INDOOR BOX 8 PORTS MODEL FAT-8T

Datasheet & Instalattion Guide

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1   Overview

FAT-8T fiber access termination box can hold up to 8 subscribers. It is used as a termination point for the feeder cable to connect with drop cable in FTTx network system. It integrates fiber splicing, splitting, distribution, storage, and cable connection in one solid protection box.

1.1 Application:

- Widely used in FTTH Access network
- Telecommunication Networks
- CATV Networks
- Data Communication Networks
- Local Area Networks

1.2 Advantage:

- Water-proof design with IP-66 Protection level.
- Integrated with splice cassette and cable management rods.
- Manage fibers in a reasonable fiber radius condition.
- Easy to maintain and extend the capacity.
- Fiber bend radius control more than 40mm.
- Suitable for the fusion splice or mechanical splice.

- 1*8 Splitter can be installed as an option.
- Efficient cable management.
- All splicing trays can be extended up to a self-locking position of 120 degrees
- The adapter can be rotated at an angle
- 8 ports cable entrance for distribution cables for option, 2*3mm FTTH Drop Cable, 3mm armored

1.3 Configuration

Material	Size	Max Capacity	Weight	Color
PC +ABS	A*B*C(mm) 235*125*50	SC 8 Ports LC16 Ports PLC 1x8(SC)	0.06kg	Ivory

2 Quick Installation Guide
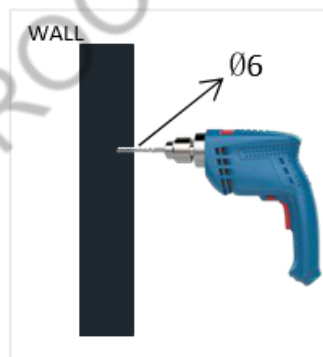
2.1 Installation tolos

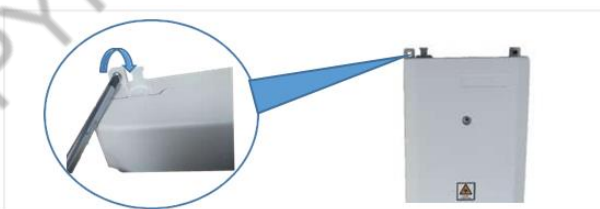|			
Marker	Level	Phillips screwdriver (M3-M6)	Measuring tape (3m)
Hammer drill	Drill bit (⌀6mm)	Diagonal pliers	Protective gloves
Aramid knife	Stripping tool	Splicing tool	Rubber mallet

2.2 Installing the FDB

①Mark the installation position and use a level to make the FDB horizontal

②Drill holes on the wall and hammer the raw plugs into the holes with a rubber mallet.

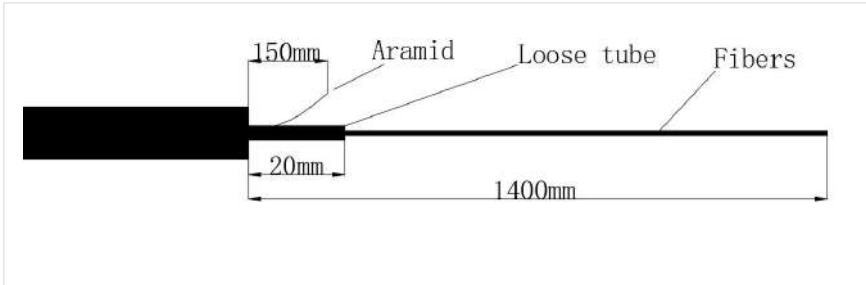③Tighten four tapping screws to secure the FDB to the wall.

2.3 Stripping, Routing, Securing and terminating the distribution cable

2.3.1 Stripping the Distribution Cable

Strip the distribution cable. The recommended striping length is 1400 mm.

2.3.2 Opening the FDB

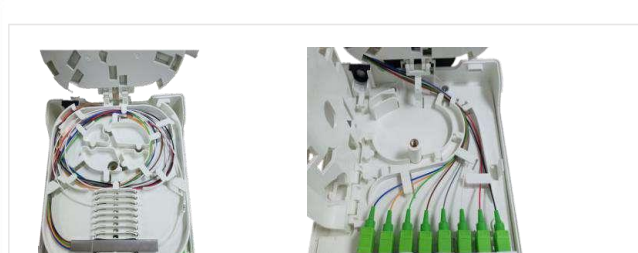① Loose the captive screw.   ② Remove the cover.

③ Loose the captive screw and remove the middle cover

④ Open the splicing tray, splitter tray, and straight-thought tray. Double check that input fiber of the optical splitter is preinstalled into the cable tray.
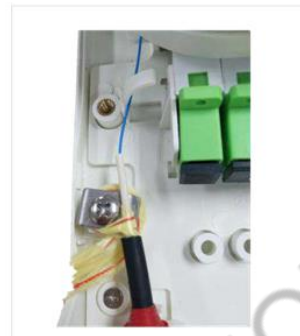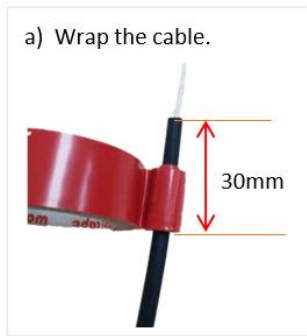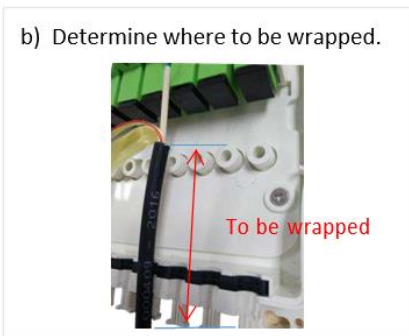

NOTE

Check whether the input fiber of SPL is coiled for one loop inthe base of FDB, and the output fibers of SPL is fastened in the base of FDB.

