



TEN-FMN2 - Customer Drop Enclosure Installation Guide

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TELESTE

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Getting Started



TEN-FMN2 - Customer Drop Enclosure

Introduction

The TEN-FMN2 is a unique IP68-rated customer connection enclosure designed to support up to two customers, either via adapters or direct splicing, with additional support for pass-through cabling. The enclosure is highly compact and can be either directly buried in the ground or placed in our specially designed handholes, which support both surface and below-ground installation.

Package Contents

Kindly unpack the TEN-FMN2 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

The TEN-FMN2 base configuration includes the enclosure, adapter holders and a splice holder (adapters and pigtails available in various configurations — see ordering information).

About the TEN-FMN2 Customer Drop Enclosure

The TEN-FMN2 Customer Drop Enclosure is easy to install and operate, featuring a unique IP68-rated design that offers superior protection against dust and water, ensuring reliable performance in harsh environments.

- IP68-rated enclosure designed for easy connection of up to 2 customers
- Suitable for network repair splicing, supporting up to 12 fiber splices
- Unique and flexible sealing system ensures straightforward installation
- Clip-in modules for splicing and adapters for 2 x SC/Dual LC
- Bend radius management for incoming cable and outgoing drop cables
- Pass through cabling support

Product Specification - General

Max. cable diameter	Pass Through Ports – up to 6.8 mm Drop Ports - up to 5mm	Max. number fiber drop cables	2
Dimension (LxWxH)	140 x 108 x 21 mm	IP rating	IP68
Material	Thermoplastic	Supported adaptors	2 x SC/Dual LC
Operating temperature	-40 ° to + 80 °C	Color	Black
Handhole support	Yes		

Ordering Information

TEN- FMN2	Compact IP68 customer connection enclosure
TEN-FMN2-1SCA0	Compact IP68 customer connection enclosure with 1 SC/APC adapter
TEN-FMN2-1SCAP	Compact IP68 customer connection enclosure with 1 SC/APC adapter and pigtail
TEN-FMN2-2SCA0	Compact IP68 customer connection enclosure 2 SC/APC adapters
TEN-FMN2-2SCAP	Compact IP68 customer connection enclosure with 2 SC/APC adapters and 2 pigtails
TEN-FMN2-2LCA0	Compact IP68 customer connection enclosure with 1 LC/APC duplex adapter
TEN-FMN2-2LCAP	Compact IP68 customer connection enclosure with 1 LC/APC duplex adapter and 2 pigtails
TEN-FMN2-4LCA0	Compact IP68 customer connection enclosure with 2 LC/APC duplex adapters

