FTTH Fibre Outlet - TEN-FWO2

Installation Guide

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TELESTE

Contents

Getting Started

TEN-FWO2 - Fibre Outlet

Introduction

Thank you for purchasing this Teleste product. The TEN-FWO2 is a modern and compact FTTH Fibre Outlet, designed for indoor mounting in customer premises. The unit is designed for swift and easy installation, and provides an interface between the network and the customer device. This guide will take you through all the steps necessary for a successful installation.

Package Contents

Please unpack the TEN-FWO2 and verify that all items are present, as shown in Figure 1. If any items are missing then please do not hesitate to contact your local seller for help.
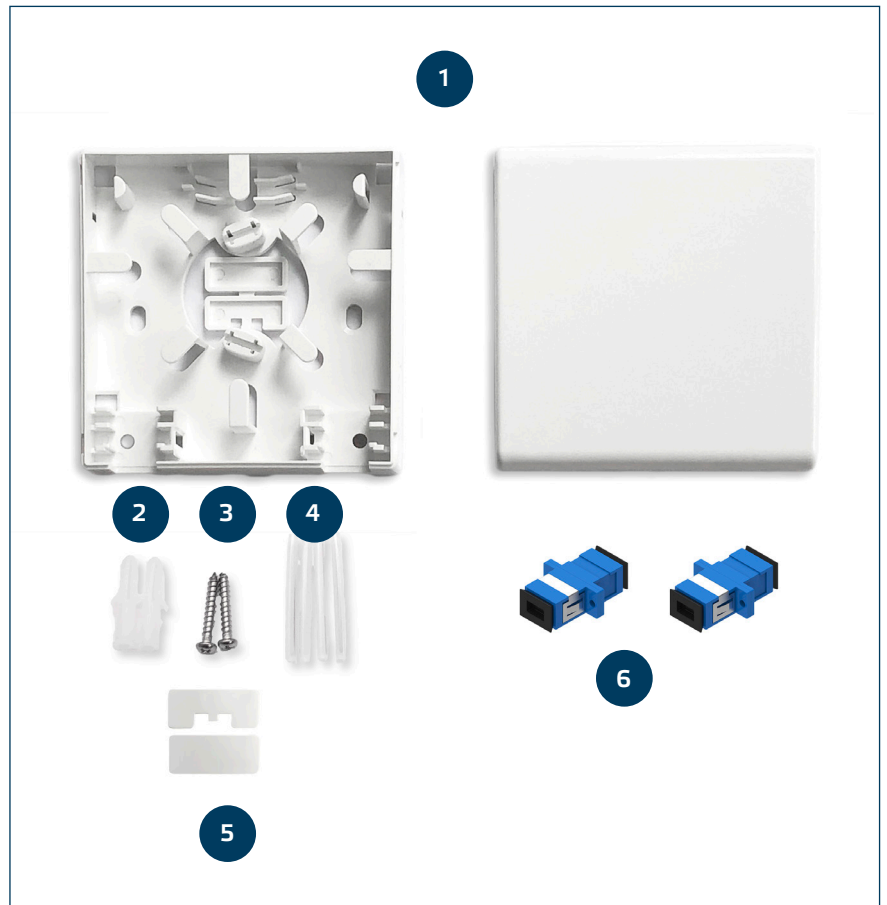

Figure 1 - Package contents

1. FWO2 Fibre Outlet
2. Wall fixings
3. Fixing wall screws
4. Splice protectors
5. Entrance covers
6. Adapters (optional)

About the TEN-FWO2 Fibre Outlet

The TEN-FWO2 has been designed primarily for applications such as FTTH. The unit is very compact and easy to install along with convenient maintenance, it may be delivered empty or with adapters and pigtails in a suitable box according to customer needs.

- An extremely compact, two-parts arranged, fibre outlet that comes with the following dimensions; 86.5 x 86.5 x 24 mm.
- Fixing hardware included.
- Accepts LC duplex or SC simplex adapters.
- Suitable for two adapters.
- Produced in high quality plastics.

