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FTTx SOLUTIONS

TEN-FWO12EB –
CUSTOMER ENTRY ENCLOSURE
Installation Guide

Rev. 1.10/10.2026

TELESTE

Contents

Getting Started

TEN-FWO12EB - Customer Entry Enclosure

Introduction

Thank you for choosing this Teleste product. The TEN-FWO12EB is a Customer Entry Enclosure designed for outdoor fiber termination, enabling individual fibers to be accessed through a window cut in the cable and routed directly to the property for service delivery. With its IP65 rating, the enclosure offers robust protection against dust and water ingress, ensuring reliable performance in outdoor environments.

Package Contents

Kindly unpack the TEN-FWO12EB and confirm that all items are present, as illustrated in Figure 1 and in the following bullet list. Should any items be missing, please promptly contact your local seller for assistance.

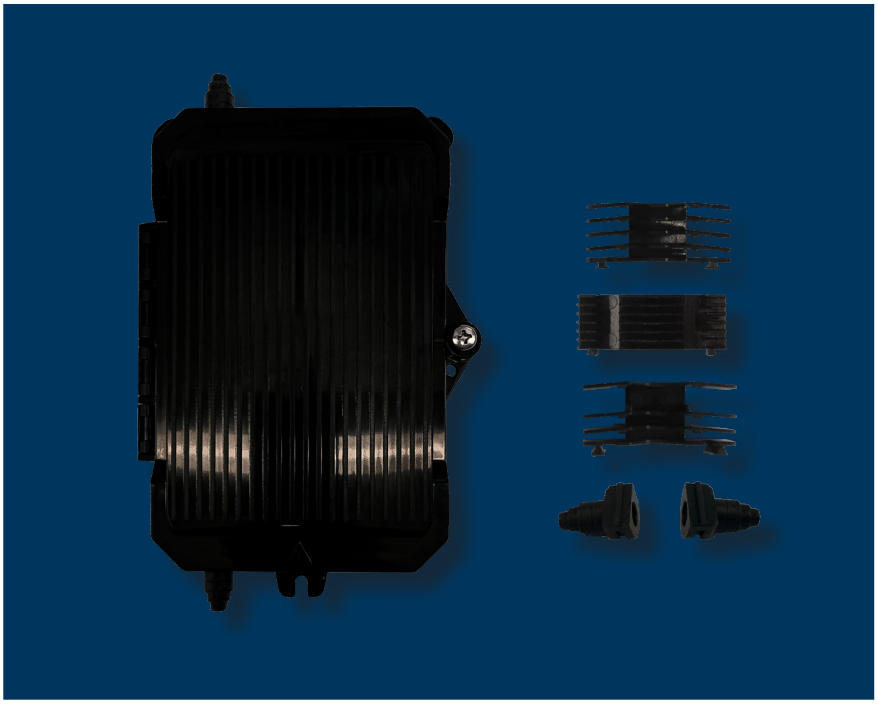


***Figure 1** - Package contents*

- TEN-FWO12EB Enclosure (including Pyramid Gland x 2, Back Entrance Gland x 1, Side Gland x 2, Cable Fixings with Screws x 2)
- Clip-in splice bridge - 12 fusion splices (standard)
- Clip-in splice bridge - 12 crimp splices (standard)
- Clip-in 4mm splitter/6 splices (standard)

Contents not shown in i Figure 1:

- 2 x heat shrink splice protectors (standard)
- 3 x fixing wall screws (standard)
- 3 x wall plugs (standard)
- Foam tape (standard)
- Cable Gland 6 mm (optional)

About the TEN-FWO12EB Customer Entry Enclosure

This Customer Entry Enclosure is expertly engineered for effortless installation and is specifically designed for outdoor mounting applications. It adapts easily to varied installation scenarios, e.g. streamlining fiber deployments in MDUs while maintaining a discreet and durable presence in shared residential spaces. Available in white, grey, and black, its compact form and smooth edges reflect a modern design.

Product Specification - General

Entry Ports	2 ports Φ2-7mm (main) 4 ports Φ2-4mm (drop) 1 port Φ0-9mm (back)	**Number of Splices**	12
Dimension (LxWxH)	155.5 x 106 x 20 mm	**IP Rating**	IP65
Material	Thermoplastic - Halogen-free (LSZH)	**Supported Adaptors**	SC, LC
Material Flammability Rating	HB (UL94)	UV Resistance	UV stabilized
Operating Temperature	-40 - +85 °C	Colour	White (RAL9010), Grey (RAL7035) or Black (RAL9005)