Mechanical Layout

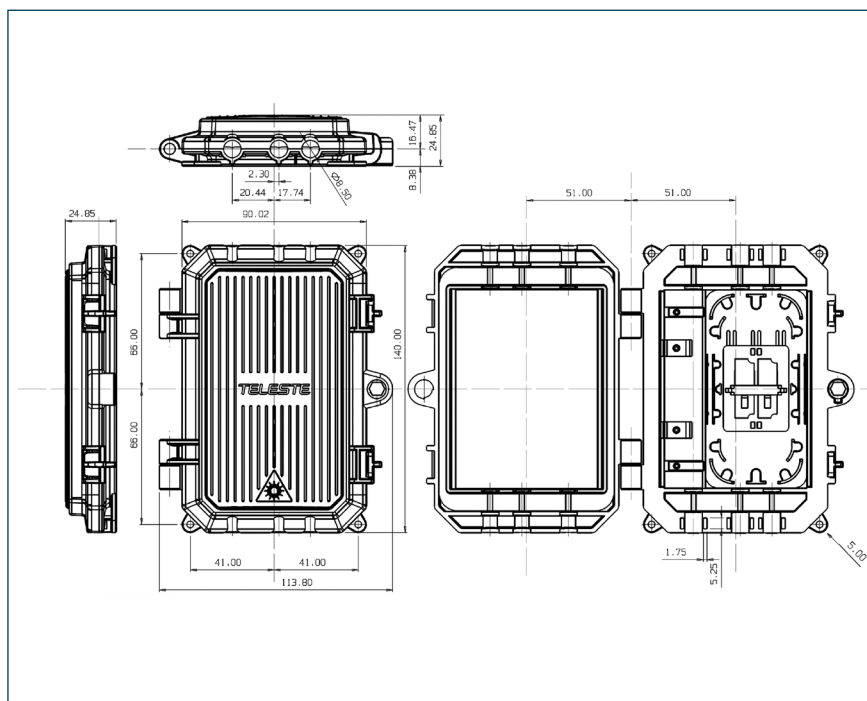


Figure 3 - TEN-FMN2 Mechanical layout

Installation Instructions



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

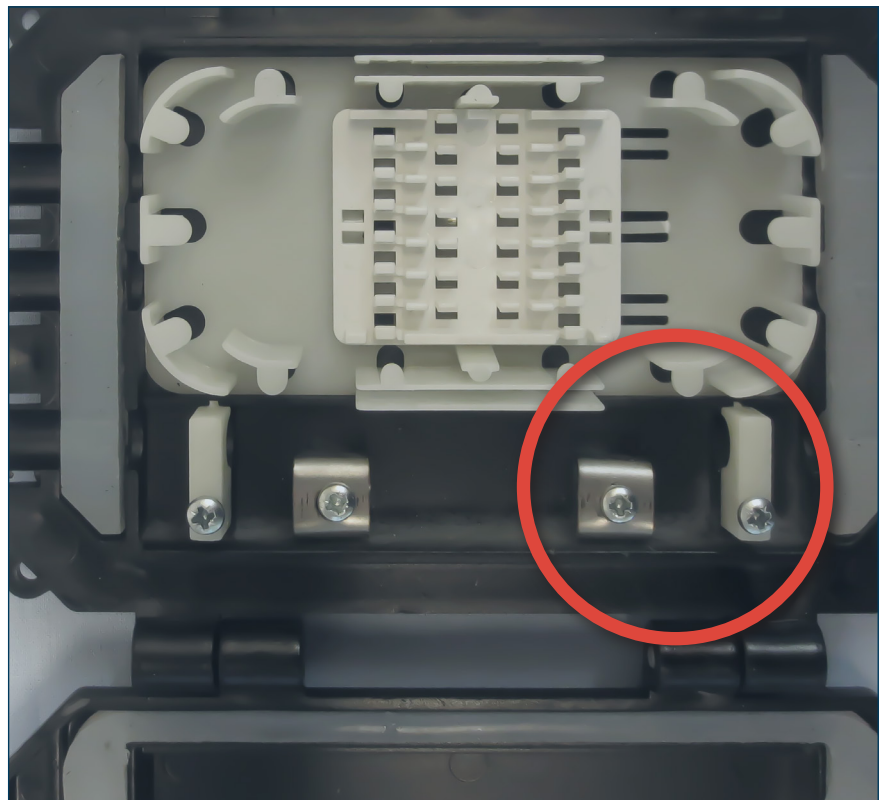
Thank you for choosing this Teleste product. Please take a moment and carefully read these instructions through before installing the product.

General Preparations and Precautions

1. Check the Customer Drop 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 - Drop Cable Configuration

1. Start by loosening the incoming cable clamp screw and the corresponding strain relief screw.

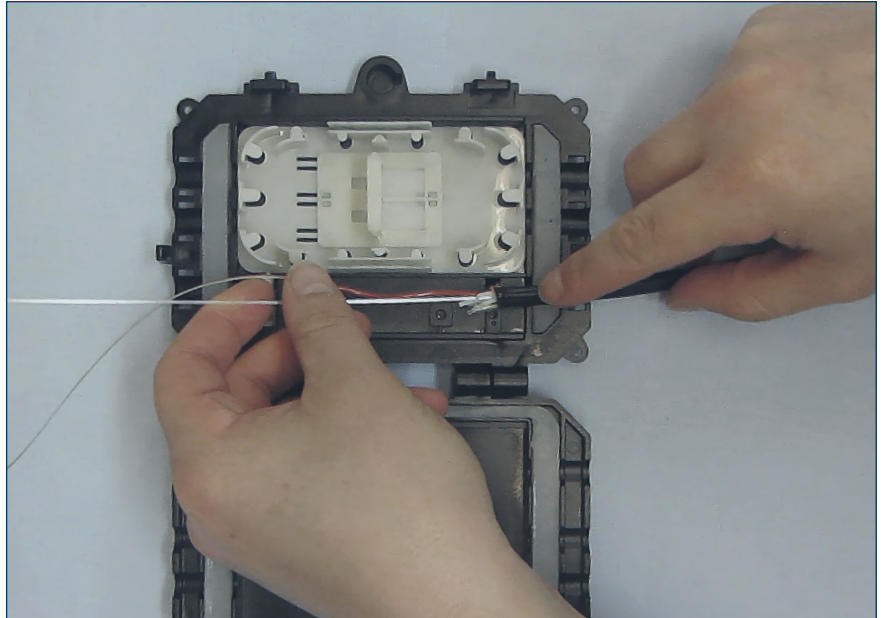


Picture 1



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, insert the incoming cable. Reinstall the clamp and tighten the screw. Position the cable's strength member in the terminal, then secure it by tightening the screw.

