SP- 1604-8s 8 Port Terminal Box

Merocom Solutions.

Instruction Manual

1. Description:

The equipment is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, and distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

2. Features:

1. Total enclosed structure.
2. Material:PC+ABS, wet-proof, water-proof, dust-proof, anti-aging, protection level up to IP65.
3. Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution...etc all in one.
4. Cable, pigtails, and patch cords are running through their own paths without disturbing each other, micro type PLC splitter installation, easy maintenance.
5. Distribution panel can be flipped up, feeder cable can be placed by expression port, easy for maintenance and installation.
6. Box can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor use.

3. Specification:

1. Environmental requirement

Working temperature: -40℃～+85℃

Relative humidity: ≤85% (+30℃)

Atmospheric pressure: 70KPa~106Kpa

2. Main technical datasheet

Insertion loss: ≤0.15dB

UPC return loss: ≥50dB

APC return loss: ≥60dB

3. Thunder-proof technical datasheet

The insulation resistance between the grounding device and the metal parts of the box is no less than $2\square10^4$ MΩ/500V (DC); IR≥$2\square10^4$ MΩ/500V.

The voltage resistance between the grounding device, and the box and its metal parts is no less than 3000V (DC)/min, no puncture, no flashover; U≥3000V
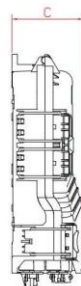
4. Configuration table:

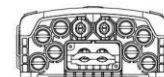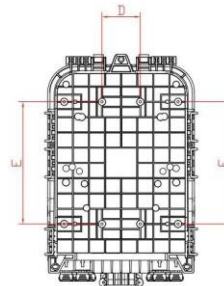**Table 1 Model and configuration**

Model	Size (Pic 1) A*B*C (mm)	Max Capacity	Installation Size (Pic 2) D*E*F(mm)	Into the largest cable diameter (mm)	Maximum size of branch hole (mm)	Waterproof SC/APC adapter
SP-1604-8S	319.3*200*97.5	36	52*166*166	⌀8~14	⌀16	8
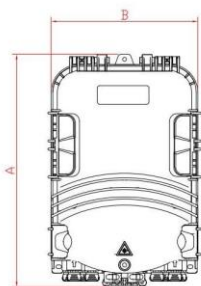
Pic 1 Box Size   **Pic 2 Installation Size**

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5. Product cable ways:

5.1 Product cable ways:

Fiber optic cable diverging ofice   Waterproof SC/APC adapter

Blind for straight-through cable

Splicing tray

Storage for straight through cable

Adapter quard

Front
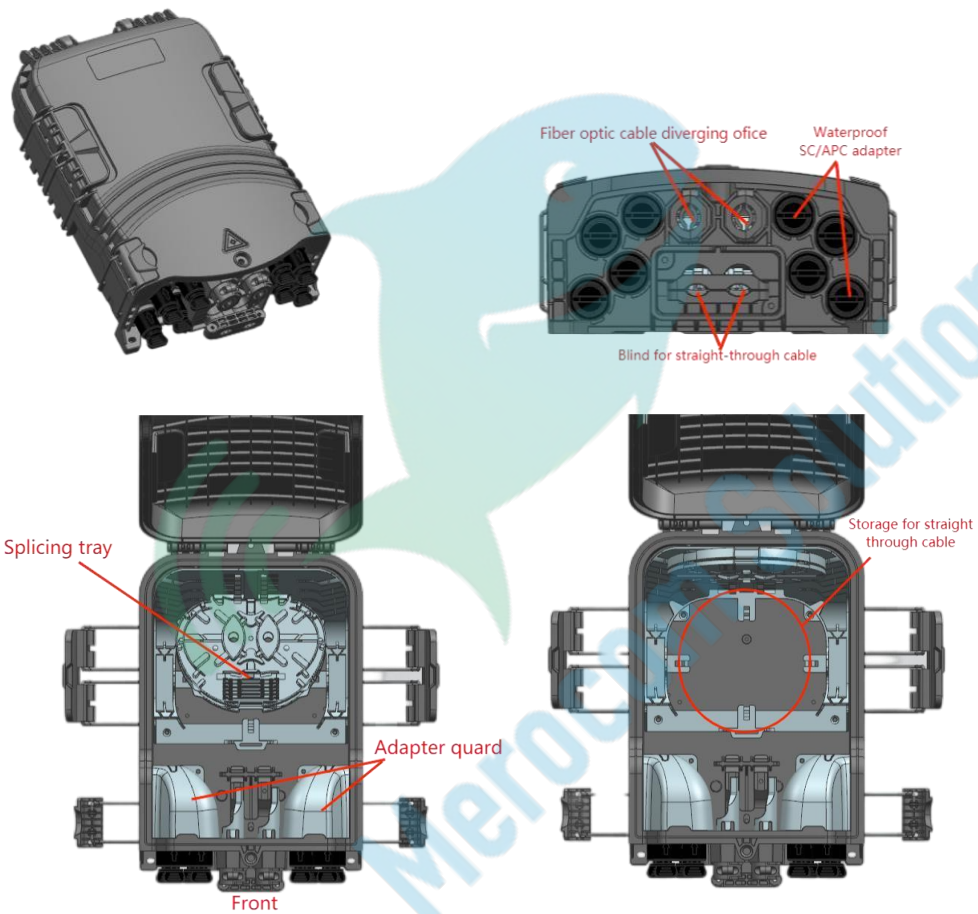
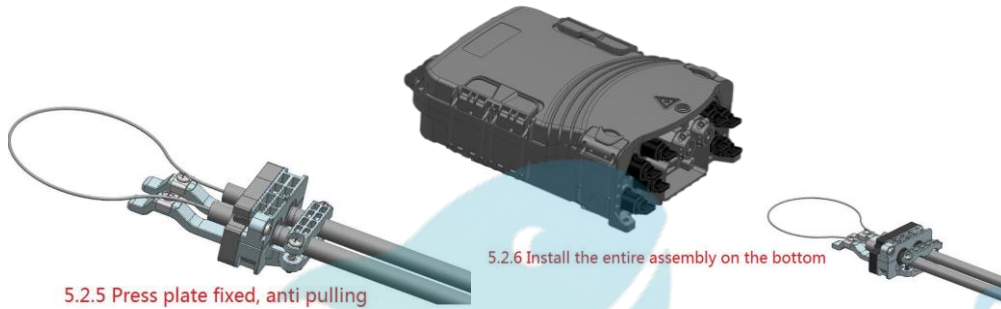### 5.2 Fast Plug

Fast installation, fastening, and sealing of straight-through optical cable with the Fast Plug.