Mechanical Layout

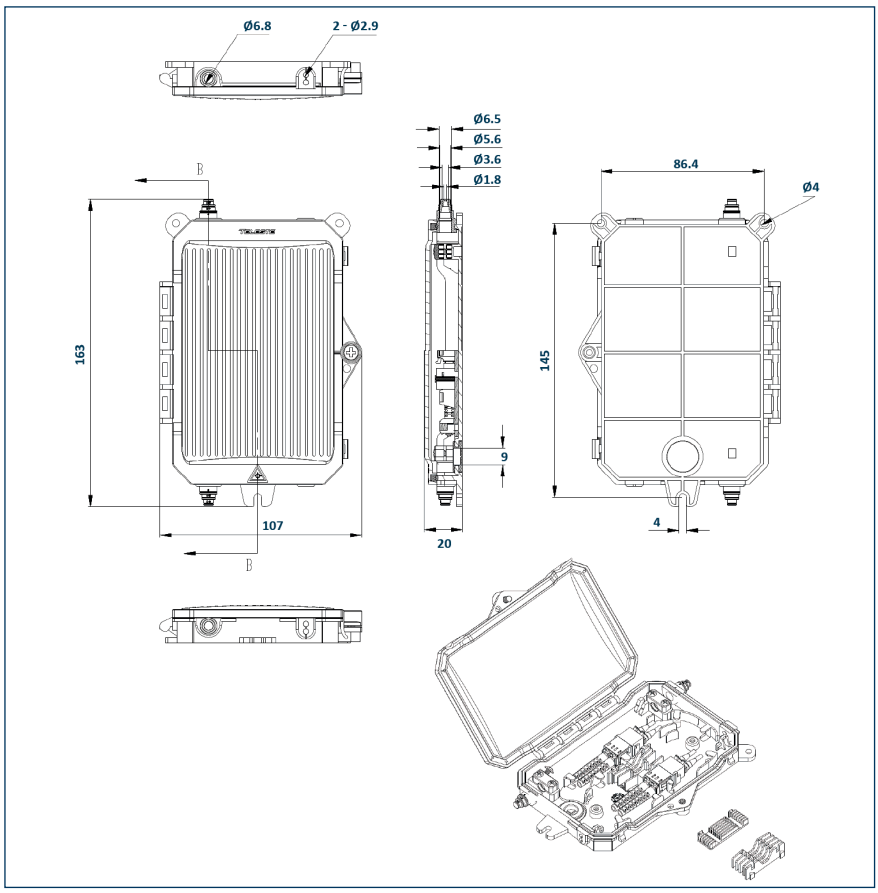


***Figure 2** - Mechanical layout*

Installation Instructions

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

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.

Note! If needed, apply the included foam tape to adjust the diameter of the cable or tube for a more secure hold within the clamp. This may be necessary when the cable or tube is slightly undersized, making it difficult for the clamp to secure it effectively. Wrapping the foam tape evenly increases the outer dimension, allowing the clamp to tighten properly and keep the cable or tube firmly in place.

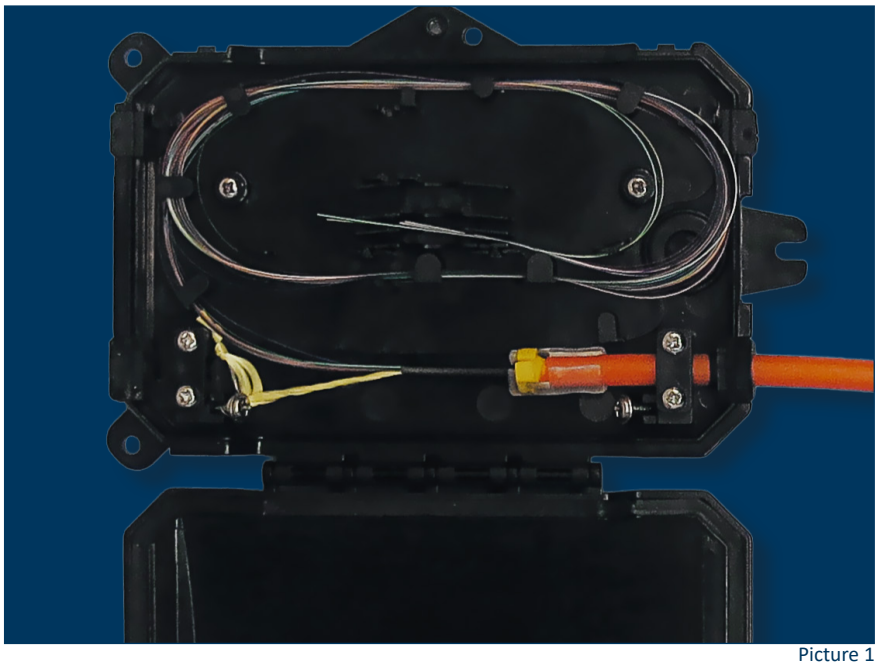
Thank you for choosing this Teleste product. We appreciate your trust in our brand. Before starting the installation, please take a moment to carefully review these instructions. Understanding the guidelines beforehand will help ensure a smooth and successful setup. In the sections that follow, you'll find step-by-step guidance for carrying out a *Patch and Splice installation*, a *Back Port installation*, and a *Repair Splice installation*.

General Preparations and Precautions

1. Check the Customer Entry 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. It's essential to use standard instruments and tools during installation. This practice minimizes the risk of damage and guarantees long-term performance.

Guidelines – Patch and Splice installation

1. Start by opening the enclosure and loosening the screws securing the cable clamp and the cable strength member. Prepare your setup: Insert the incoming cable or tube through the gasket. Then, tighten the cable clamp to securely fasten the tube or cable. Insert the cable strain relief bolt and tighten it to secure the cable.



