



TEN-FWB16 - FTTH WALL ENCLOSURE

Installation Guide

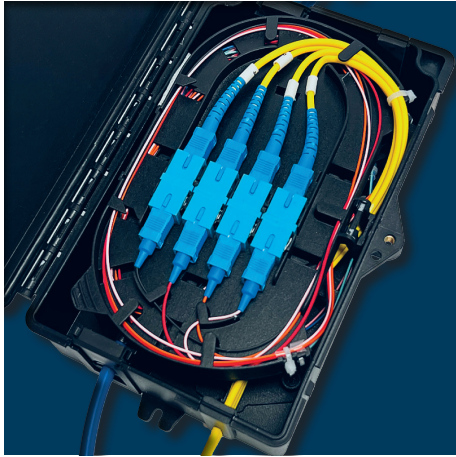
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Getting Started



TEN-FWB16 - FTTH Wall Enclosure

Introduction

The TEN-FWB16 is a compact and versatile enclosure designed for fibre splicing, splitting, and accommodating adapters for customer connections. It features a unique gland for convenient top entry of drop cables and ducts, supporting pass-through cabling. This IP65-rated enclosure offers capacity for up to 20 splices, 4 adapters, and 2 splitters, making it ideal for a wide range of applications. This guide will walk you through all the steps for a successful installation.

Package Contents

Kindly unpack the TEN-FWB16 and confirm that all items are present, as illustrated in Figure 1. Should any items be missing, please promptly contact your local seller for assistance.



Figure 1 - Package contents

- TEN-FWB16 enclosure
- Cable ties
- Splice protectors
- Crimp Protectors
- Fixing wall screws
- Wall fixings

About the TEN-FWB16 FTTH Wall Enclosure

The TEN-FWB16 FTTH Wall Enclosure is a compact and versatile floor distribution solution, perfect for vertical outdoor and indoor cabling applications. This IP65-rated enclosure ensures protection against dust and water ingress, making it suitable for various environments.

It features a hinged lid with secure catches and an optional locking screw for enhanced security. The enclosure supports a 16 mm cable/tube entrance and pass-through, with a new gland design that facilitates easy cable/tube assembly from the top. The baseplate provides effective fibre and retention management, while the hinged tray accommodates up to 20 fusion splices. Additionally, it includes positions for 4 SC or Dual LC adaptors, ensuring robust connectivity options.

Product Specification - General

| | | | |
|-----------------------|-------------------|--------------------|--------|
| Dimension (LxWxH) | 192 x 131 x 50 mm | IP rating | IP65 |
| Material | PC + ABS | Supported adaptors | SC, LC |
| Operating Temperature | -40 - +85 °C | Colour | Black |

Mechanical Layout

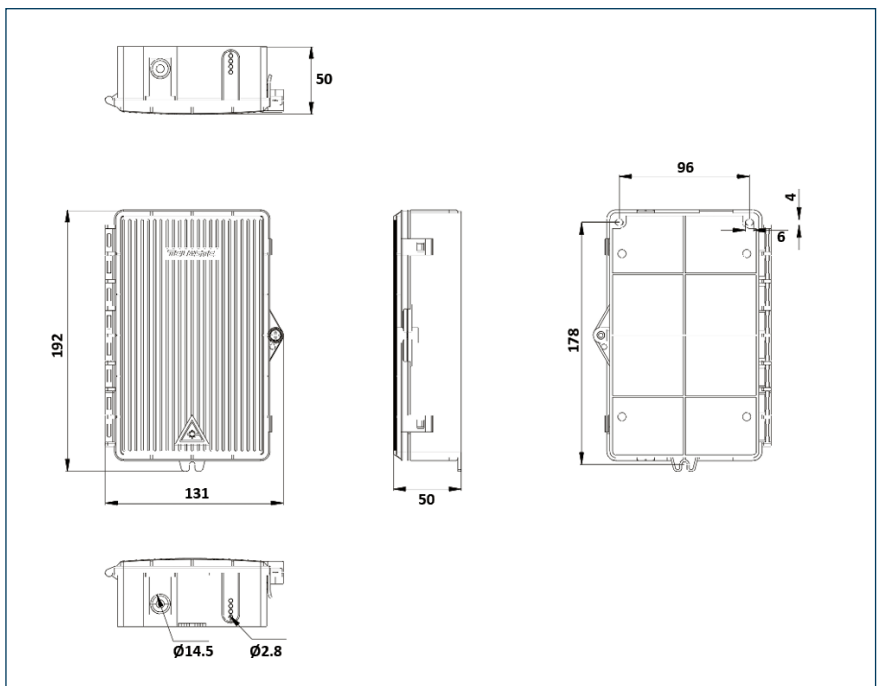


Figure 2 - Mechanical layout

Installation Instructions



Warning! Ensure to follow basic safety precautions to reduce risk of fire, electrical shock, and personal injury.

