

# FAT-I-29 Optical Fiber Distribution Box Installation Manual

Version:1.0



## 1. Description:

FAT-I-29 Fiber Distribution Box is made of high-strength engineering plastics, anti-UV, anti-aging ability. The distribution box is sealed adopts buckle + anti-theft lock structural seals, and the left and right turnover structure of the housing is opened. It is can accommodate 24 SC adapters and four 1:8 blockless splitters, four 12 cores splicing tray. The max. capacity of 48 cores. The main function of this product is to provide mid-span + branch for various types of branch cables in optical transmission links, and to provide protection functions by splitting and wiring. The output of the wiring terminal using pigtail to connect and fixed. The product can be installed outdoor use, it can wall or pole mounting.

## 2. Specifications:

<b>Model No.</b>	<b>FAT-I-29</b>
Dimension(L×W×H) mm	335×266×112mm
Cable Entries	●2 Nos. ports are suitable for Φ8-19mm mid-span cable. ●3Nos. Φ8-19mm branch cable or multiple diameter Φ4-8mm micro optical fiber cable
Splicing Tray	4 pcs 12 fiber per tray
No. of Adapter	Max. 24 pcs SC/APC
Max. Capacity	48 cores
Material	The shell is PC engineering plastic, and the inner parts are ABS+PC
IP rating	IP55

## 3. Main points during operation

**3.1** Unscrewing the screw of the press plate of the mid-span sealing ring, taking out the mid-span hole press plate, and sticking the uncut main cable into the seal ring of the mid-span hole, and then covering mid-span hole press plate and tightening the mid-span hole press plate screw, which can ensure the seal of the main cable. If the cable diameter is small, it can also wrap the tape to increase its diameter.

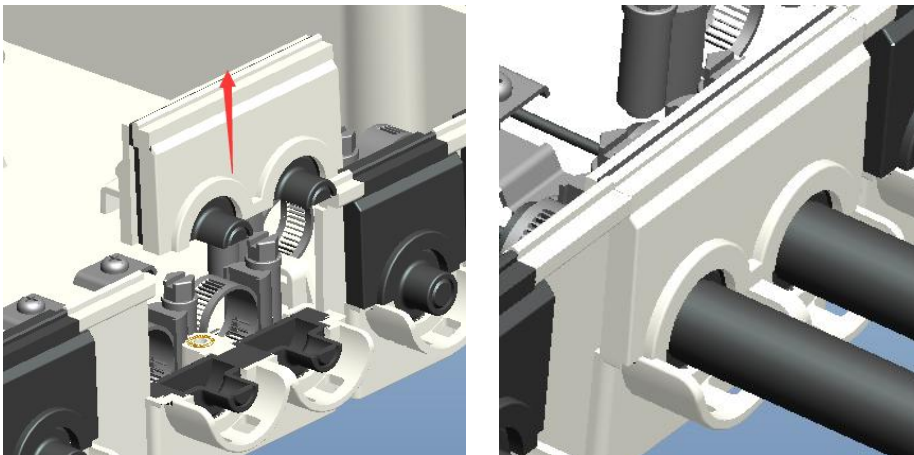


Figure 1

**3.2** Put the main cable on the cable fixed seat, and use the metal hoop to tighten the cable on the cable fixed bracket, and ensure the cable fastening; then screw the screw on the fixed pressure plate with the screwdriver, and put the fiber reinforced core under the reinforced core fixed press plate, and press the screw tightly with the fastening screw. Note: the cable should be slightly higher than the cable fixed pressure plate 5-10mm.