Product Specification

Dimension (LxWxH)	86.5 x 86.5 x 24 mm	Weight	0.052 kg
Material	ABS plastic	Supported adaptors	SC simplex, LC Duplex
Operating temperature	-40 - +65 °C	Colour	White (RAL9010)
IP Protection Class	IP20	RoHS	Compliant

Mechanical Layout

The TEN-FWO2 comes with the following mechanical layout, see Figure 2.
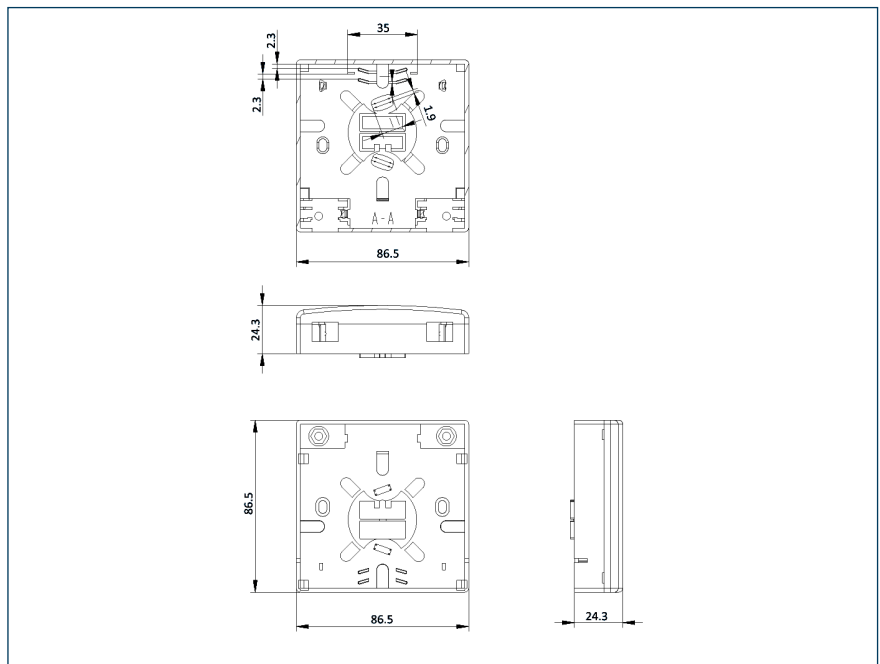

Figure 2 - *Mechanical Layout*

Installation Instructions

⚠️

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

⚠️

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.

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

General Preparations and Precautions

1. Check the Fibre Outlet, 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.

Fibre Routing

Figure 3 illustrates the the preferred method of routing the fibres. The method protects the fibres and maintains a proper bend radius.
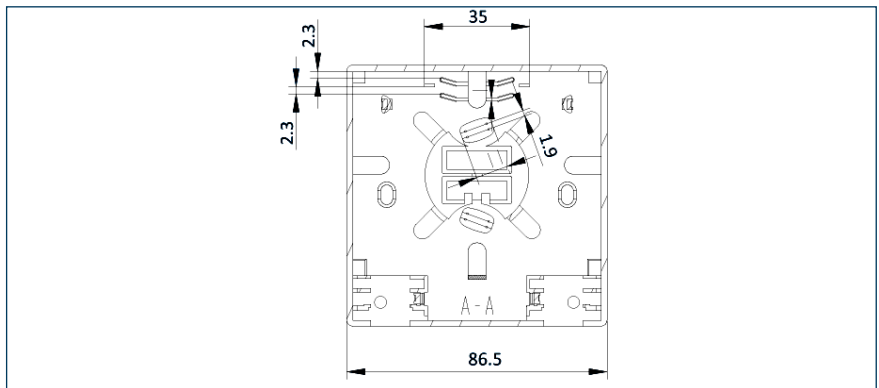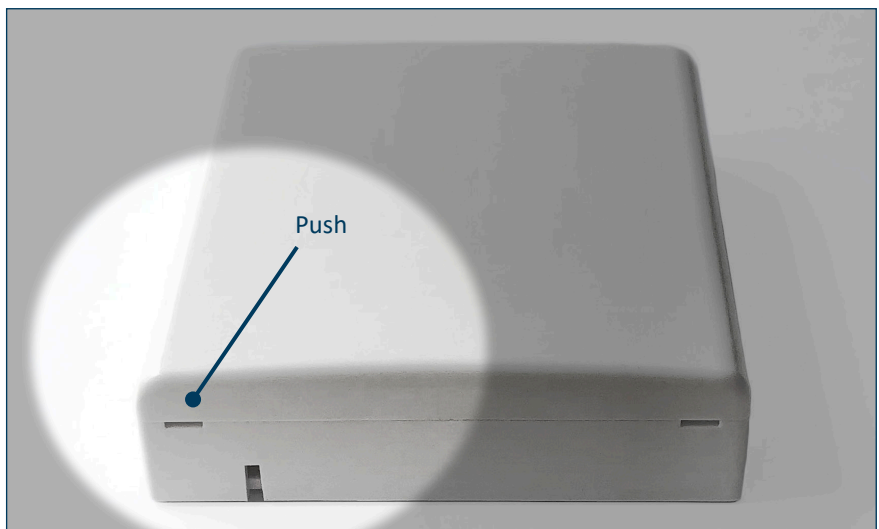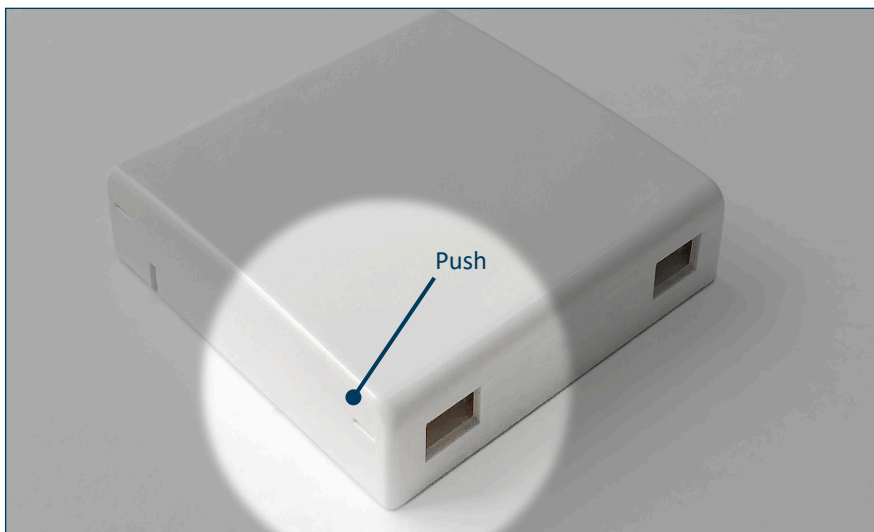