Picture 1

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

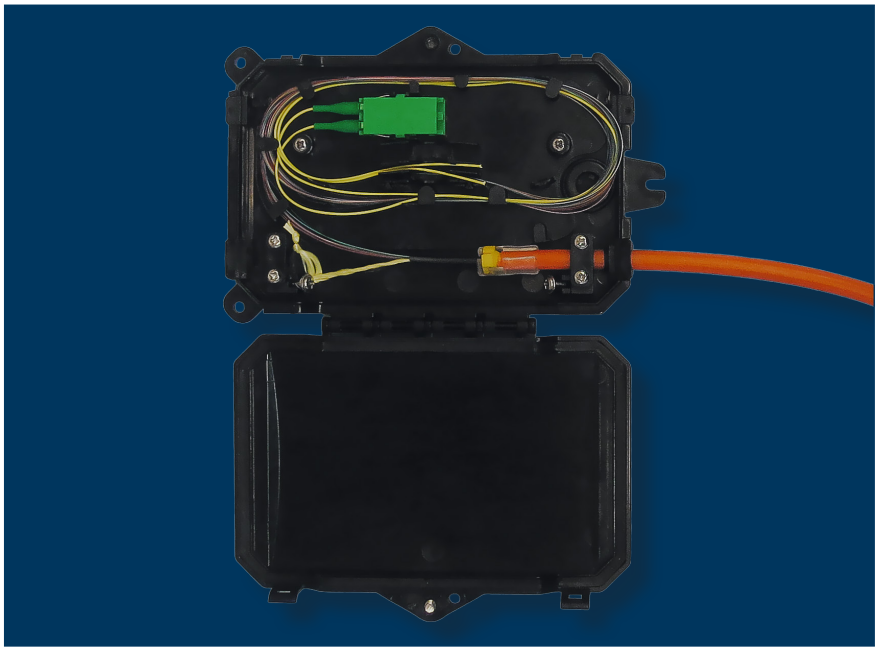
Note: Always clean optical adapters and connector end faces as part of the enclosure installation; this is crucial for maintaining optimal network performance. Contaminants like dust and oils can obstruct light transmission, leading to significant signal loss and degraded performance. A clean connection ensures consistent performance and network integrity. Be sure to follow proper cleaning techniques and inspect connectors and adapters before installation.

Note! A recommended approach is to store unused fibers in a splice protection sleeve, as shown in Picture 3. This method keeps everything organized—no loose ends in the box, making it quicker and easier for the next installer to identify and access available fibers.

2. Begin by routing the fiber around the tray's fiber guides, adjusting the length as necessary. Once the fiber reaches the splice location, cut it to the appropriate length.

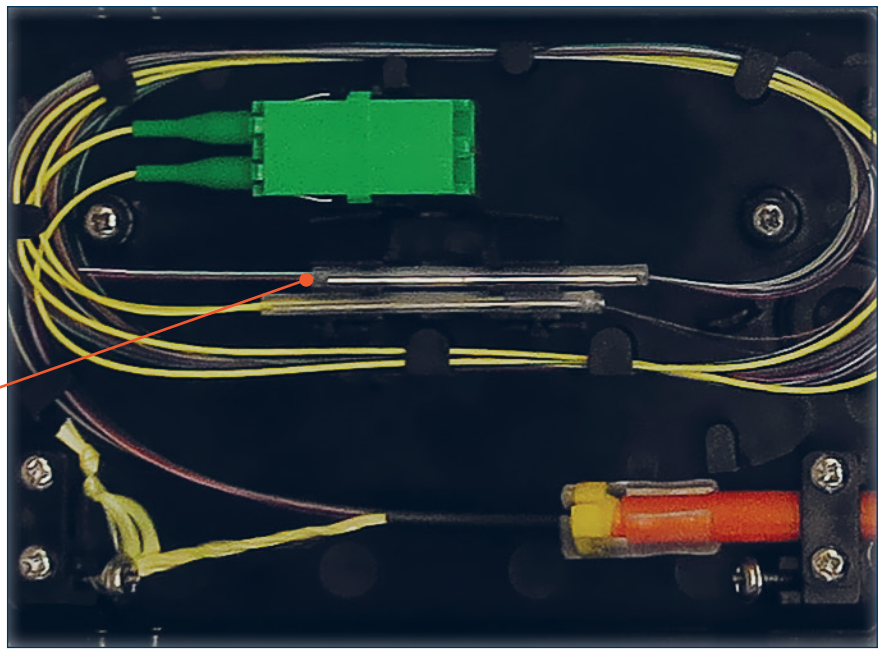
3. Install the optical adapter into the enclosure and make sure it is securely seated in its designated position.

4. Insert the pigtails into the adapters, then route them to the desired length for splicing with the incoming cable, adjusting the length as necessary.