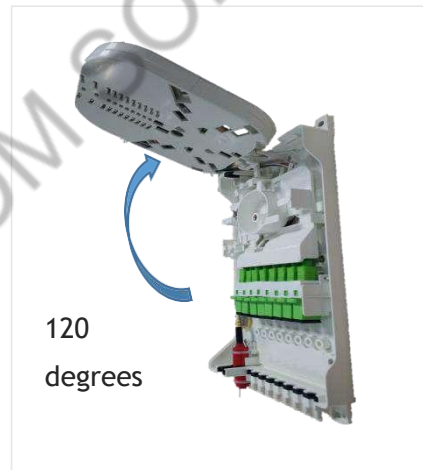### 2.3.3   Routing the distribution cable in from the Bottom

① Wrap the distribution cable with foam tape unit the diameter is 12.5 mm.

② Routing in the distribution cable

b) Determine where to be wrapped.

To be wrapped

a) Wrap the cable.

30mm

③ Secure the cable and the aramid.

④ Unfold all splicing trays upwards to the self-locked positionat 120 degrees
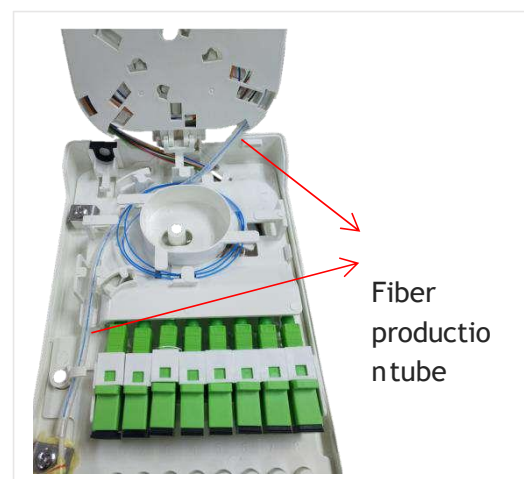

Cable

120

degrees

📖 NOTE

After securing the aramid, place it to the position shown in the right figure.

⑤ Put the bare fiber through a 270mm fiber protection tube, fasten the fiber protection tube at the stripping position of the distribution cable, and lead the fiber protection tube into the splicing tray.
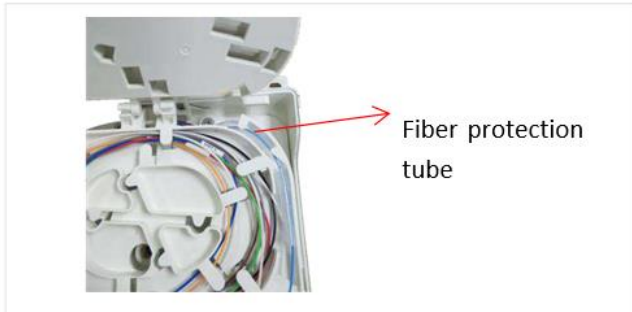

Fiber productio n tube

📖   NOTE

When you lead the fiber protection tube into the splicing tray, reserve 20mm of the fiber protection tube in the splicing tray.
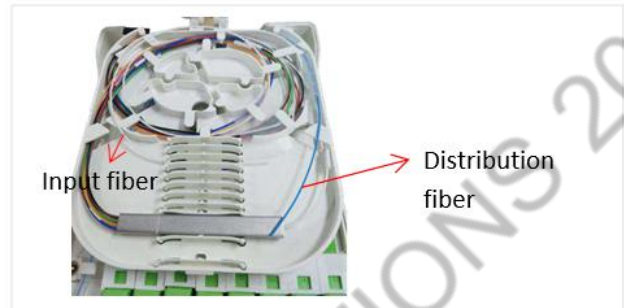
2.3.4   Terminating the Distribution Cable

① Lead in and secure the distribution fibers protected by the fiber protection tube to the splicing tray.

② Pick out an optical fiber for splicing with the input fiber of the optical splitter and coil the rest of the fibers in the splicing tray.

Fiber protection tube

Input fiber

Distribution fiber

③ Strip the optical fiber and input fiber of the optical splitter and splice the optical fiber with the input fiber of the optical splitter. (Highlight that fusion splice is made over fiber at 250 microns.

④ Store the fibers as shown in the following figure.

⑤ Reinstall the middle cover.

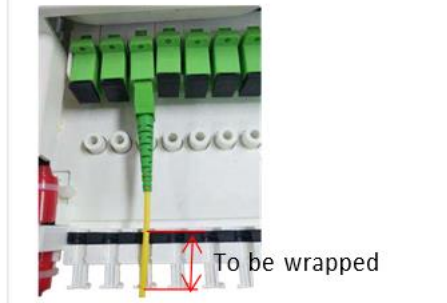Input fiber of the optical splitter

Optical cable
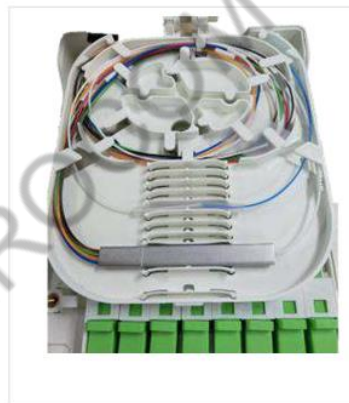
2.3.5 Installing final Steep

① Rotate the adapter.

② If the drop cable is a low friction cable, wrap it with a foam tape unit the diameter is 5mm. Otherwise, skip this step.

b) Determine where to be wrapped

To be wrapped

a) Wrap the Cable.

③ Connect and secure the pre-connectorized cable.

④ Install the cover.