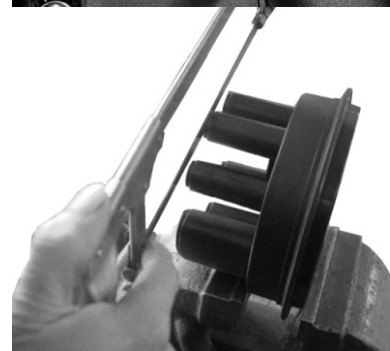
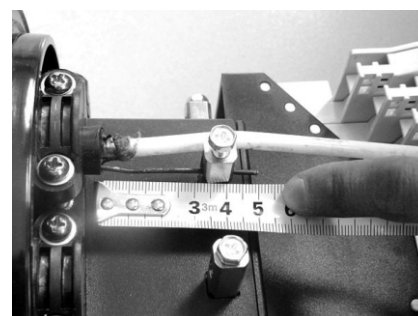
- Mark the cutting point on the cable, the length of stripping being about 180cm.

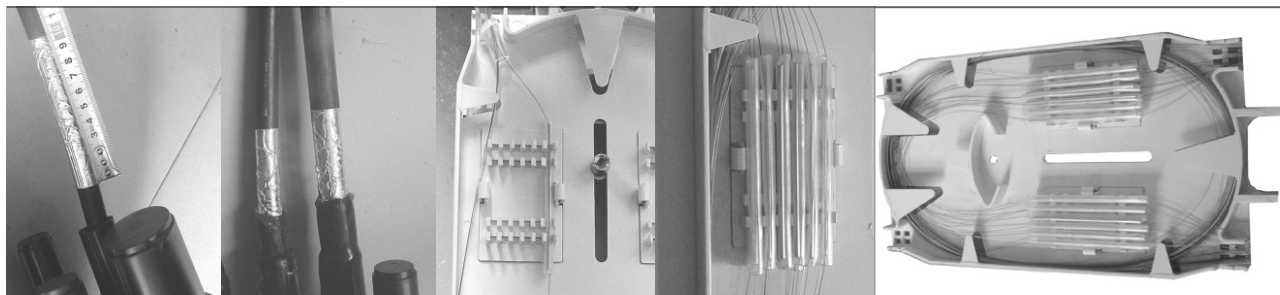


- Remove the unnecessary cable sheath from the marked point with a sheath stripper.  
**Note 1.** Be sure not to damage the fiber.  
**Note 2.** Do not use any damaged cable.  
**Note 3.** While remove the cable sheath, please do not cut, twist or damage fiber coat. Reserve enough length to ensure repair and maintenance in case an accident happened.
- Cut off the extra reinforced core about 5cm from the removing point on the sheath.

### 3. Installation of fiber closure

- Check the specified type and all the accessories of the fiber closure.
- Open the fiber closure. Unlatch the locked device on plastic hoop, open plastic hoop in order to separate the cover and bottom.  
**Note.** Because the sealing performance is predominant, please be careful when separating the cover and bottom so as not to damage the case. Check the specified type and all the accessories of the fiber closure.
- Insert cable into fiber closure.
  - Select the appropriate cable inlet ports and cut less than 5mm from the applicable ports with a saw or other suitable tools.
  - Insert the removed cable into the heat shrink tube first, then into the inlet port
  - Fix the reinforced core and fiber cable
    - a. Place the reinforced core plug in the device of fixing reinforced core, then tighten the bolts using a screwdriver or a wrench.
    - b. Fix the cable on the bracket with compact device**Note:** Be careful not to damage the fiber





### ▼ 3. Installation of fiber closure

- ▼ ● Insert cable into fiber closure.
  - Rub and clean the inlet ports and the cable with a piece of sandpaper to allow the sealing adhesives inside the heat shrink tube to be attached to each side around.
  - Wrap 10cm long cable with silver tape to protect cable inlet sheath (6cm long cable was covered by heat shrink tube).
  - Heating heat shrink tube. Push the heat shrink tube up to the cable inlet port and heat the tube but not let the fire close to the inlet port. *(When using dual type heat shrink tube, inset the metal branching clip as the figure shown before heating.)*
- Note.** When heating the tube, heat the tube around the cable equally.
- Distribution, protection and fix of the fibers. Distribute the fiber according to require, and then let the fiber through the PVC transparent hose and fixed at entrance of fiber tray by nylon tie.
- Splices fibers and coil surplus fibers. Fusion and splice fibers on bracket using an approved splicing method, then cover the splice tray cover after splice fibers.
- Assembling the closure. After install of cables, put sealing loop on case, then place the dome shaped cover onto the bottom portion. Fasten the dome shaped cover and the bottom portion together with a plastic hoop.
- Fiber testing and sealing test. It's possible to test after the closure are pressurized, and it's possible to protect optic cables with earthing device (Pressure testing valve is optional).
- Fix the fiber closure
  - a. Fix the hanger on the concrete pole with the M10 560 screw, then tighten the nut.
  - b. Fix the body of the fiber closure and tighten the nut.

#### ■ Note:

Using the six small cable inlet ports, the diameter of the cable should not be more than  $\phi 17.5\text{mm}$ , if the big port, it should not be more than  $\phi 23\text{mm}$ .