Picture 2

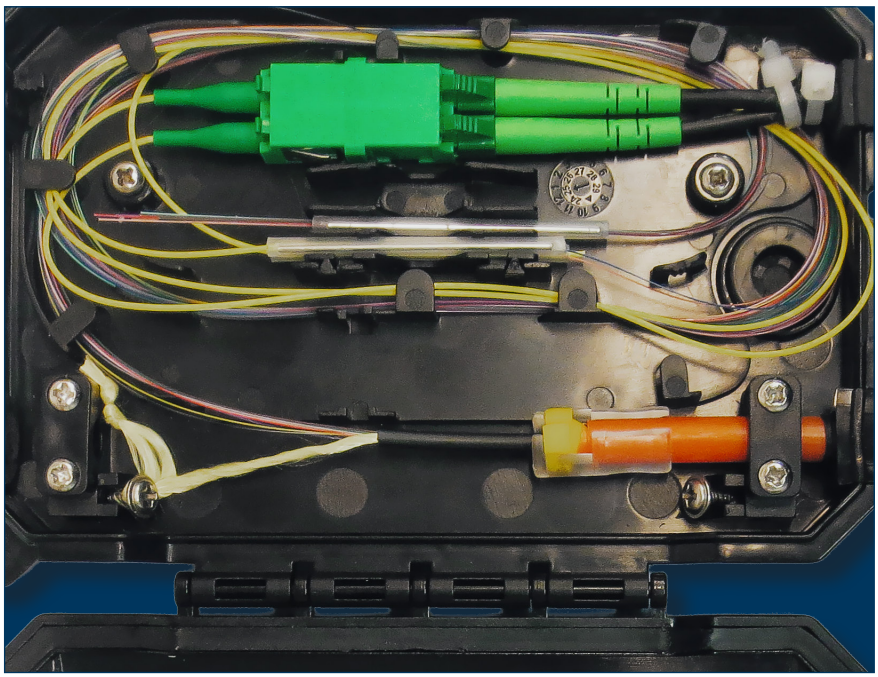
5. Splice the fibers, then insert the spliced fibers into their designated splice bridge slots, ensuring they are properly seated. See Picture 3.



Picture 3

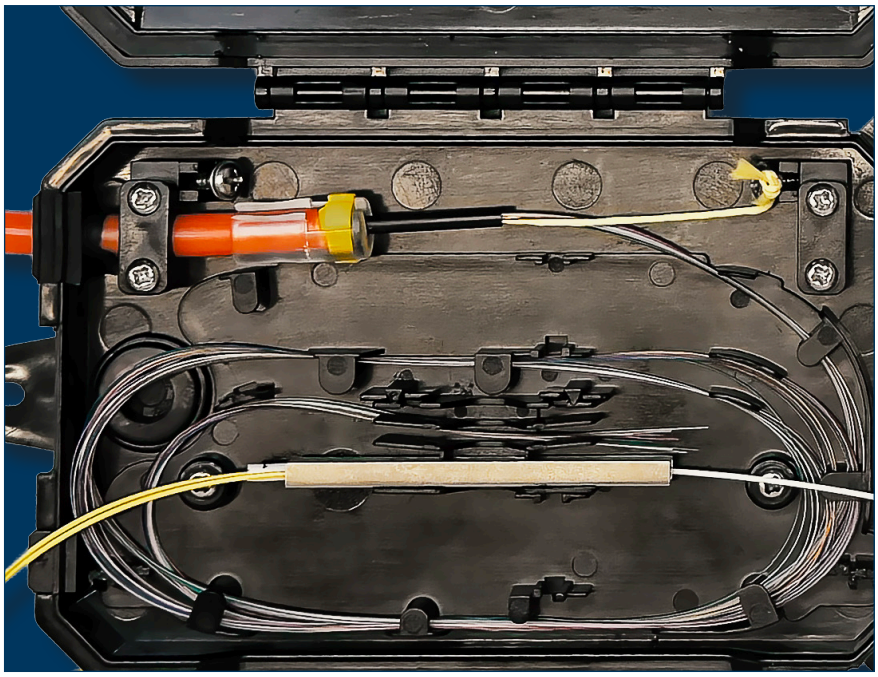
Warning! Never look directly into the end of a fibre or a fibre connector that may be carrying laser light. Laser light, visible or invisible, can seriously injure eyes or even cause blindness.

6. Next, cut the drop cable gasket using industrial-grade scissors, then install the drop cable(s) into the adapter. Route the cable to the desired exit port, and remember to clean the connector to ensure optimal performance. Note: If only one cable is being used, cut only one cable entry to maintain sealing integrity.



Picture 4

7. If your installation requires a splitter, refer to picture 5. Route the splitter legs and cut them to appropriate lengths for splicing with outgoing drop cables. Adjust lengths as needed. For connectorised splitters, insert connectors into the adapters. Splice the incoming cable to the splitter input leg if applicable.



Picture 5

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.

8. Finally, secure the cable using a zip tie to prevent movement and strain on the connector. This step secures the cable in place and provides protection against external interference and handling during maintenance. See Picture 4 on the previous page (top right corner).