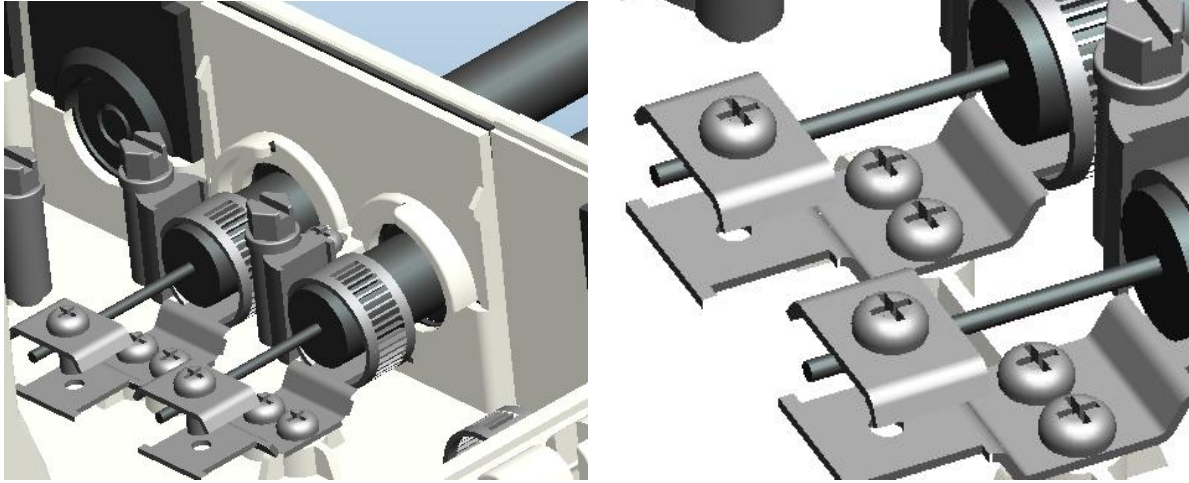


Figure 2

**3.3** The reservation mid-span fiber, coiled in the bottom of the splice tray holder storage area, put the branch fiber into splice tray, and waiting with the pigtail or input branch cable splice.

**3.4** The installation of the branch cable can be fixed with the fixed mode of mid-span cable, fixed the fiber reinforced core and cable, and finally introduced the output fiber into the splice tray and fixed it with nylon tie, waiting for splice with the divergent cable or the input pigtail of the splitter.

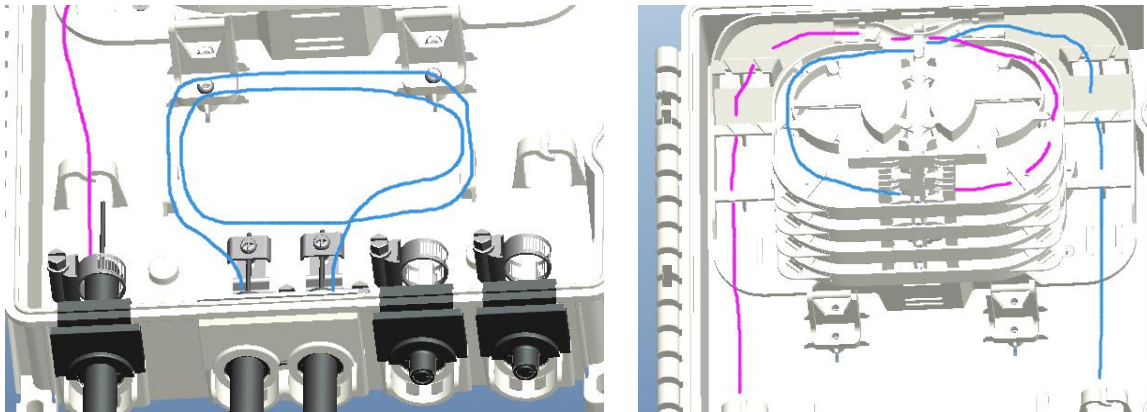


Figure 3

**3.5** If needed installation splitter, the splitter can be fixed in the slot of the splice tray first, and the reserve fiber is coiled in the splice tray, the output pigtail is inserted into the adapter panel, and the input pigtail is introduced into the splice tray, waiting for the next step to splice with the branch fiber. It can also carry out the wiring connection of ordinary cable according to needs. The routing is as follows. See Figure 4.