Figure 3

Installation Guidelines

1. Push on the front side of the box, open the cover. See Picture 1 through 3.

Push

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.
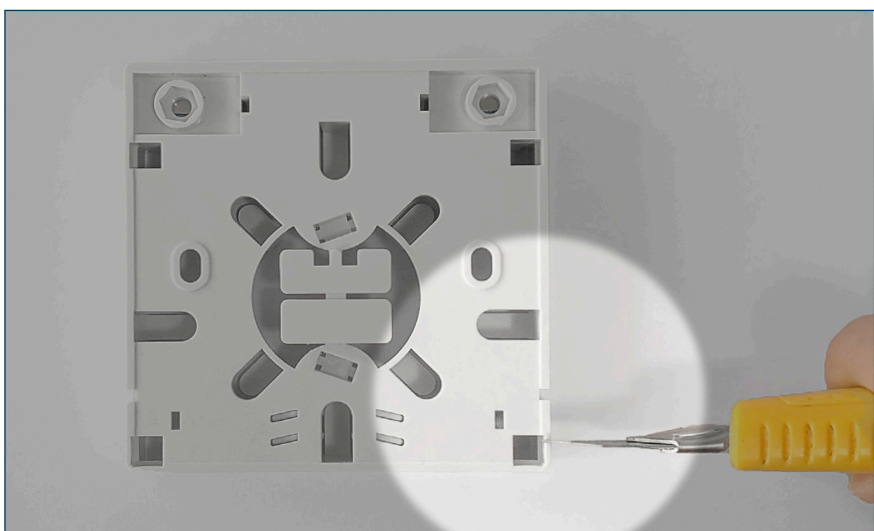

Picture 2

Picture 3

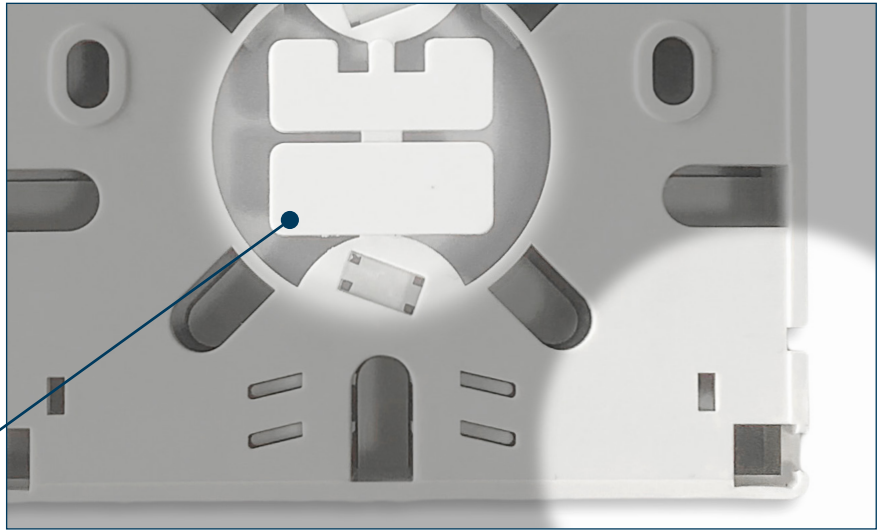2. Remove the plastic clips covering the cable entry, see Picture 4 and 5.