9. Once the lid is closed and the lock screw is securely tightened, the installation is complete.

Picture 6

Guidelines – Back Port installation

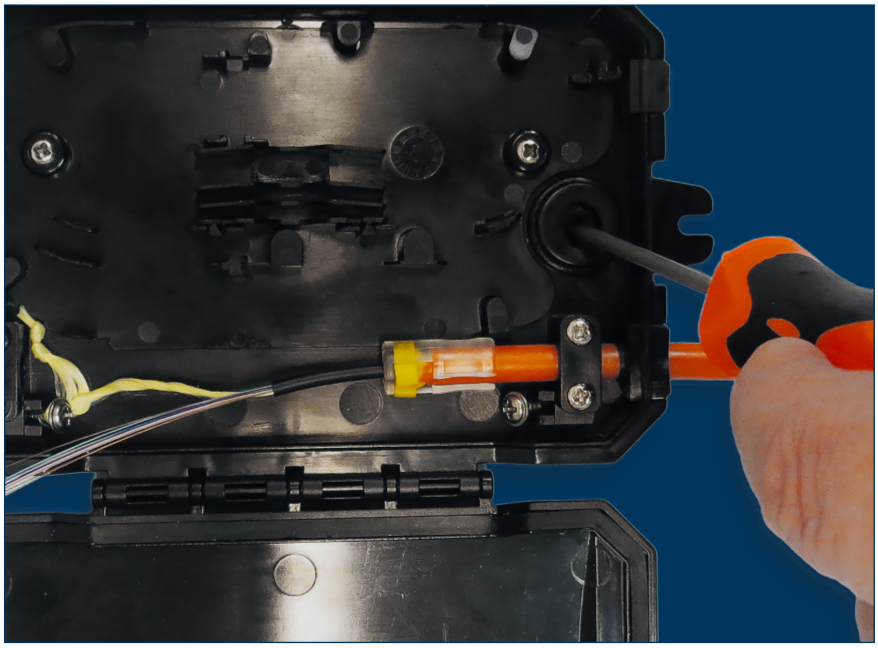
Note! Optical fibres should not be damaged. Cut the damaged fibre, and re-strip the fibre if any damage occurs.

Note! If needed, apply the included foam tape to adjust the diameter of the cable or tube for a more secure hold within the clamp. This may be necessary when the cable or tube is slightly undersized, making it difficult for the clamp to secure it effectively. Wrapping the foam tape evenly increases the outer dimension, allowing the clamp to tighten properly and keep the cable or tube firmly in place.

1. Start by opening the enclosure and loosening the screws securing the cable clamp and the cable strength member. Prepare your setup: Insert the incoming cable or tube through the gasket. Then, tighten the cable clamp to securely fasten the tube or cable. Insert the cable strain relief bolt and tighten it to secure the cable.

Picture 7

2. Next, create an opening in the back port by gently applying pressure with a screwdriver at the marked area.



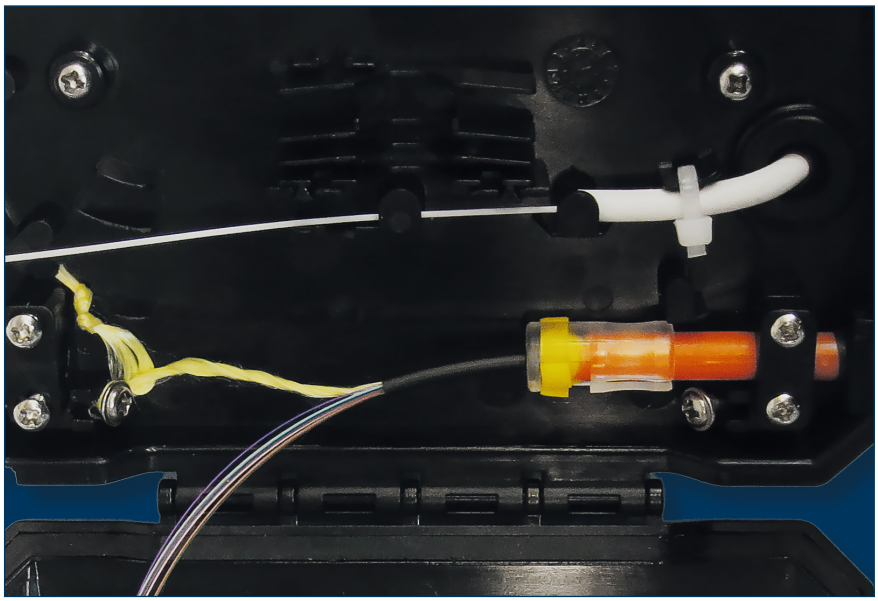
Picture 8

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.

3. Prepare the back port cable by carefully removing the outer sheath. Ensure that the cable is clean and undamaged before proceeding to insertion.

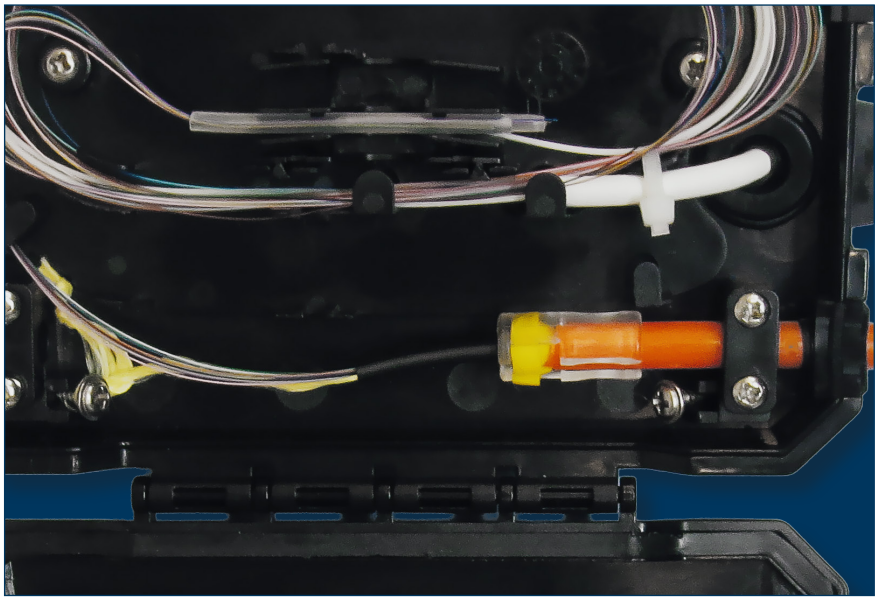
4. Carefully insert the cable through the gasket at the back port, ensuring proper alignment to maintain sealing performance.