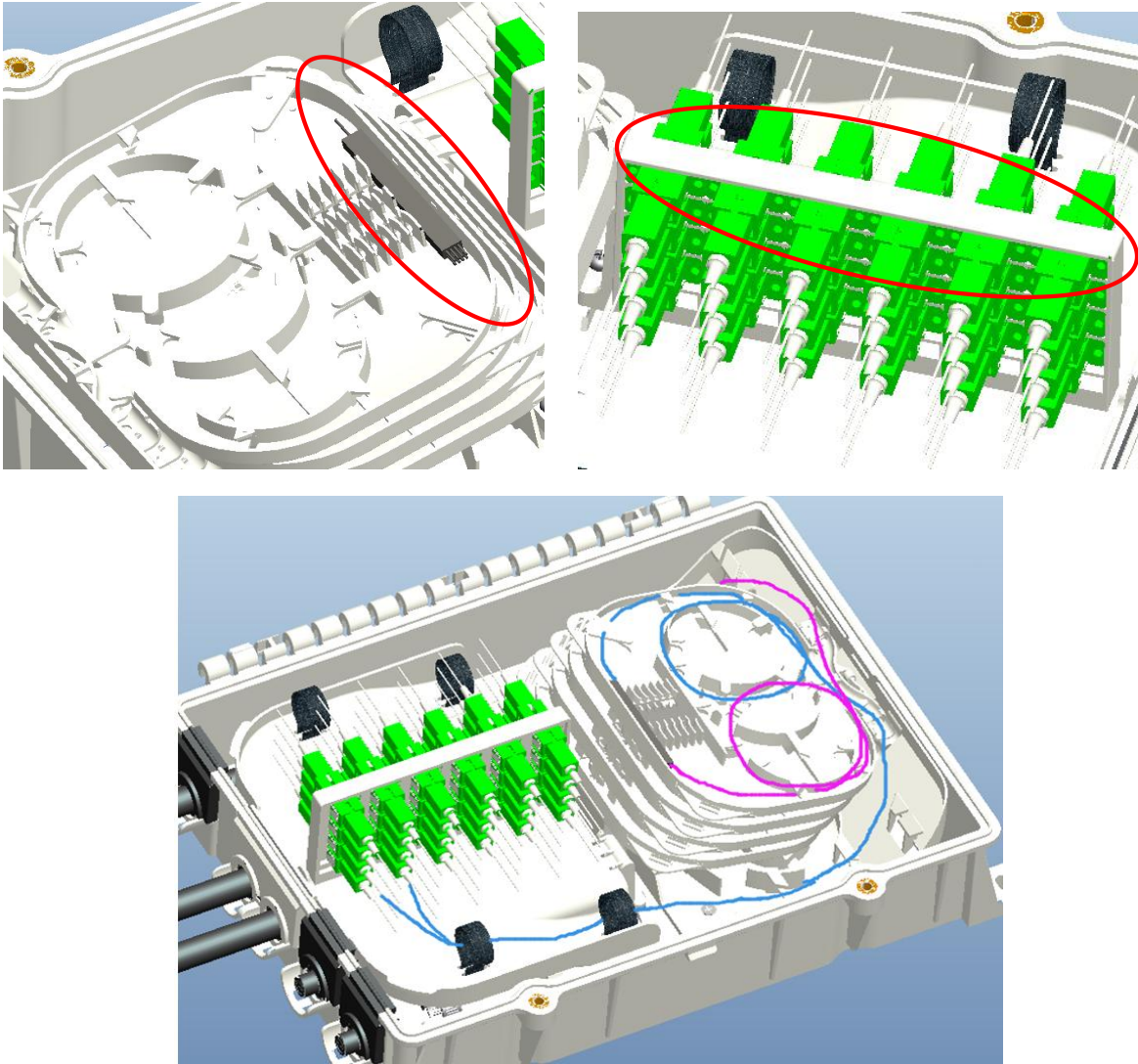


Figure 4

**3.6** Finally, according to the operation requirements of splicing machine, splicing, coiled and fixed on the optical fiber

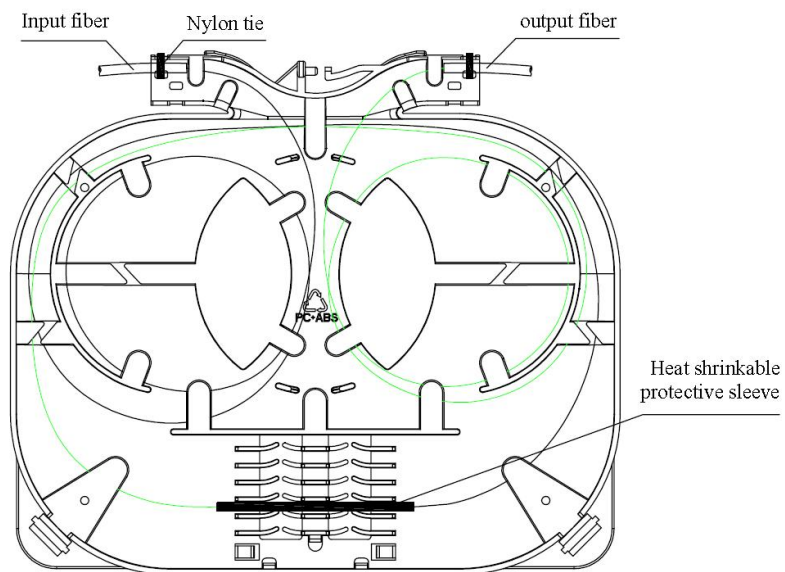


Figure 5

**3.7** After the installation of all optical cables, the fiber route is arranged, the distribution box cover is covered, and the lock is buckled, the whole distribution box can be completed.