Picture 4

Note! Ensure that the work area and the tools are kept clean and free of dust. Negligence may degrade the fibre strength and cause increased splice losses.

Note! Unused adapter openings may be sealed using the 'Entrance Covers' shown in Picture 5.

Picture 5

3. Install adapter(s) into the outlet, see Picture 6.
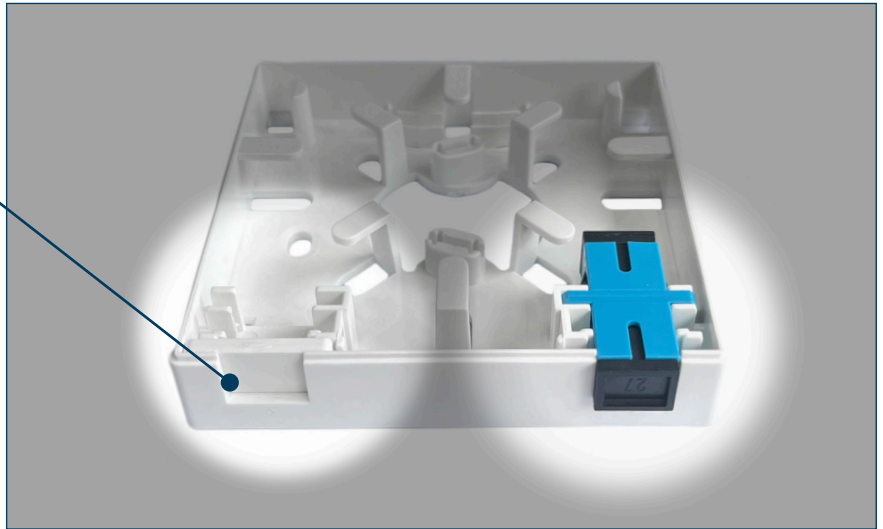
Picture 6

4. Install the 0.9 mm pigtail into the adapter, thread the pigtail through and route around the radius limiters as illustrated in Picture 7.

Picture 7

Note! Take extra care not to damage the fibres. Imperfections like e.g. scratches can initiate a crack. Use a standard fibre stripper designed for the appropriate cable diameter.

Note! Make sure to secure the incoming fibre cable with a cable tie. Care should be taken not to over-tighten, since it can damage and deform the fibres and may attenu-ate and reduce the performance of the optical cable.

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

5. Fix the incoming cable into the outlet using a cable tie, see Picture 8. Alternative cable entry methods are presented Picture 9 and 10.a-b.
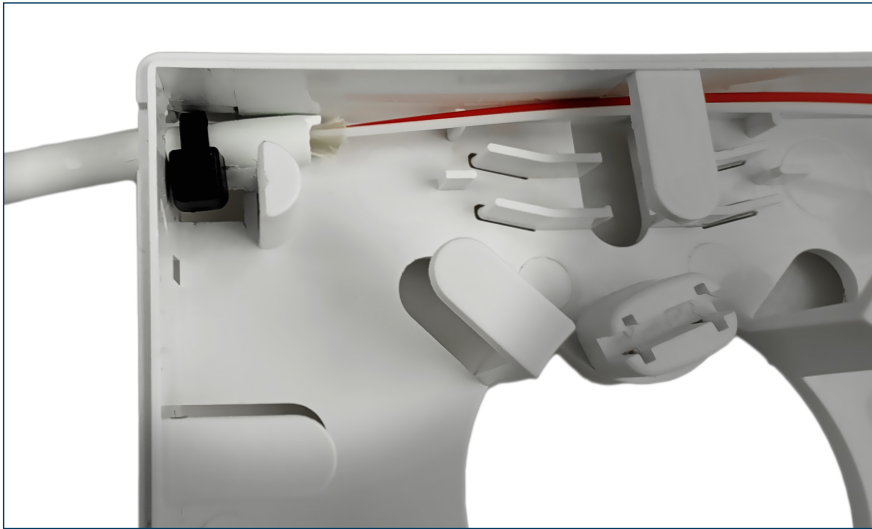
Picture 8