5. Secure the cable using a zip tie to prevent movement and minimize strain on the installation.



Picture 9

6. Route the fiber around the tray's fiber guides, adjusting the length as necessary. Once the fiber reaches the splice location, cut it to the appropriate length. Then splice the fibers and insert them into their designated slots in the splice bridge. Finally, close and tighten the lid to complete the back port installation.



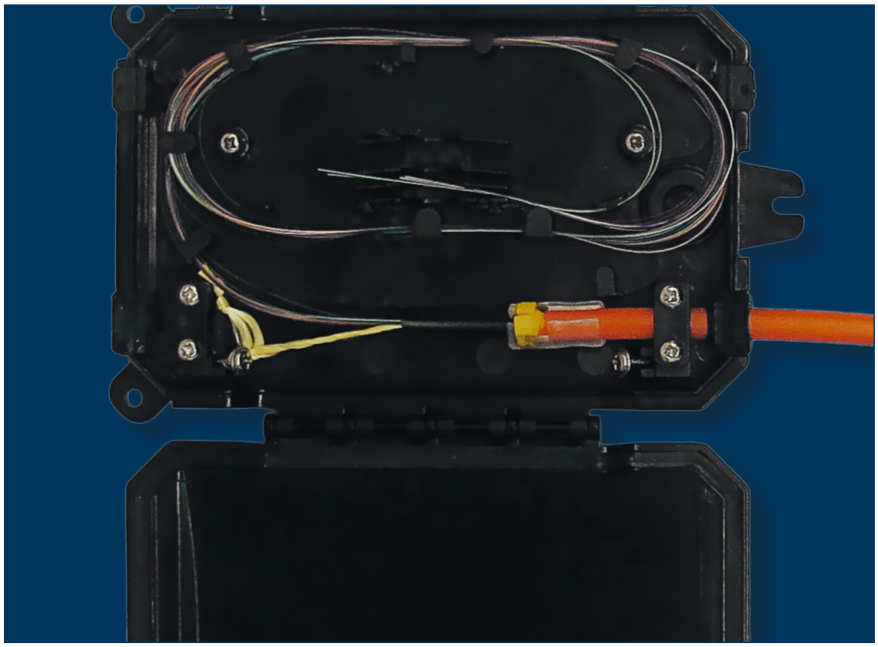
Picture 10

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

Note! If needed, apply the included foam tape to adjust the diameter of the cable or tube for a more secure hold within the clamp. This may be necessary when the cable or tube is slightly undersized, making it difficult for the clamp to secure it effectively. Wrapping the foam tape evenly increases the outer dimension, allowing the clamp to tighten properly and keep the cable or tube firmly in place.

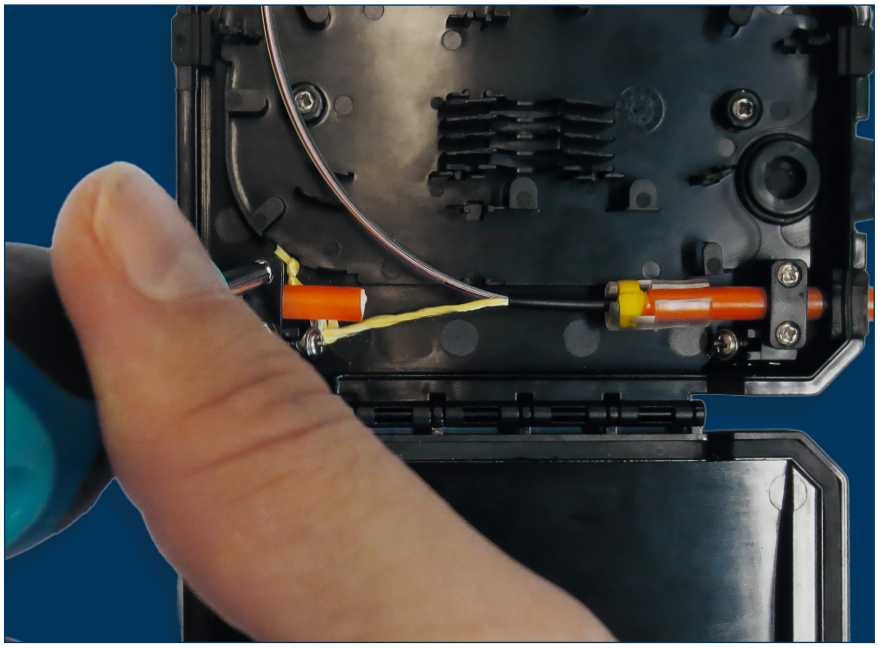
Guidelines – Repair Splice installation (up to 12F)

1. Start by opening the enclosure and loosening the screws securing the cable clamp and the cable strength member. Prepare your setup: Insert the incoming cable or tube from the right side through the gasket Then, tighten the cable clamp to securely fasten the tube or cable. Insert the cable strain relief bolt and tighten it to secure the cable.