5.2.1 insert the optical cable through cutting

5.2.2 Splitting components

5.2.3 Install the optical cable on the silica gel part

5.2.4 Fastening plastic parts

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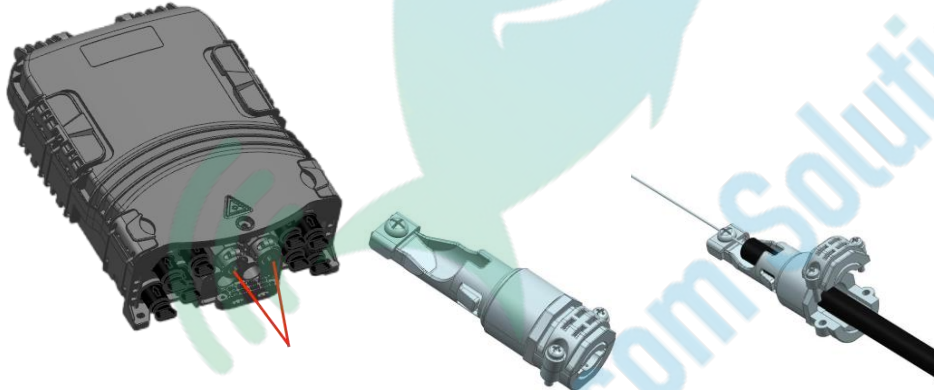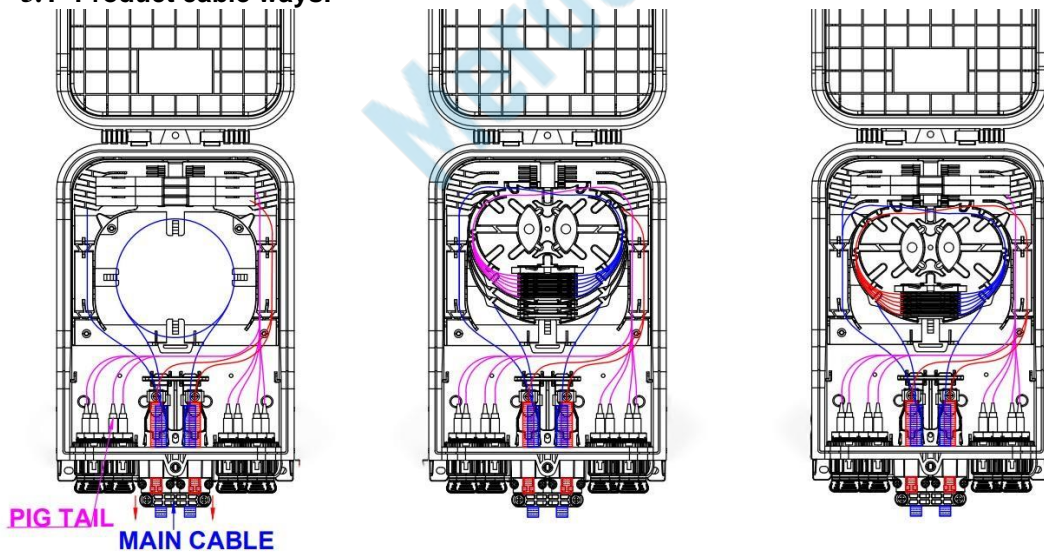5.2.5 Press plate fixed, anti pulling

5.2.6 Install the entire assembly on the bottom
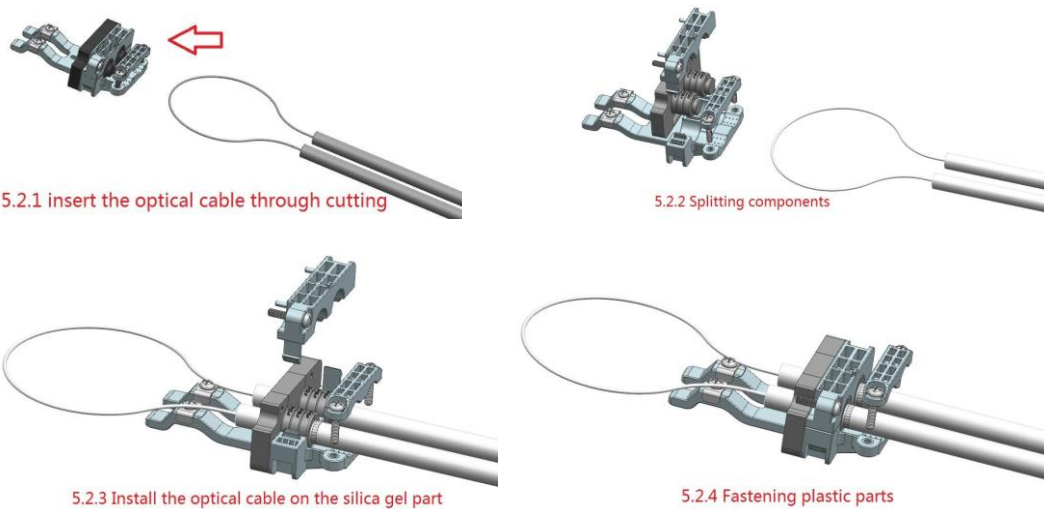
5.3 Fiber optic cable bifurcation

5.4 Product cable ways:

PIG TAIL

MAIN CABLE
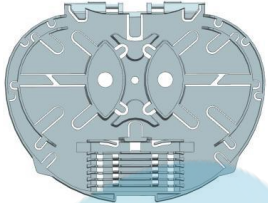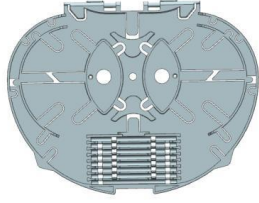
Pic 3   **Cable Ways**

