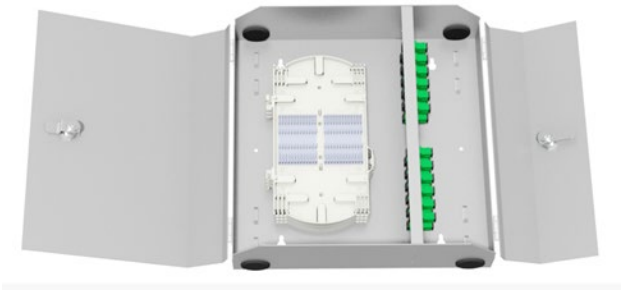
Optical Termination Box

Indoor wall Mount Terminal



The Optical Termination Box (OTB) consists of three sections: the Pigtail and Cable Inlet, the Splice Tray, and the Patch Cord compartment. The Splice Tray is located in one section of the box, while the Patch Cord is situated in another. The layout of the incoming cables should allow easy access for installation, maintenance, and the addition of extra secondary cables.
All components of the OTB should exhibit high-quality design, craftsmanship, and finish.

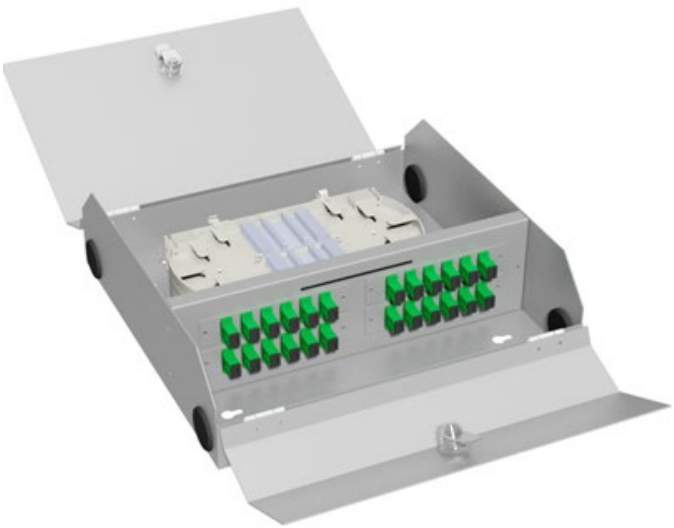
Purpose

- Used for splicing fiber optic cables, connecting fiber optic circuits, and storing excess fiber.

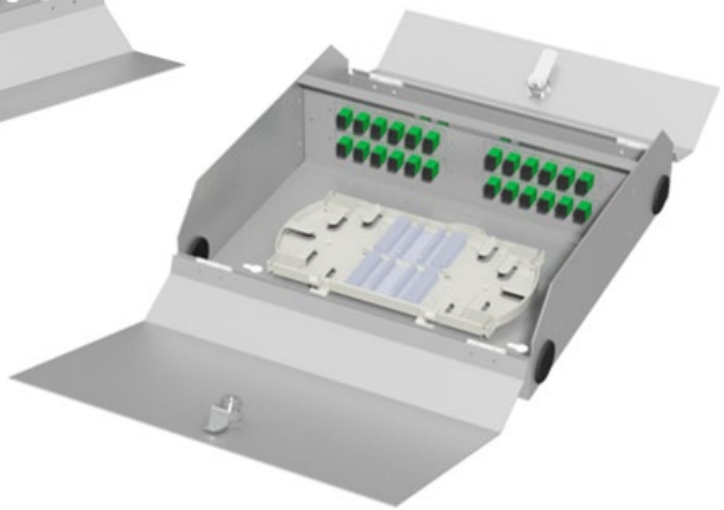
Features

- Efficient Cable Management : Simple and clearly arranged cable management system for ease of use and maintenance.
- Security: Built-in half-turned key lock for enhanced security.
- Spacious Workspace: Sufficient workspace for efficient splicing operations.
- Double-Layer Structure : Double-layer structures provide individual storing areas, enhancing organization and accessibility.
- Versatile Installation Options: Supports various installation conditions, including pole, wall, and building installations.