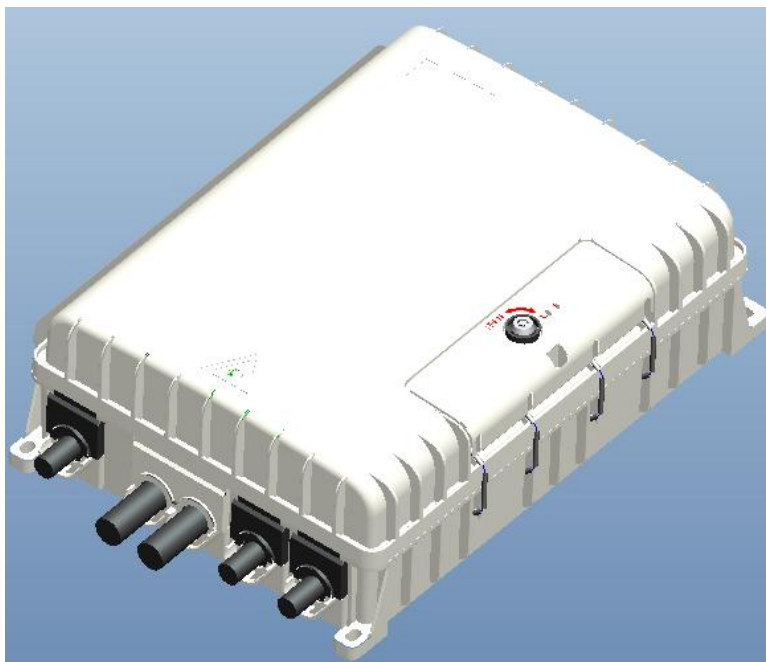


Figure 6

**3.8** Pole mounting: Install pole accessories on the bottom of the box, then use the hose clamp to fix it on the pole. See Figure 7

**3.9** Wall mounting: Use the expansion screws to fix it on the wall. See Figure 8

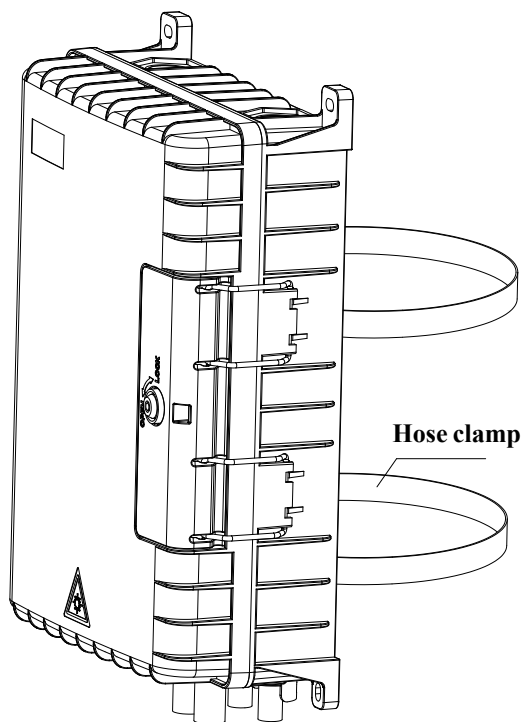


Figure 7

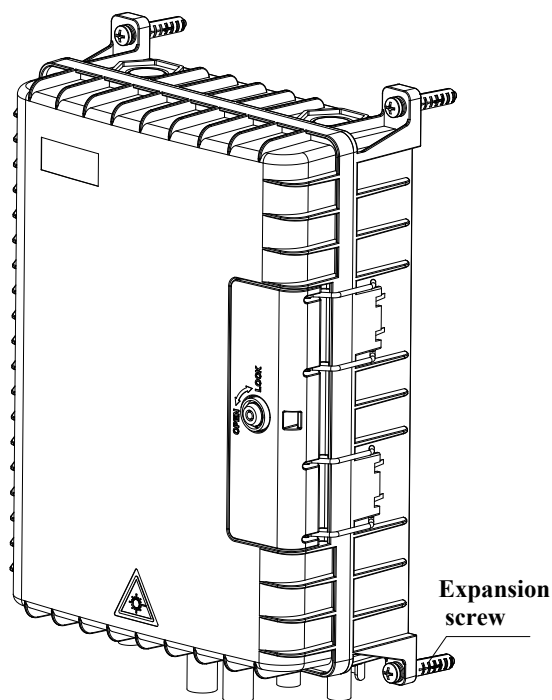


Figure 8

#### 4. List of Accessories

<b>Name</b>	<b>Unit</b>	<b>Quantity</b>	<b>Remark</b>
Heat shrinkable protective sleeve	pcs	Configuration as per capacity	
Nylon tie	pcs	Configuration as per capacity	
Seal tape	pcs	1	
Insulation tape	pcs	1	
buffer tube	m	1	
Expansion screw	pcs	4	
Hose hoops	pcs	2	According to need matching
Installation Manual	pcs	1	