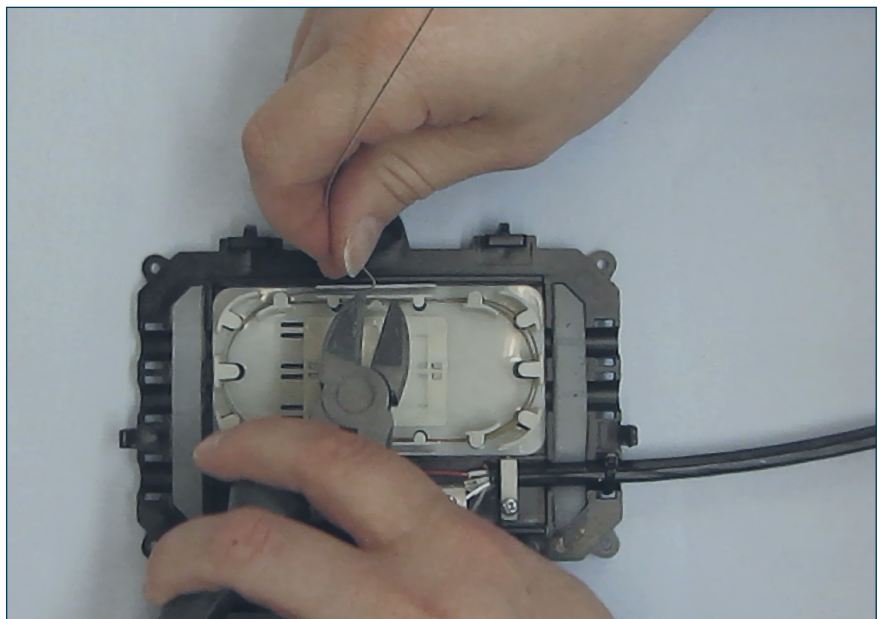


Picture 2



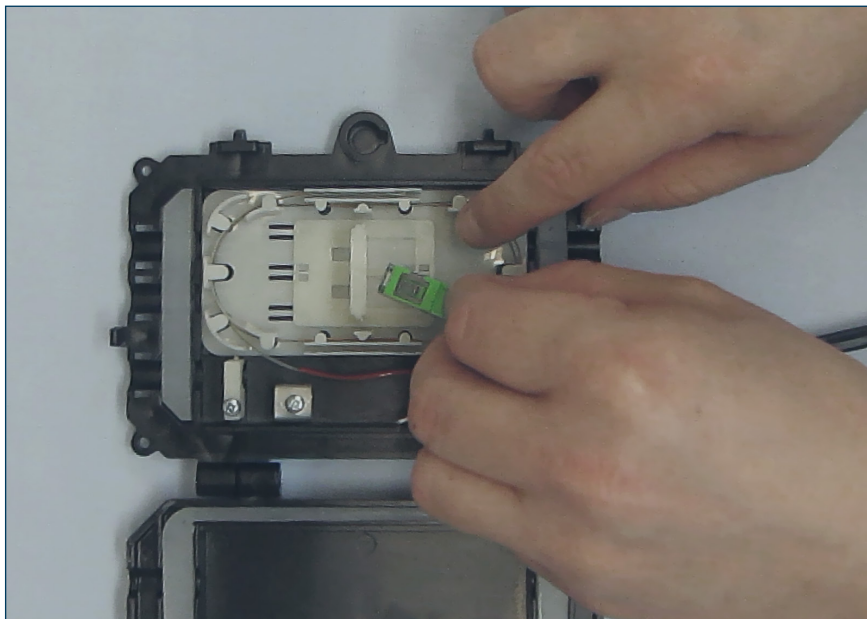
Note! Optical fibers should not be damaged. Cut the damaged fiber, and re-strip the fiber if any damage occurs.

3. Continue by organizing the fibers around the fiber guides, then cut them to length.



Picture 3

4. Start by loosening the incoming cable clamp screw and the corresponding strain relief screw.

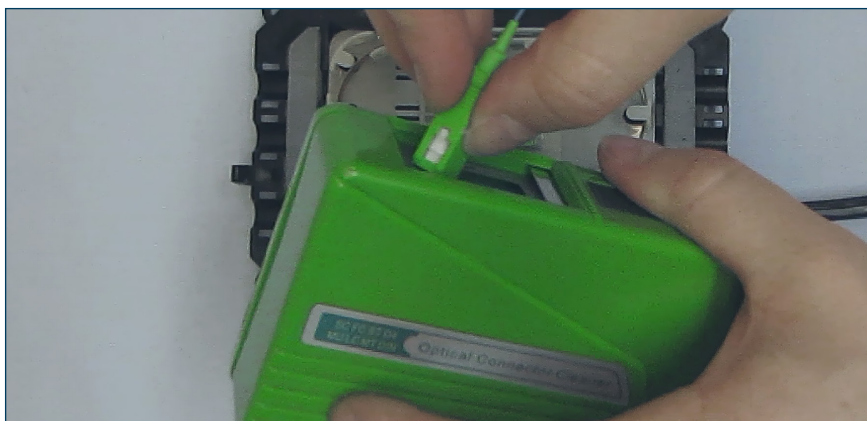


Picture 4

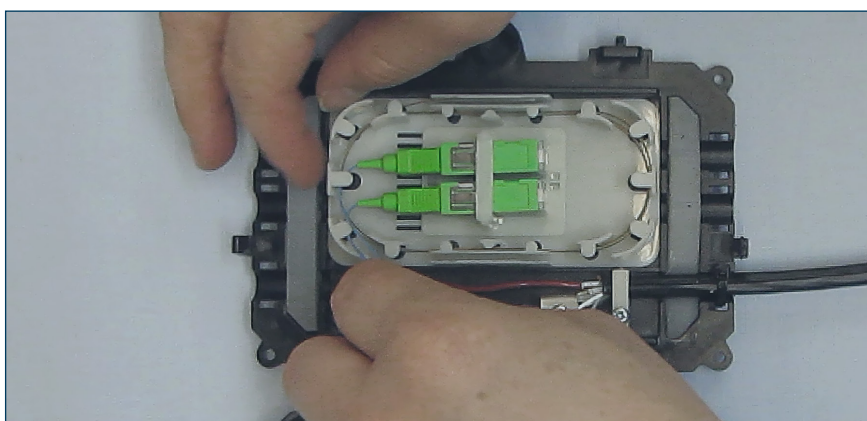


Note! Always clean optical adapters and connector end faces as part of the enclosure installation; this is crucial for maintaining optimal network performance. Be sure to follow proper cleaning techniques and inspect connectors and adapters before installation.