Thank you for choosing this Teleste product. Please take a moment and carefully read these instructions through before installing the product.

General Preparations and Precautions

1. Check the FTTH Wall Enclosure, cable items and all other components for any damages before installation.
2. Make sure to keep all components dry and clean for the installation.
3. Keep the working environment clean (dry and no dust) and flat for the installation.
4. Standard instruments and tools should be used during the installation.

Installation Guidelines

1. To begin, use an applicable cross screwdriver to turn the anti-theft screw counterclockwise and loosen it from the base of the enclosure. Ensure the screw is completely detached to allow further access to the enclosure's components.



Picture 1



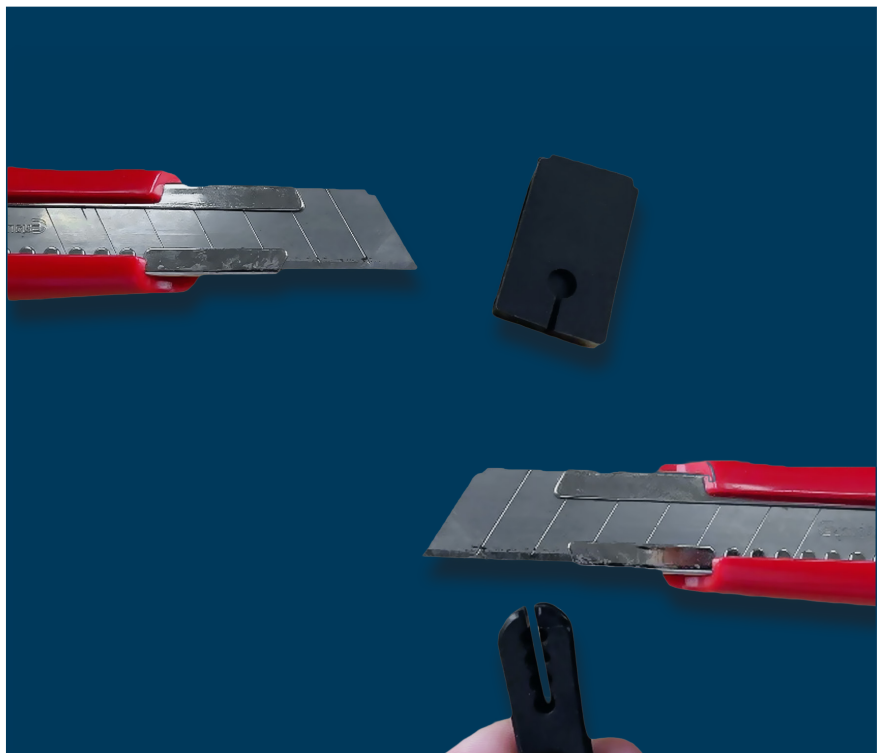
All necessary safety instructions must be followed during the installation and maintenance operations. The safety requirements for class 1M lasers are detailed in EN60825-1.

2. Next, manually release the latches on the box body. Once the latches are released, you can open the upper cover easily.



Picture 2

3. Carefully cut the enclosure's rubber grommets with a utility knife, ensuring you create a clean and precise slit. This will facilitate the insertion of cables or tubes without damaging the grommets, thereby preserving the enclosure's integrity and weatherproofing capabilities.



Picture 3



Warning! Never look directly into the end of a fibre or a fibre connector that may be carrying laser light. Laser light, visible or invisible, can seriously injure eyes or even cause blindness.

4. Thread the incoming cable through the rubber grommet. Secure the cable with a cable tie or a metal worm drive ring, and fix the cable's strength member using the nearby screw. These steps ensure the optical fibre cable is securely anchored within the connection box, maintaining the integrity of the optical connections and protecting the fibres from strain and potential damage. Pictures 4 and 5 illustrate the routing of optical fibers.



