INSTALLATION MANUAL
IN-LINE FIBER FTTH DROP CABLE REPAIR SPLICE CLOSURE

GENERAL

This document will serve as a guidance for installation method of the product "IN-LINE FIBER FTTH DROP CABLE REPAIR SPLICE CLOSURE".

List of products that this manual covers:

- **FCLO-HO-01E-1-PFMX-SQR:** HORIZONTAL 1F SPLICE CLOSURE, 1 SPLICE SLEEVE PRELOADED FTTH.

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INDEX
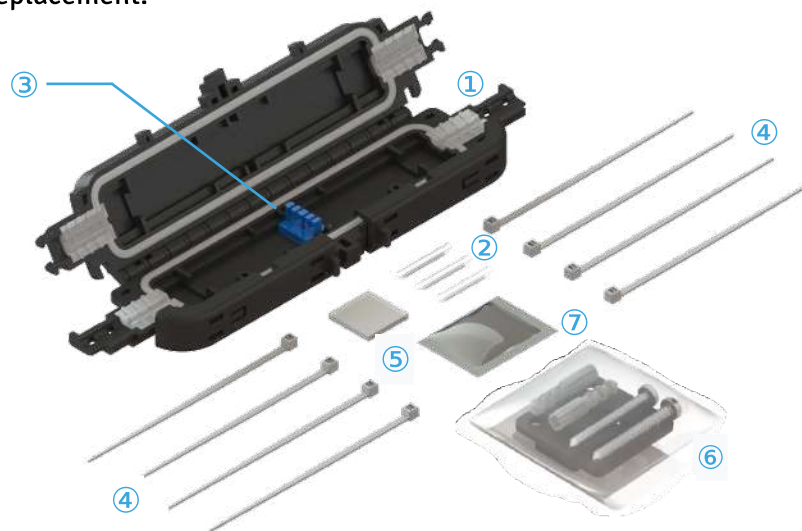
INSTALLATION MANUAL
IN-LINE FIBER FTTH DROP CABLE REPAIR SPLICE CLOSURE

SPLICE KIT INSTALLATION

The "IN-LINE FIBER FTTH DROP CABLE REPAIR SPLICE CLOSURE" by FUSIONGUARD® is preloaded with:

NUMBER	CODE	DESCRIPTION	QTY
FCLO-HO-01E-1-PFMX-SQR			
1	FCLO-HO-01E-SQR	HORIZONTAL 1F SPLICE CLOSURE FTTH CABLE	1
2	FM-FO-ME-25-15	25 mm SPLICE SLEEVE WITH 1.5 mm GUIDE*	3
3	SSH-S4	SPLICE SLEEVE HOLDER	0.5
4	CN25100-NE	2.5mm x 100mm OUTDOOR PLASTIC CABLE TIE	8
5	FCLO-CV-20MM	VULCANIZING TAPE 20 MM X 20 MM X 2 MM	1
6	FCLO-HO-01E-WKIT	WALL MOUNTING KIT HOR 01F SPLICE CLOSURE	1
7	SG-5G	SILICONE GREASE BAG 5 GR	1

*Splice closure designed for 1 splice. Two 25 mm splice sleeve extra included (3 pcs total).

With our kit, any drop cable can be repaired quicker and easier than a complete last mile installation replacement.

STEP 1: CABLE´S PREPARATION FOR SPLICING PROCESS

NOTE: It is important to carry out this process on a flat surface; in case of in line installations 2 people may be required.

1.1 Make sure you have the right cable to follow the steps.

In this case, use **FTTH Drop Cable** (3 mm x 2 mm).

First, strip the cable by removing the outer jacket up to 91 mm (Side A) and 66 mm (Side B) as it shown.

Side A   Side B

91 mm   66 mm
3.6 in   2.6 in
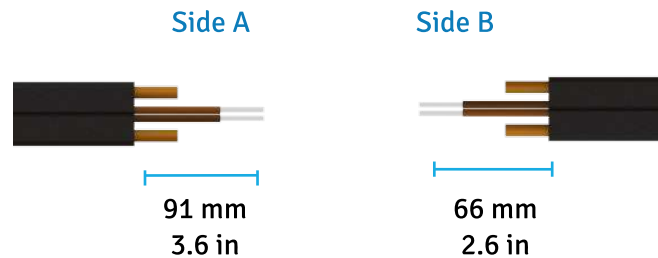
1.2 Cut the loose tube flush to the outer jacket.