5. Clean the pigtails and install them. Then organize the fibers and cut them to length.

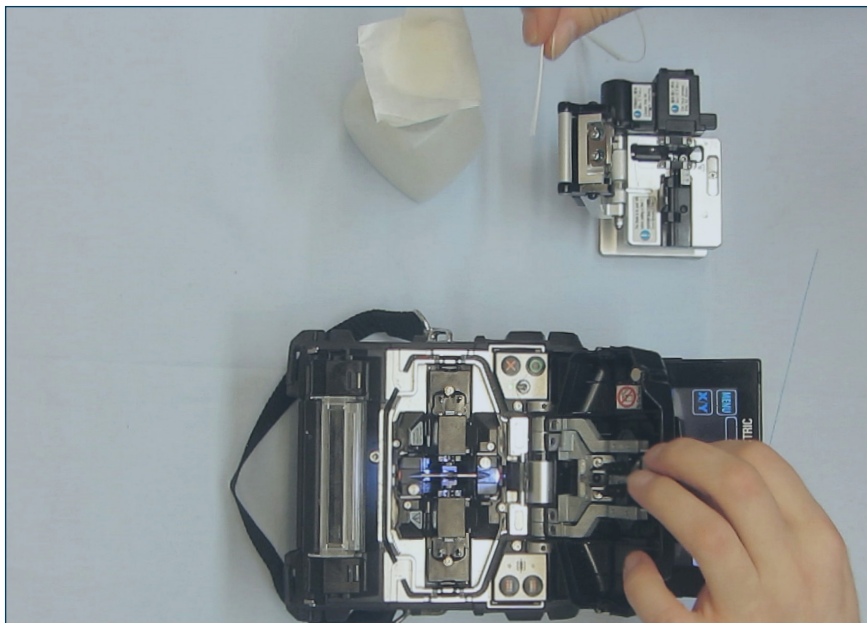


Picture 5



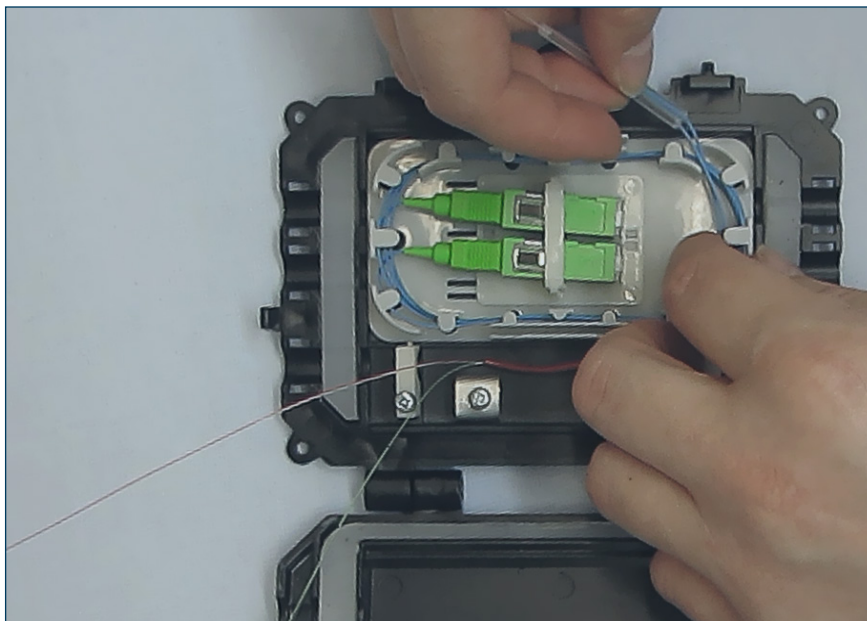
Picture 6

6. Begin unwinding the fibers and prepare them for splicing. Then, splice the appropriate fibers for your project.



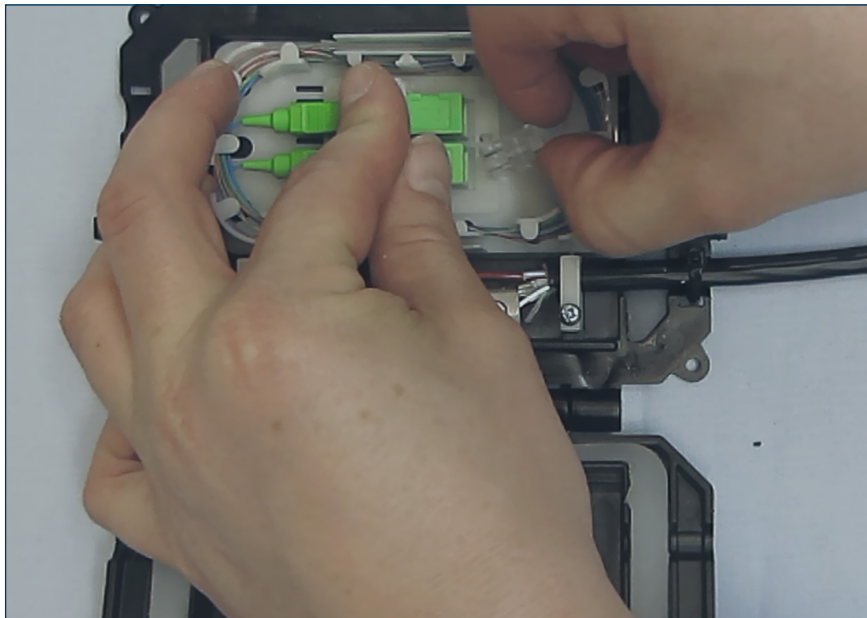
Picture 7

7. Neatly place the spliced fibres back into the tray to avoid any bends or stress that could affect performance, then organise the fibres.



