



2. Model SJB-1148 48-port SC Rack-mount Fiber Optic Termination Box

Product Overview

Fiber Optic Termination Box (OTB for short) is a box used to protect optical cables and splice pigtails at the termination of optical cable laying. It is mainly used for the straight-through splice, branch splice and termination fixation of indoor optical cables, and plays the role of pigtail storage and joint protection.

Basic Parameters

Basic Parameter	Specification
Product Name	48-port SC Rack-mount Fiber Optic Termination Box
Product Dimension	430*200*90mm
Product Weight	2.2kg
Material Thickness	0.8mm
Ambient Temperature	-25°C ~ +40°C
Relative Humidity	<=85% (+30°C)
Insulation Resistance	>2×10 ⁴ MΩ
Withstand Voltage	<15KV



Installation and Application

- Installation Method: Rack-mount
- Application Scope: Widely used in urban telephone network systems, rural telephone network systems, data and image transmission systems, and CATV cable TV series
- Notes: The fiber optic termination box is not suitable for outdoor use. If outdoor use is required, protective measures should be taken. Custom specifications are available according to customer requirements.

Product Structure

- The fiber optic termination box consists of three parts: shell, internal components and fiber joint protection parts.
- Shell: The shell should be easy to open and install; it should be equipped with a lead-out device for high-voltage protective grounding of the metal components of the optical cable.
- Internal Components include:
 - A. Support Frame: The main body of the internal structure, used for supporting the internal structure;
 - B. Fiber Collecting Tray: Used for storing fiber joints (and their protection parts) and residual optical fibers in order. The length of residual optical fibers should not be less than 1.6mm, and the bending radius of the coiled residual optical fibers should not be less than 37.5mm. It is also provided with marks for easy identification of fiber numbers and operating space for re-splicing.
 - C. Fixing Device: Used for fixing the optical cable sheath, optical cable strength member and distribution pigtails.

Product Features

- 1. Light weight, high strength, epoxy electrostatic spraying, beautiful appearance and easy to use.

- 2. The splice tray adopts a superimposed structure with flexible configuration, which can be removed to the workbench for splicing, making operation and maintenance convenient and fast.
- 3. Equipped with optical cable fixing device, splice tray and cable clip inside, and with reliable grounding device. It has the functions of optical cable fixation and splicing, plays the role of splicing optical cables, and is used to realize the connection between pigtails and optical cables.

Product Function

The function of the termination box is to connect two sections of optical cables. The termination box is where the end of the optical cable is connected, and then connected to the optical switch through the optical patch cord. Therefore, the termination box is usually installed on a 19-inch rack and can accommodate a large number of optical cable ends.

The function of the joint box is to connect two sections of optical cables. The termination box is used to connect the optical cable with the pigtail for protection. In actual work, the termination box can be used as an indoor joint box, but the joint box is rarely used as a termination box due to different purposes.

Working Environment

- Operating Temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Relative Humidity: $\leq 85\%$ (at $+30^{\circ}\text{C}$)
- Storage Temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Atmospheric Pressure: $70\text{kPa} \sim 106\text{kPa}$

Usage Instructions

1. Pull down the buckle to open the upper cover
2. Reserve the optical cable to be spliced, fix the steel wire inside the optical cable on the front bracket, and fix the optical cable at the cable inlet
3. Strip the reserved optical cable and splice it with the pigtail using a fiber heat shrink tube, then fix it in the fiber splice tray
4. Pull down the buckle again and cover the upper cover

Installation Requirements

1. The installation position, method and height of information modules, multi-user fiber optic termination boxes and collection point distribution modules shall comply with the design requirements.
2. When installed in the raised floor or on the ground, it shall be fixed in the junction box. The information panel can be in vertical, horizontal and other forms. The junction box cover can be opened and shall have waterproof, dustproof and pressure-resistant functions. The surface of the junction box cover shall be flush with the ground.
3. When the base box of the fiber optic termination box is installed with both information modules and power sockets at the same time, the spacing and protective measures taken shall comply with the design requirements.
4. The fixing method of the base of the fiber optic termination box shall be determined according to the specific construction conditions on site, and can be installed by expansion screws, shooting nails and other methods. The fixing method of the surface-mounted base box of the information module shall be determined according to the construction site conditions.
5. The upper cover shall be tightly covered without loosening. The base, information module and panel shall be installed firmly and stably without loosening. The panel shall be kept on a horizontal plane to achieve a beautiful and neat appearance.

6. The fiber optic termination box installed on the wall should be about 300MM above the ground. When raised floor is used on the room ground, the fiber optic termination box should be 300MM away from the surface of the raised floor.
7. All socket panels shall be marked with colors, graphics and text to indicate the service type of the connected terminal equipment.
8. The base box for installing fiber optic connectors and adapters for terminating optical cables in the work area shall have sufficient space and comply with the design requirements.

Packaging Parameters

Product Model	Thickness(mm)	Color	Net Weight per Unit	Units per Carton	Gross Weight of Carton(kg)	Carton Dimension(mm)
48-port SC Rack-mount Termination Box	0.8mm	Black	2.2kg	10	24.1kg	510*440*490mm