5.5 Splicing tray

Item	Splicing tray A	Splicing tray B
Dimensions(H x W x D; unit: mm)	134*104*8	134*104*4
Net weight (unit: kg)	0.021	0.015

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Picture		
Color	Customizable	Customizable
Material	PC+ABS	PC+ABS
Splicing capacity of a tray(cores)	12, 1 slot for 1/8 PLC	8

6. Installation:

1. Wall-mounted installation

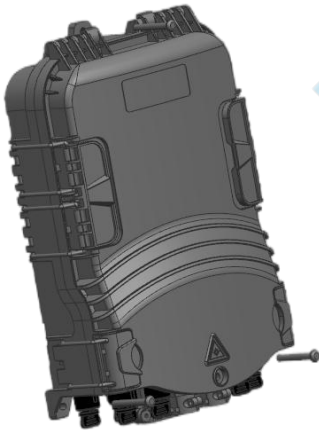   Drill 3 holes into the wall based on the size in table 1, place the expansion bolt Φ7.5*40, place the box to match up the holes and use bolt to fasten(Pic 4).

2. Pole-mounted installation

   Fix 1 set of the pole ring to the telecom pole (Pic 5).
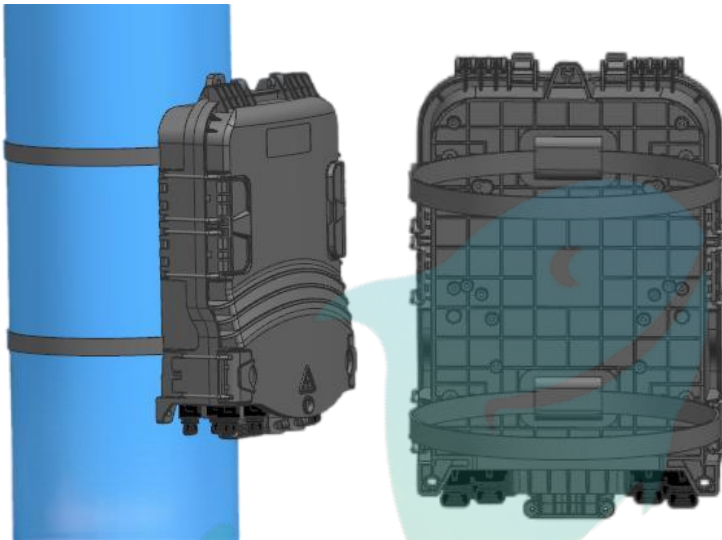
3. The overhead structure

   Tie the two installed on the chassis of the overhead hung on the wire, and then bolted, prevent the case fall off.(Pic 6)

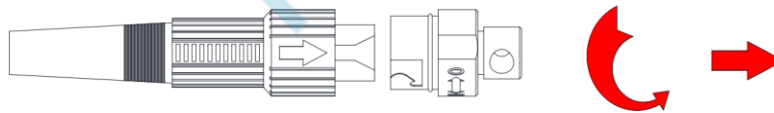**Pic 4 Wall mounted installation**

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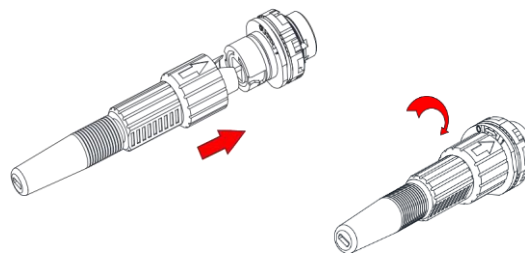

Pic 5 Pole mounted installation

Pic 6 The overhead structure

7. Fiber connector installation:

Pic 7 Rotate the arrow part of fiber connector counterclockwise and take out the dust cap.

Pic 8 The arrow part of fiber connector is above, insert fiber connector into the socket and then rotate the arrow part clockwise.

8. Accessories:

1. Users' Manual*1
2. Accessories Bag*1
3. Pole Ring*2 (Option)