Picture 4

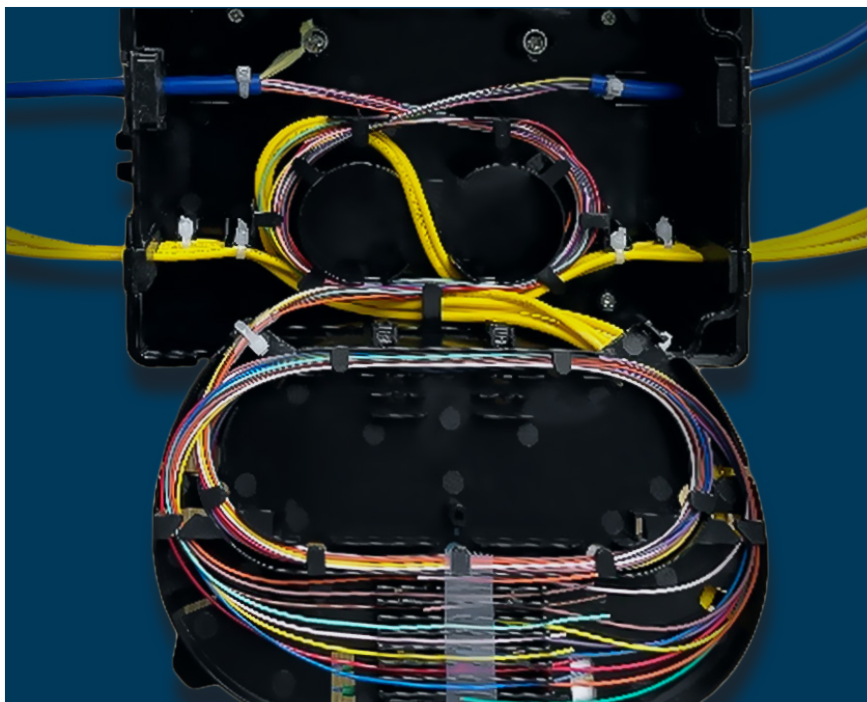


Note! Optical fibres should not be damaged. Cut the damaged fibre, and re-strip the fibre if any damage occurs.



Picture 5

5. An alternative splice scheme is illustrated in Pictures 6 and 7, showcasing an 8 Core split-wire splice. Please refer to the images for a comprehensive understanding of the setup and its configuration.