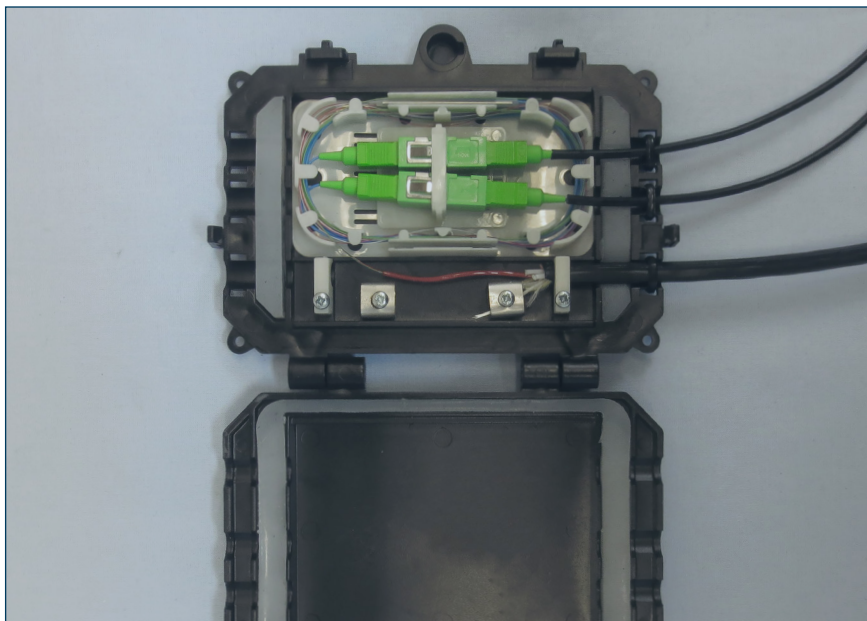
Picture 8

8. Prepare to connect the drop cables



Picture 9

9. Clean the connector end faces of the drop cables, then connect the cables as required.

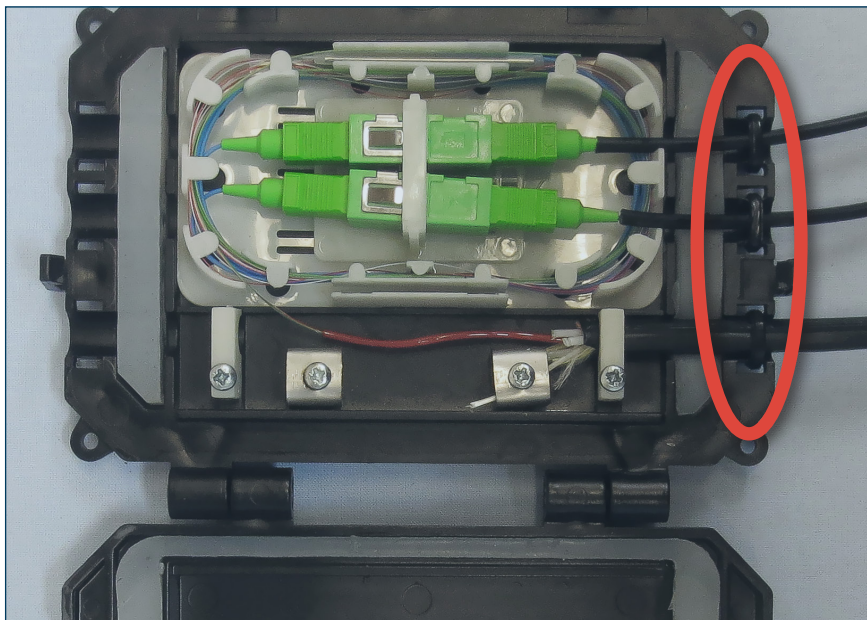


Picture 10



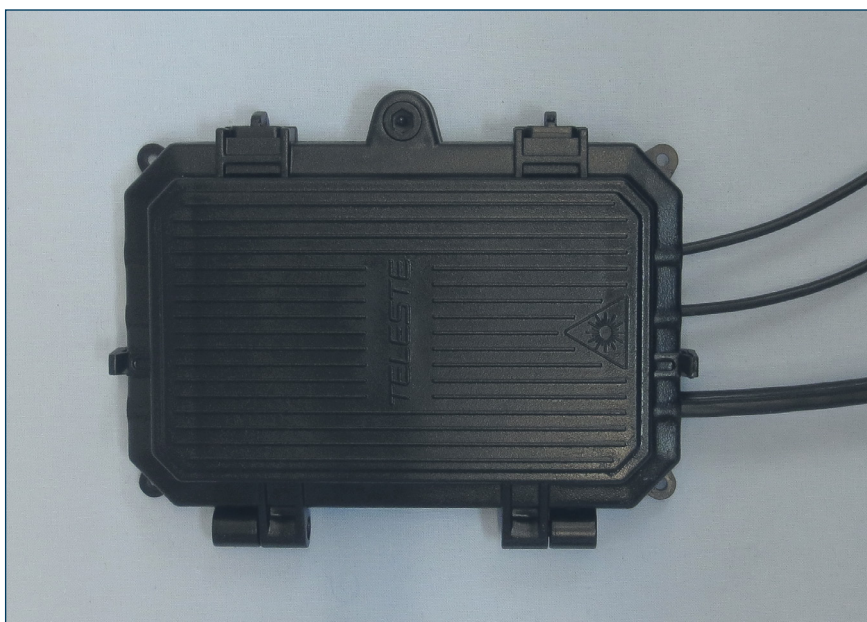
Note! Properly securing the cable is crucial to maintaining the integrity of the optical fibers. Movement and stress on the fibers can lead to physical damage, such as microbends or fractures, disrupting the transmission of light. This can cause poor network performance.

10. Secure the cables with cable ties, taking care not to overtighten them.



Picture 11

11. Complete the installation by tightening the lock screw to ensure the TEN-FMN2 is securely closed.



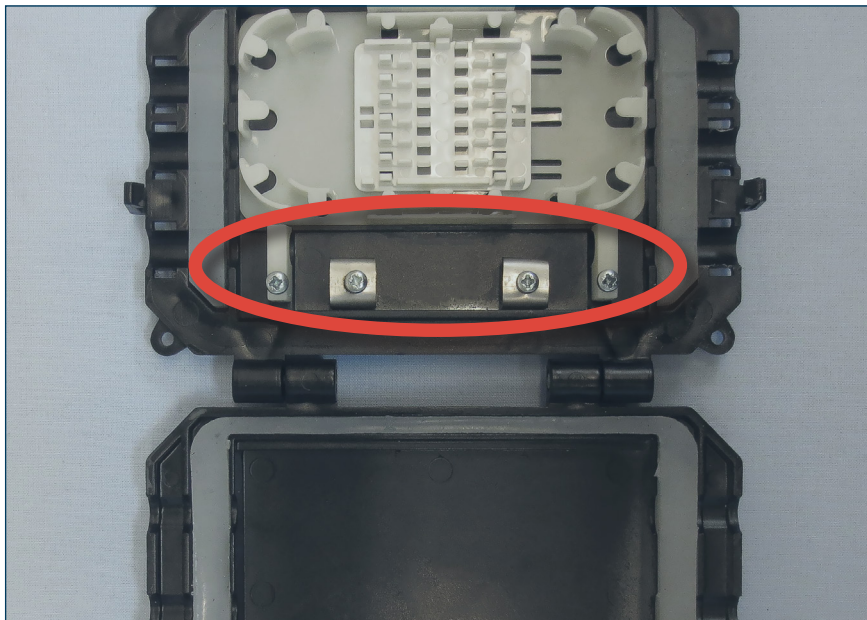
Picture 12



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.