Picture 11

2. Insert the incoming cable or tube from the left side through the gasket Then, tighten the cable clamp.

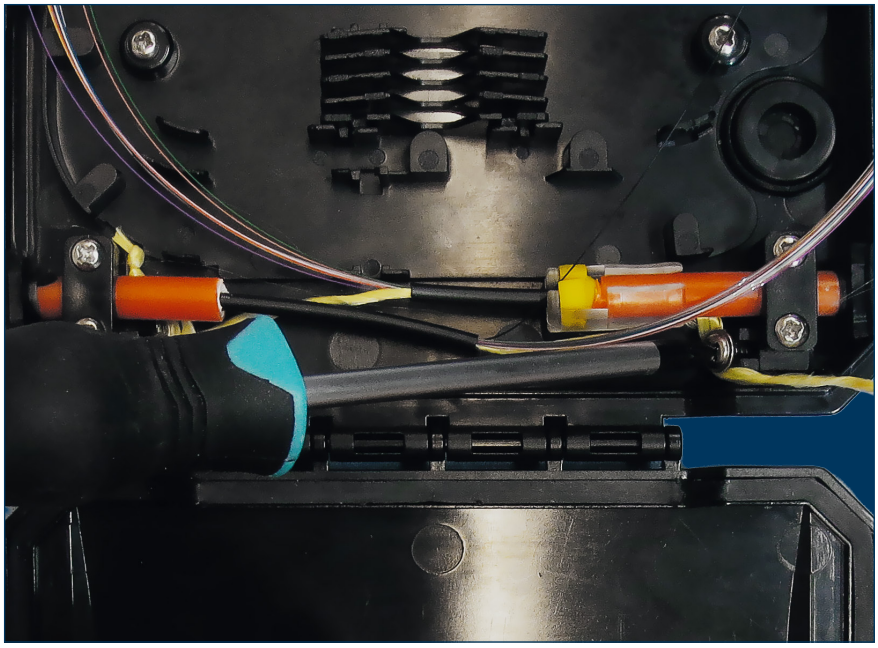


Picture 12

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.

3. Next, prepare the left-side cable (see Picture 13). Then organize the cable's strength member, insert the cable strain relief bolt, and tighten it to secure the cable (see Picture 14).

Picture 13



Picture 14

4. Route the fiber around the tray's fiber guides, adjusting the length as necessary. Once the fiber reaches the splice location, cut it to the appropriate length (see Picture 15).

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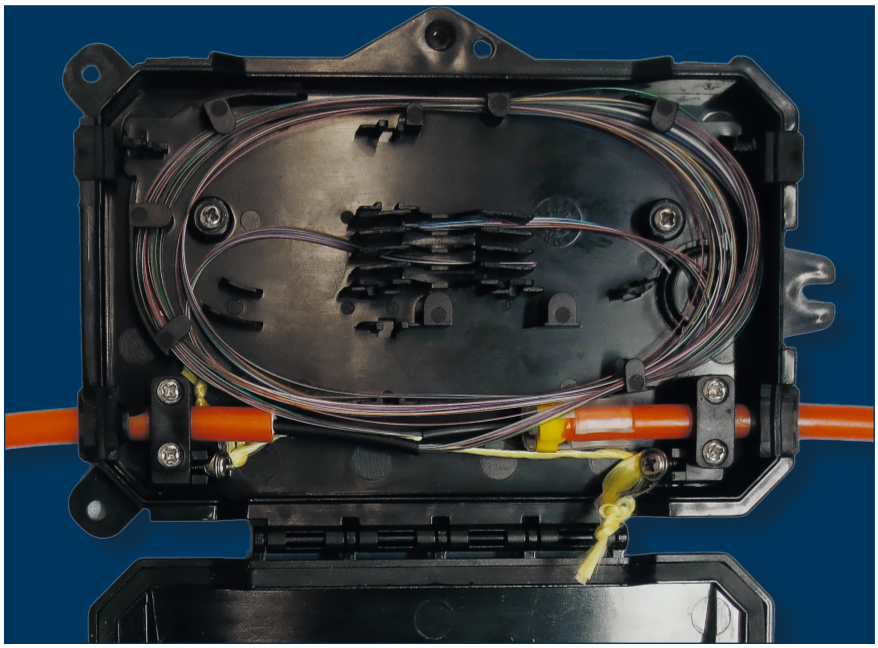
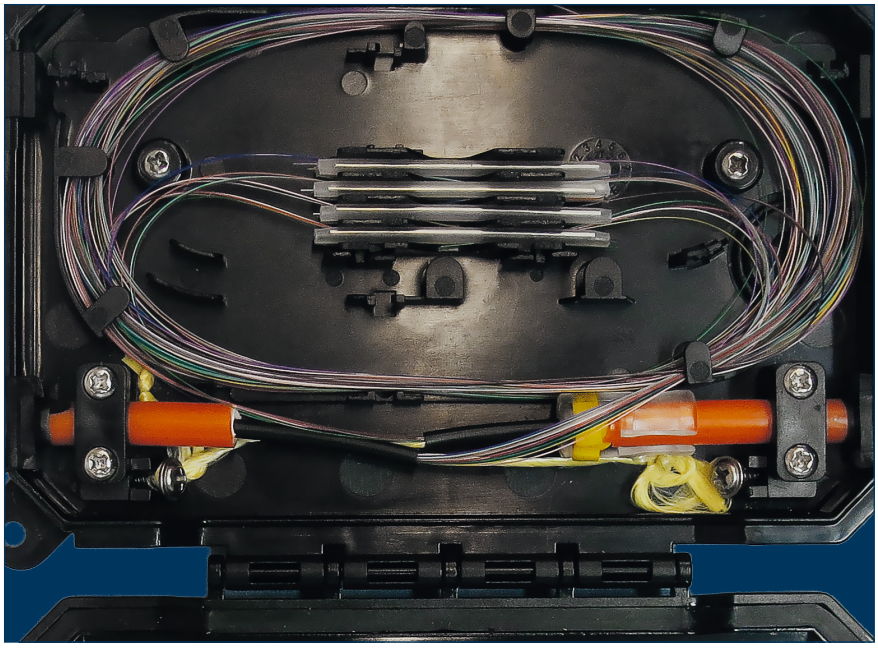


