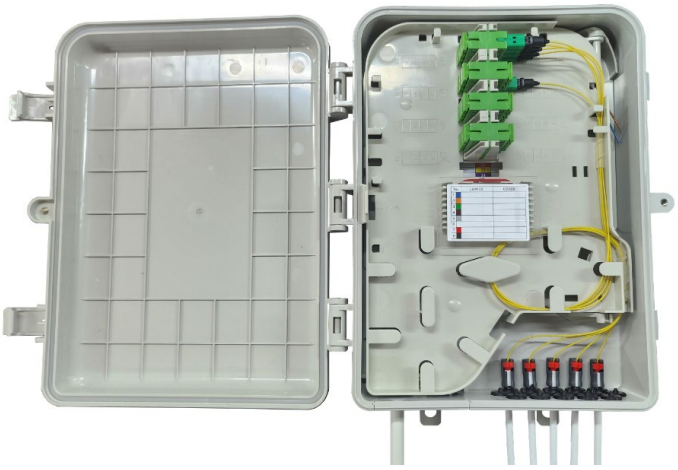
Optical Termination Box

Outdoor Terminal – 16 port

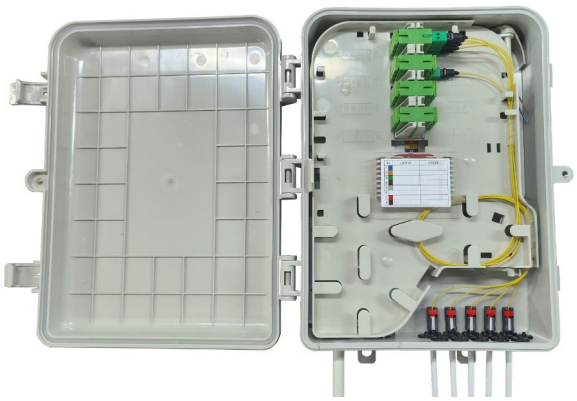


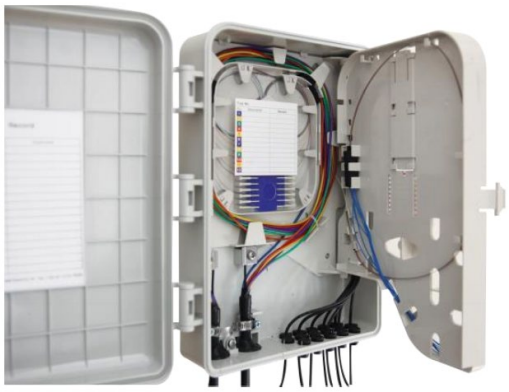
This specification covers the requirements of design and characteristics of optical termination box to be used on fiber optic cable management for installation in customer premises. It is designed for optical cable work and applicable to be connected between distribution cable and subscriber cable into customer premises in the fiber optic network.

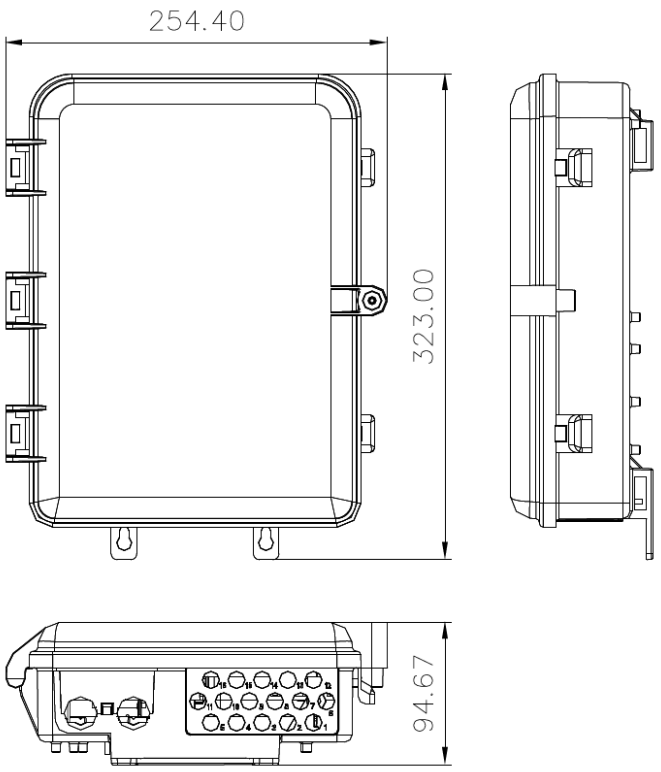
Features

- Splitter is available
- All grommets are made of high-quality hard rubber or silicon and be compatible with chemicals.
- All parts of the optical termination box are of solid and not harmful to human body.
- The optical termination box allows for easy re-entry, splicing, cable assembly and installation.
- The optical termination box has 2 main ports and 16 subscriber's ports enable cables with various diameters to be installed. Unused cable ports shall be closed with dummy plugs.

Item	ODB-16
Dimension[mm]	254.4 x 323.0 x 94.7
Weight[kg]	1.31
Inlet ports	Main 2 / Subscriber 16
Cable (Microduct) Dia.[mm]	Ø16 / Ø3~5
Splice tray	1
Splice capacity	12 (Max.24)
No. of adapter	SC/APC 12(max.16)
Splice protector	Heat-shrinkable sleeve
Pig tail	12(SC/APC-0.9mm-1.0m)
IP Grade	IP 54







Test Procedure

•Mechanical characteristics

Performance	Test Conditions	Requirements
Cable Retention	● Measure optical power at 1550nm ● Check the length deviation of the cable	No greater than 1cm No greater than ±0.2dB
Outdoor Cable Retention	● Measure optical power at 1545.6nm ● Apply load of 5kg for 10seconds ● Check the length deviation of the cable	No greater than 1cm No greater than ±0.2dB
Vibration	● Measure optical power at 1550nm ● Amplitude : 0.35mm (0.75mm) ● Vibration frequency : 10Hz~55Hz~10Hz ● Duration : 20minutes per axis on 3 axis	No mechanical damage No greater than ±0.2dB
Vertical Drop	● Keep the closure at -20±2ºC for 2hours ● Drop the termination box at the height of 1m from the concrete ground within 1 minute	No mechanical damage

•Environmental characteristics

Performance	Test Conditions	Requirements
Temperature Cycling	● Measure the loss after cable connected ● Temperature cycle : -40~60ºC ● 9 cycles (1 cycle is 8-hour interval)	No mechanical damage
Artificial Rainfall	● Spray artificial rainfall to the termination box from the distance 0.5m for 1 hour ● Amount of rainfall : 3.8L/min	No water mark inside the terminati on box
Salt Spray	● Spray 5% NaCl by weight dissolved in distilled water for 96 hours	No rust or corrosion