6. An alternative cable entry method is for the cable to enter the outlet from the rear side. Remove the adapter entry covers and bring the cable through the hole of the backplate. Secure the cable with cable ties as shown in Picture 9.
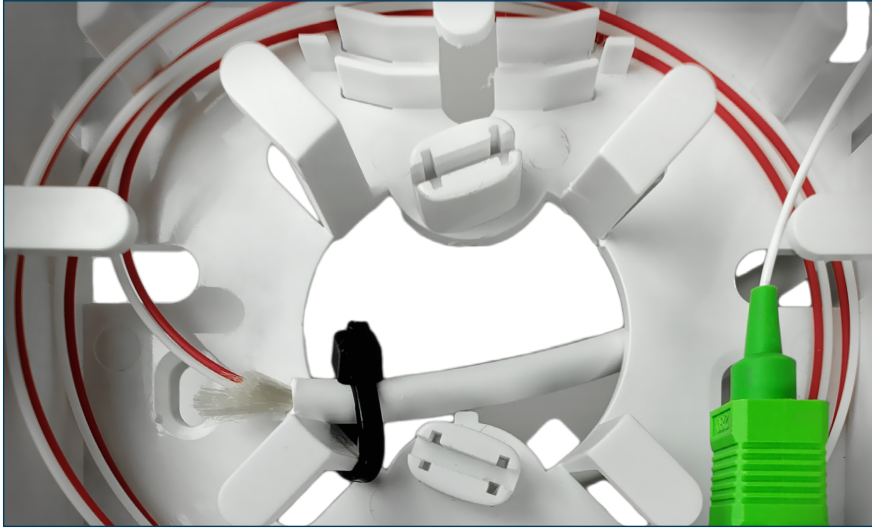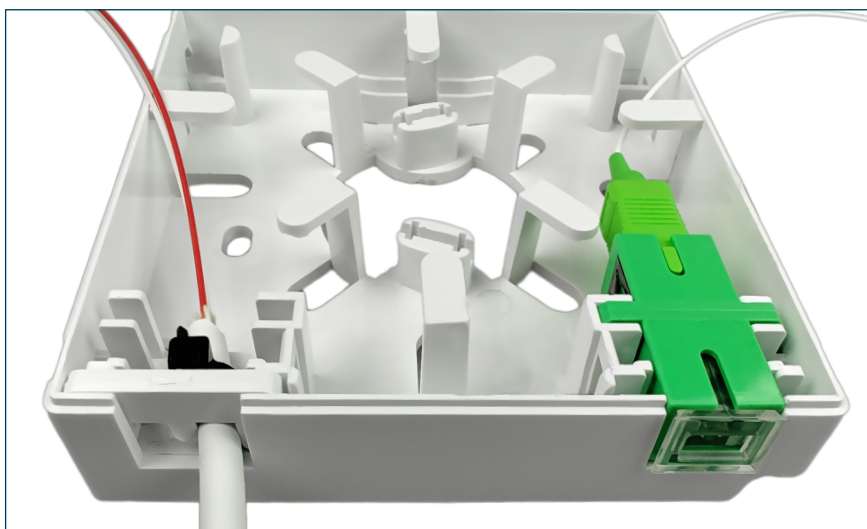