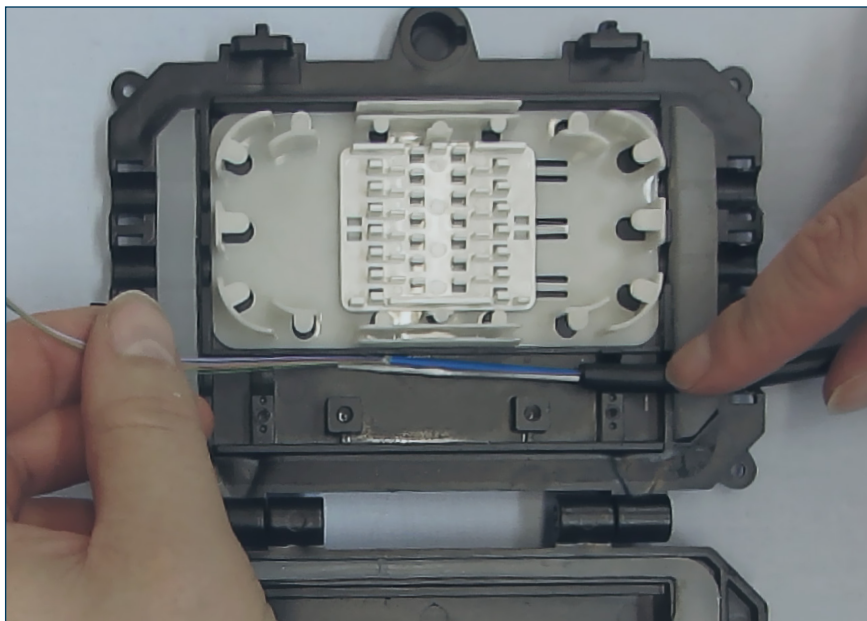
Installation Guidelines - Direct Splice Configuration

1. Start by loosening the clamp screw and the corresponding strain relief screw for both the incoming and outgoing cables.