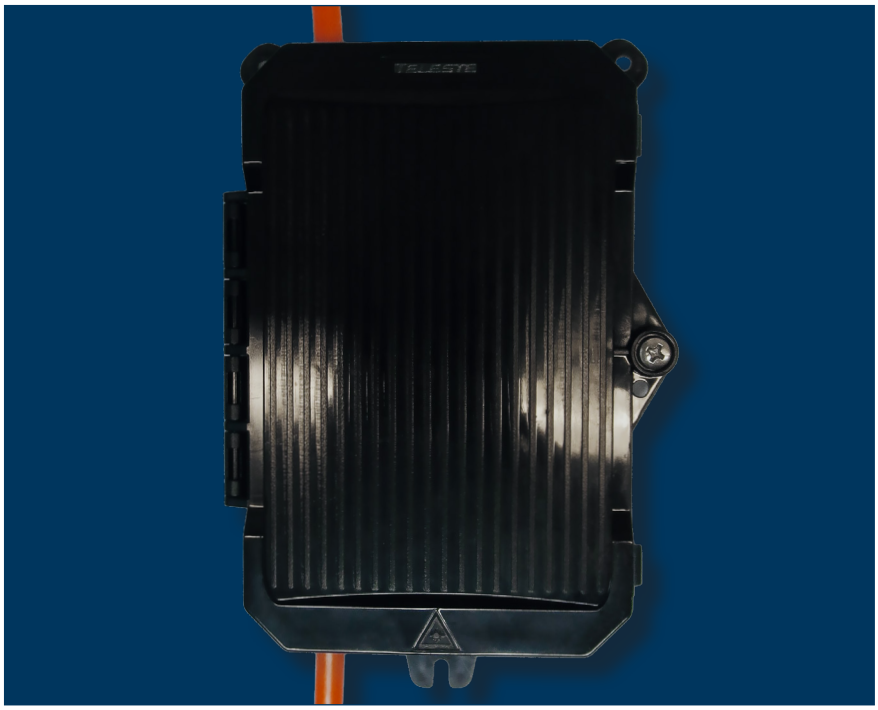
Picture 15

5. Then proceed with splicing the fibers according to your project requirements, and insert them into their designated positions in the splice bridge (see Picture 16).

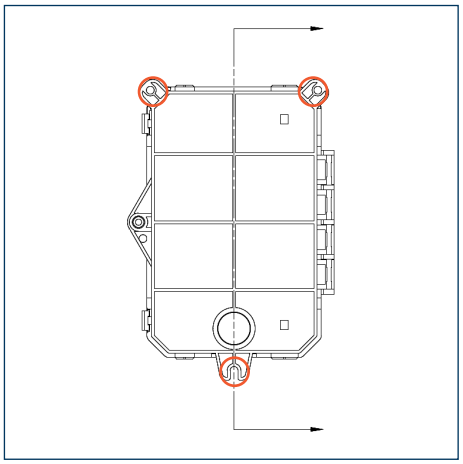


Picture 16

6. Finally, close the lid, tighten the screw, and ensure that the clamps are snapped into position. Gently brush off any dust or dirt to achieve a clean finish. The installation is now complete.



Picture 17



TEN-FWO12EB - Wall-mounting reference

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.

2. Once aligned, secure the box in place by inserting and tightening the self-tapping screws.

Legal Declarations

Teleste reserves the right to make changes to any of the products described in this document without notice and all specifications are subject to change without notice. Current product specifications are stated in the latest versions of detailed product specifications.

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