Picture 9

7. Yet another cable entry method is for the cable (method supports up to 7 mm cable) to enter the outlet through an adapter opening. See Pictures 10.a and 10.b how to fix the cable and cover the opening using an entrance cover.
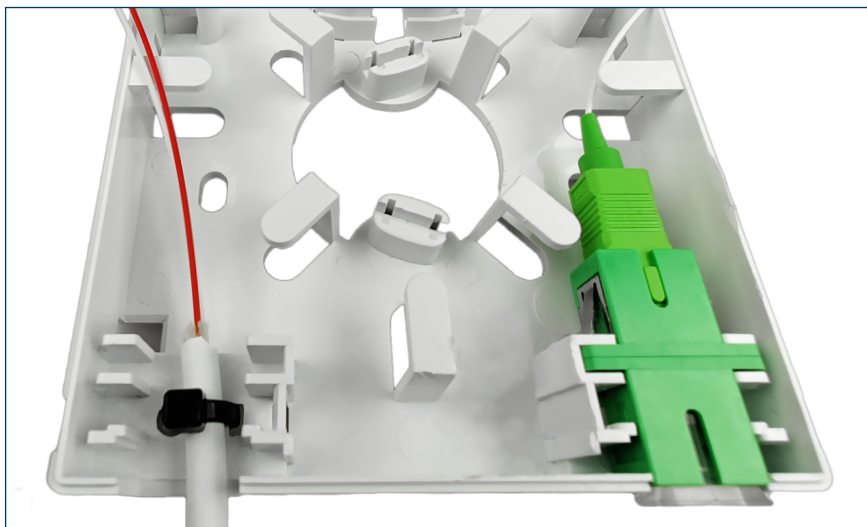
Picture 10.a

Picture 10.b

8. Splice the drop cable with the pigtail and place the sleeve in the splice holder, see Picture 11.

Picture 11

TEN-FWO2

Mounting Guidance

This Fibre Outlet can be mounted directly to any wall. To carry out a wall mount installation: Drill two holes over the wall based on the size in Figure 4. Place the expansion plugs, place the box to match up the holes and use the provided fixing screws to fasten, see Figure 5.
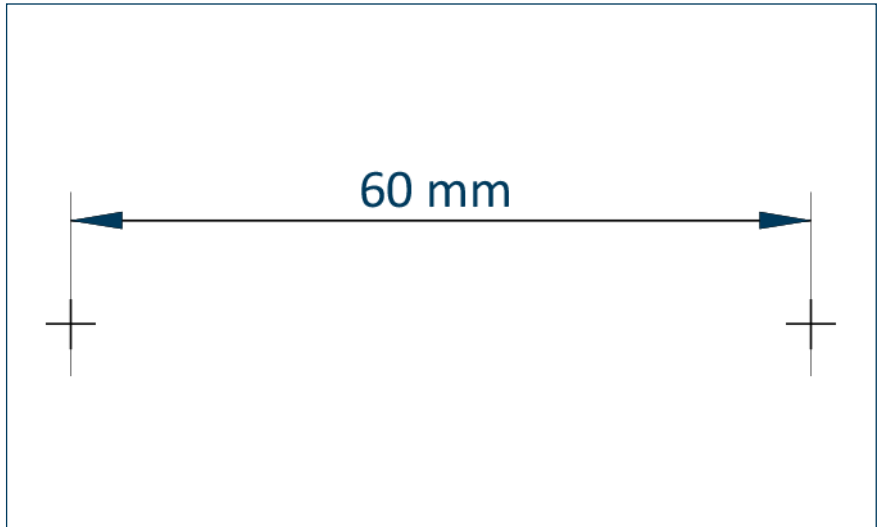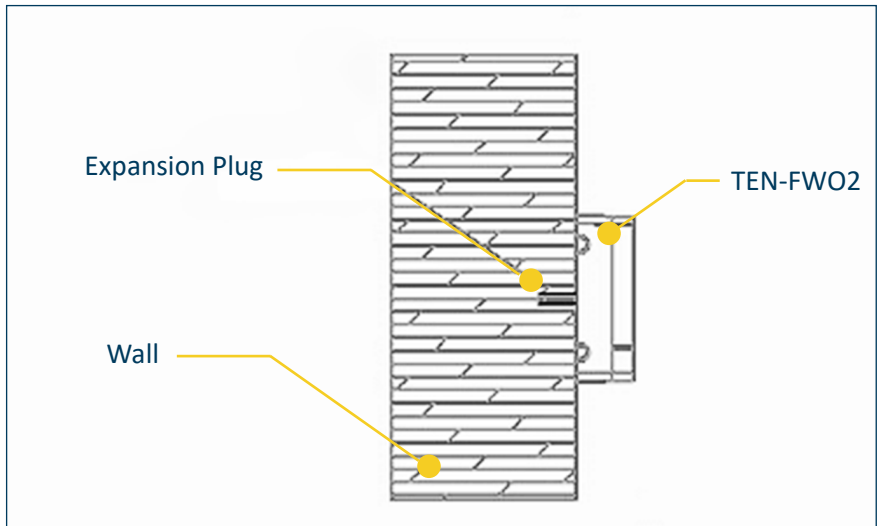

60 mm

Figure 4

Expansion Plug
TEN-FWO2
Wall

Figure 5

Legal Declarations

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