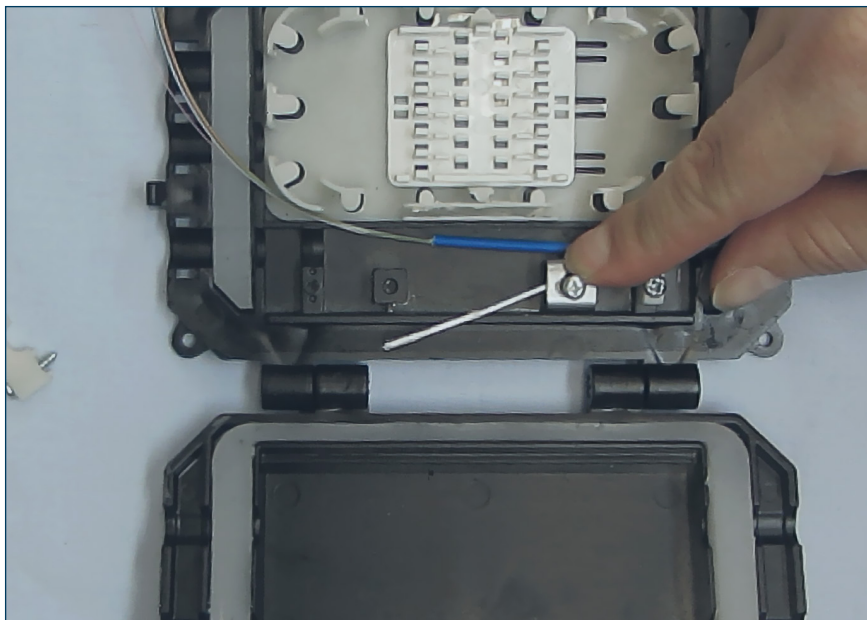
Picture 13

2. Next, insert the incoming cable, then reinstall the clamp and tighten the screw.



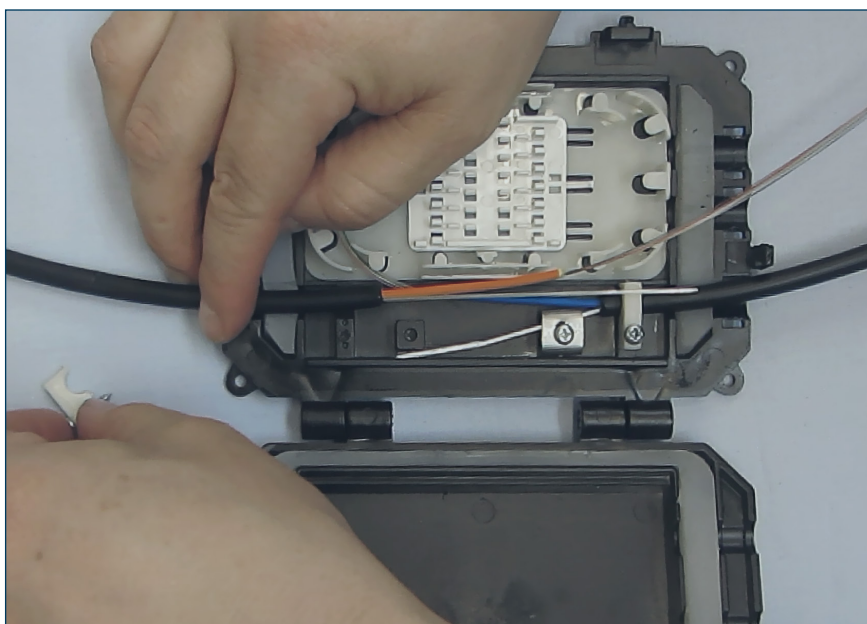
Picture 14

3. Position the cable's strength member in the terminal, then tighten the screw.



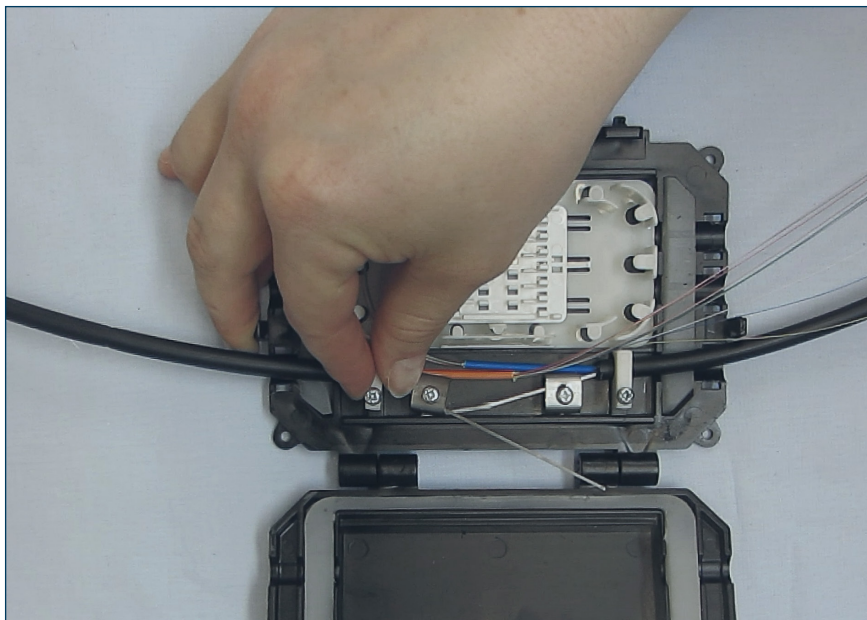
Picture 15

4. Insert the outgoing cable, then reinstall the clamp and tighten the screw.



Picture 16

5. Position the cable's strength member in the terminal, then tighten the screw. Cut the strength members as required

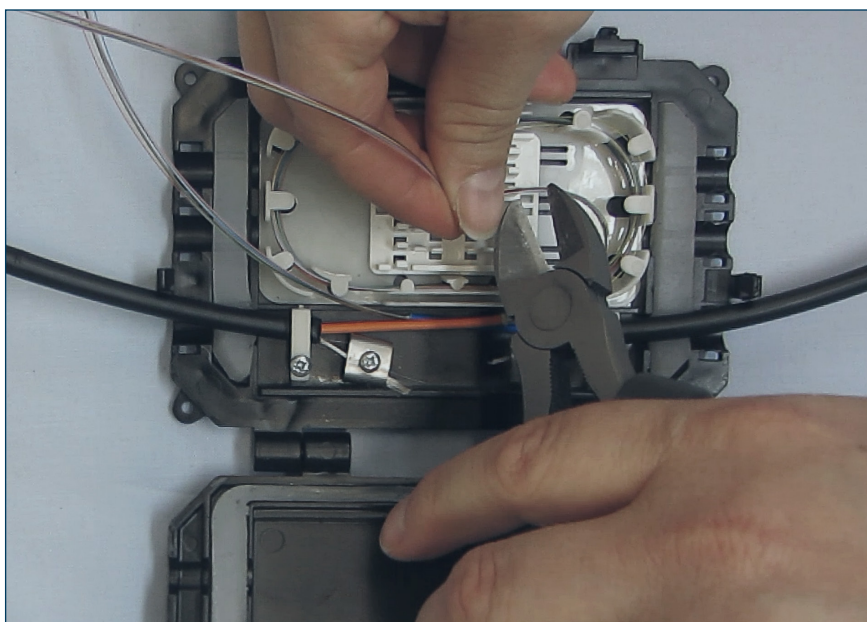


Picture 17



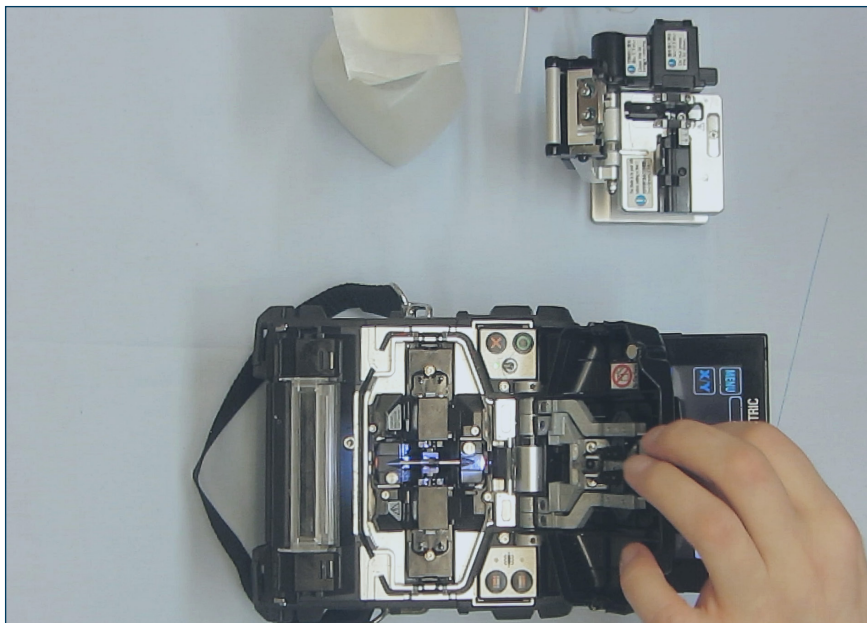
Note! Optical fibers should not be damaged. Cut the damaged fiber, and re-strip the fiber if any damage occurs.

6. Continue by organizing the outgoing fibers around the fiber guides, then cut them to length. Repeat the process for the incoming fibers.