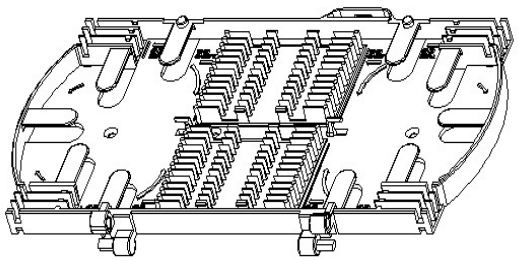
ITEMS	OTB-12/24C	OTB-48C	OTB-72C	OTB-96C	OTB-144C
Dimension(mm/Inch)	320X320X96 12.6X12.6X3.78	400X350X125 15.75X13.78X4.92	500X500X126 19.69X19.69X4.96	650X500X126 25.59X19.69X4.96	650X500X176 25.59X19.69X6.93
Inlet /Outlet Ports	2 / 2	2 / 2	4 / 4	4 / 4	4 / 4
Cable Diameter	Ø22	Ø22	Ø22	Ø22	Ø22
Adapter Mounting	SC	SC	SC	SC	SC
No. of Splice Organizer	1	2	3	4	6
Splice Organizer Capacity	24	48	72	96	144
Number of Adapter / Splice	24	48	72	96	144
Type of Adapter	SC / APC	SC / APC	SC / APC	SC / APC	SC / APC
Outer Box Material	AL	AL	AL	AL	AL
Applications	Wall Mount, Indoor type				



Modeling : 24 C



Splice Tray



- Dimensions (mm) : nominal 230(L)×118(W)×11(H)
- Capacity : up to 24 fibers (for ONLY heat shrinkable sleeve)
  up to 20 fibers (for splitter and heat shrinkable sleeve)
- The splice tray can be installed heat shrinkable sleeve.

Splice Organizer

The splice organizer shall accommodate at least 60cm of spare fiber on either side of the splice. The design of the splice organizer shall ensure that the fiber shall not bent to a radius ≤30mm. The splice protector shall restore the mechanical integrity of the fiber and shall not create any residual forces in the fiber.
The splice protector may be a suitable plastic heat shrinkable material with an internal stainless steel rod for tension relief.

Cable Inlet

There shall be sufficient space at the base of the box to allow access to the cable entrance ports and the incoming cables. OTB shall completely restore the sheath integrity of the cables and provide secure storage for the fiber splices.
A set of cable clamp kit shall be required to secure the outside plant cables to the OTB. Materials used to effects the cable entry seals shall not crack or otherwise adversely affect the cable sheaths. Cable in/outlet points shall be available from top, bottom of the housing.

Test Certification

This section specifies the OTB and its material physical, chemical environmental and mechanical requirements and the tests to be applied for the determination of compliance with these requirements. The materials of the O TB shall be compatible with all cable components and splicing materials.

- **Workmanship**

All components of the OTB shall be high quality design, workmanship, and finish.
All components shall be free of pinholes, cracks, sharp edges or other defects which may detract from the servi ce requirements of the OTB. All metal and plastic welds shall be a high standard of workmanship.

- **Materials**

The components of the OTB and its accessories shall not contain any hazardous or toxic materials. All the components shall be AL with equivalent corrosion resistance. The OTB shall have a robust construction

- **Cable Clamping Test**

After assembling the OTB with cables, no torsion or bending of cables nor cracking of components occurred. On completion of the test the sample shall be subjected to the axial pull out test.

- **Axial Pullout Test**

A load of F=D×500N/45(D: Cable diameter) shall be applied to each cable in the longitudinal axis of the cable for 30 minutes. There shall be no pull-out of cables from the box.

- **Vibration Test.**

The cables connected to the sample shall be rigidly clamped 500mm from the OTB. The box shall be vibrated at a frequency of 10 ~ 55 ~ 10 Hz and an amplitude of 0.7 mm for a period of 1 hour. The cycle takes 10 minutes and vibrates in vertical direction. On completion of the test neither separation, loosening of components nor damage shall be occurred.