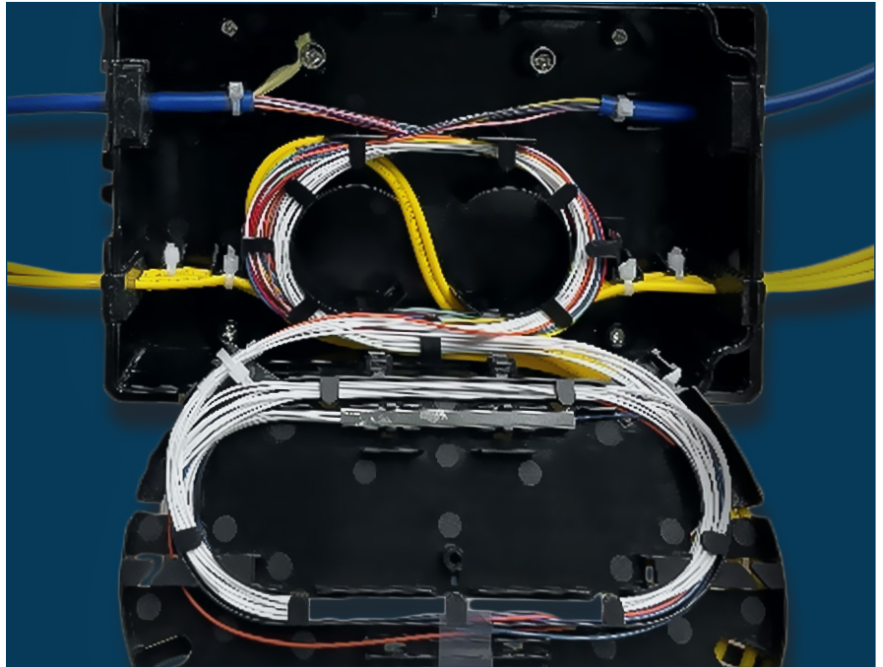


Picture 6

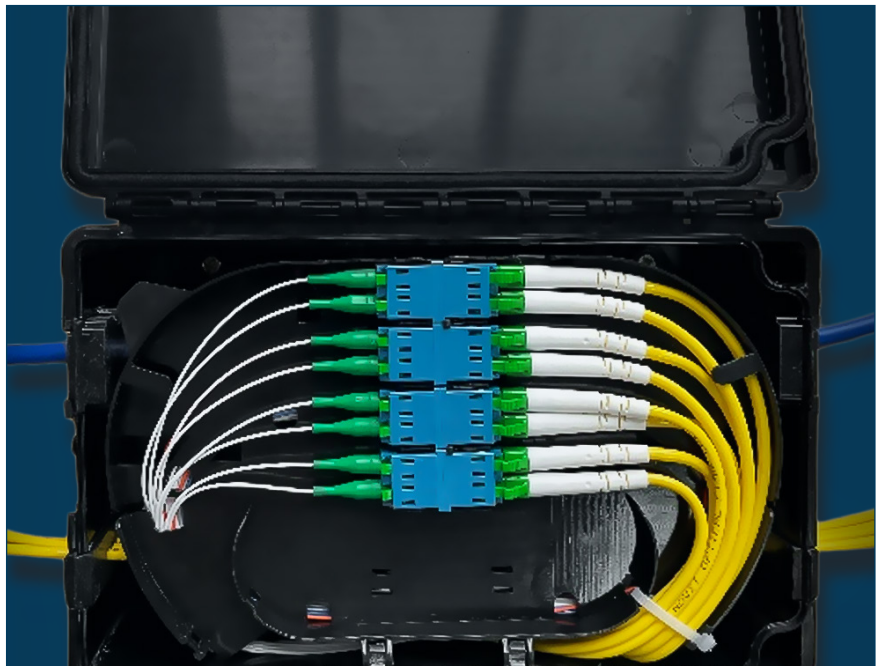


Picture 7

6. Another splice scheme is illustrated in Pictures 8 and 9, featuring a 1/8 PLC splice. For a detailed understanding of the setup and its configuration, please refer to the images. This splice technique is widely adopted for its efficiency in managing multiple connections in fiber optic networks.



Picture 8

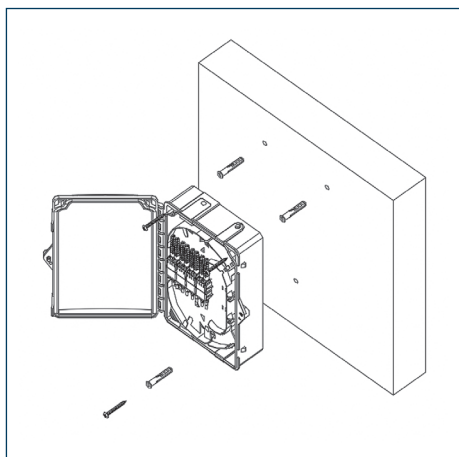


Picture 9

7. Close the lid and use a screwdriver to tighten the anti-theft screw by turning it clockwise. Ensure the box is securely fastened to prevent unauthorized access and maintain the integrity of the optical connections.



Picture 10

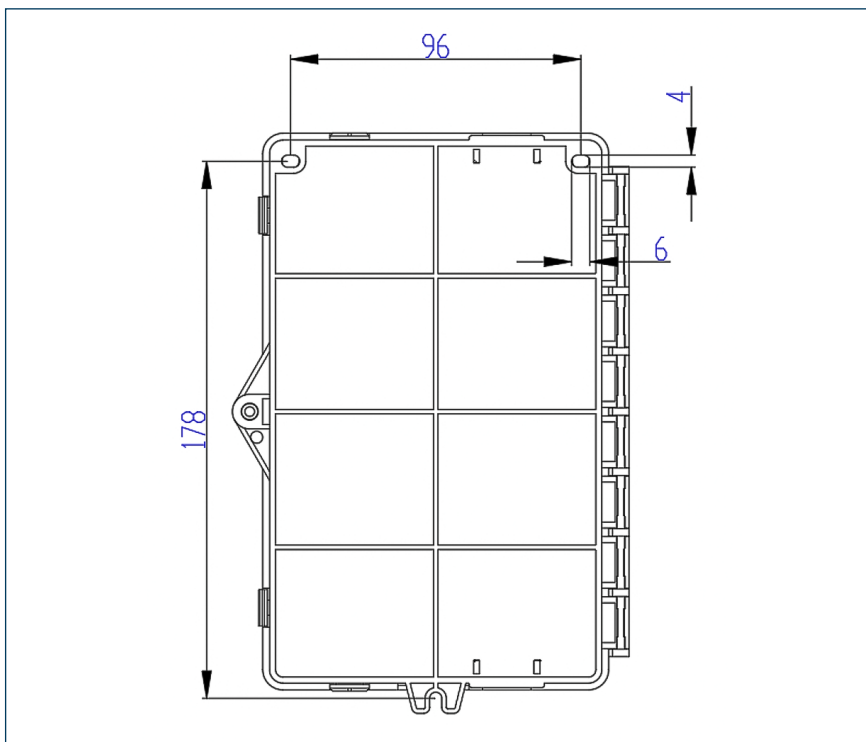


TEN-FWB16 - Wall mounted.

Mounting Guidance

To successfully complete a wall mount installation, follow the guidance steps outlined below. Ensure you have all necessary tools and materials on hand before beginning the process.

1. Drill holes in the wall at the designated locations. Insert the wall fixing plugs into these holes. Position the box so that it aligns perfectly with the drilled holes. For additional visual guidance, please refer to picture 11.
2. Once aligned, secure the box in place by inserting and tightening the self-tapping screws, see image to the left.



Picture 11

Legal Declarations

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