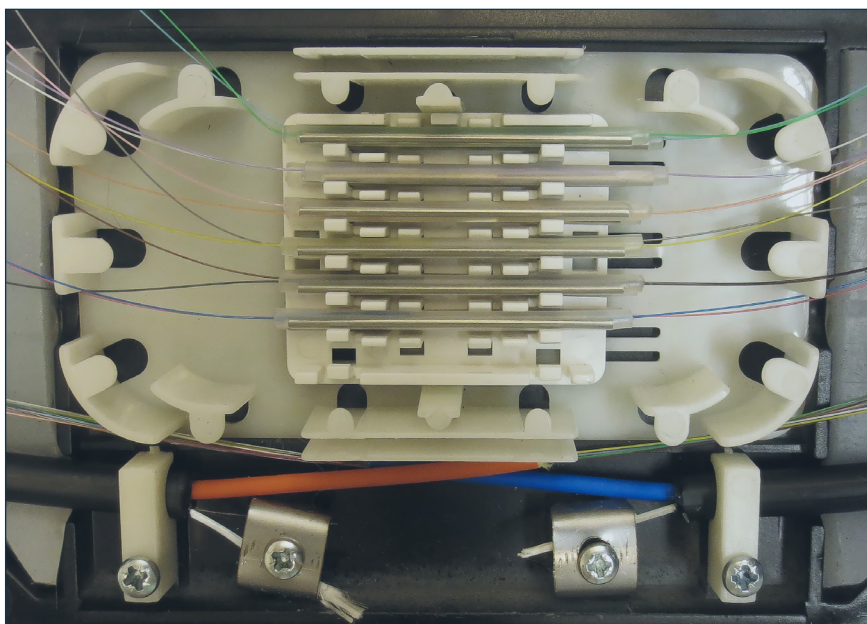
Picture 18

7. Begin unwinding the fibers and prepare them for splicing. Then, splice the appropriate fibers for your project.



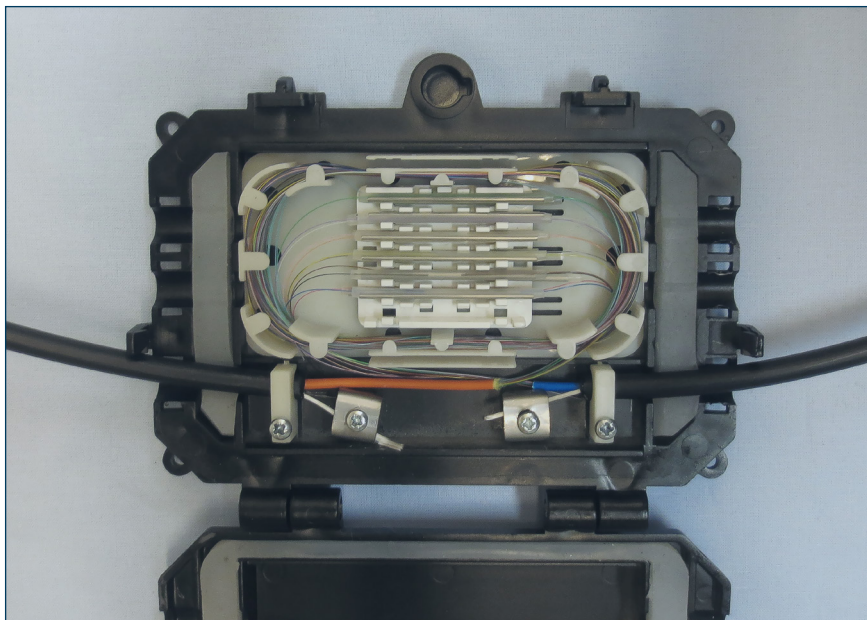
Picture 19

8. Neatly place the splice sleeves back into the tray, avoiding any bends or stress that could affect performance.



Picture 20

9. Proceed with organizing the fibers around the guides

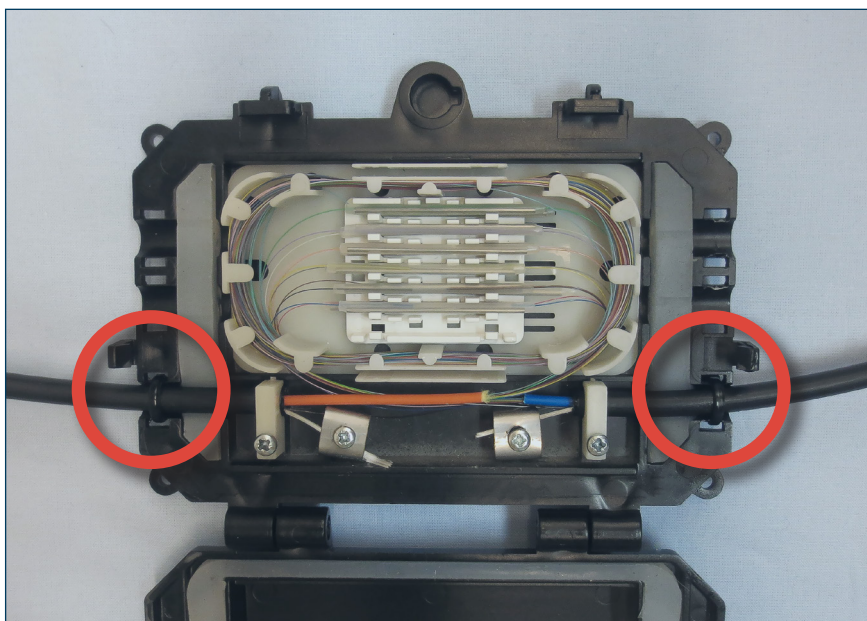


Picture 21



10. Secure the cables with cable ties, taking care not to overtighten them.

Note! Properly securing the cable is crucial to maintaining the integrity of the optical fibers. Movement and stress on the fibers can lead to physical damage, such as microbends or fractures, disrupting the transmission of light. This can cause poor network performance.



Picture 22

11. Complete the installation by tightening the lock screw to ensure the TEN-FMN2 is securely closed.



Picture 23

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