1.3 Once the loose tub is cut, prepare the fiber and making sure that the cable ends are correctly stripped.

Place the splice sleeve into the largest fiber (91 mm) as in the next image, in this case, into the side A.
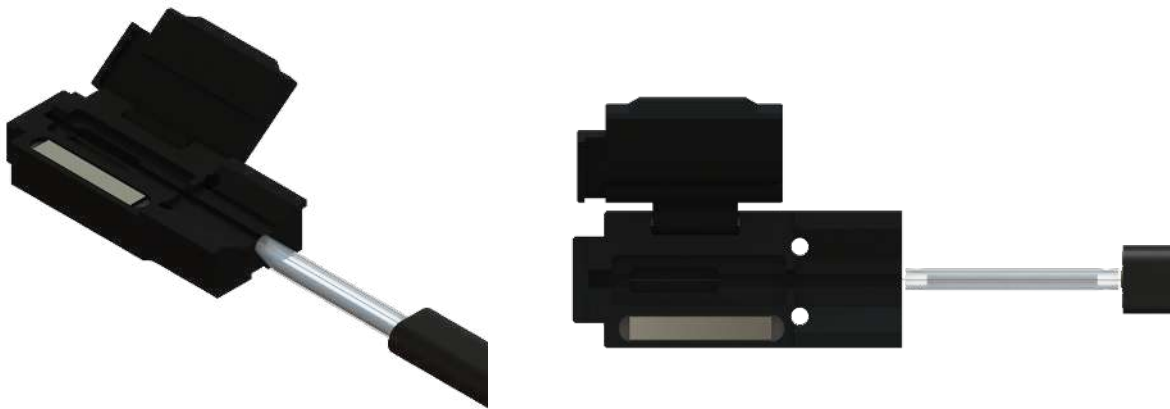
Side A   Side B

Largest fiber

fusionguard.com
info@fusionguard.com

FUSIONGUARD

1.4 Prepare the fiber for splicing by stripping 30 mm each side.

30 mm   30 mm
↑   ↑
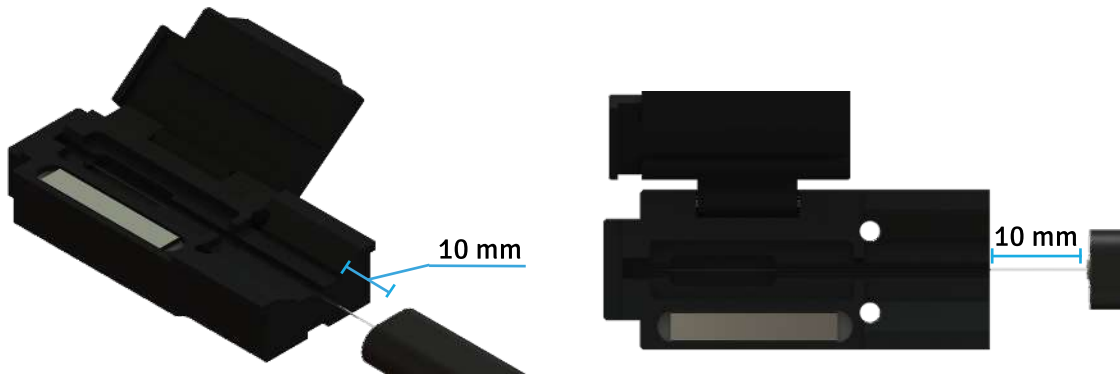Bare   Bare
fiber   fiber

1.5 Place the splice sleeve arrangement into the fiber clever leaving a distance of 10 mm (1 cm).

Side A

Side B

10 mm

10 mm

1.6 Once the cable is ready, make the splicing process.

Result:

STEP 2: SPLICE SLEEVE ARRANGEMENT

2.1 Begin by opening the **splice closure**, applying enough force on the hinges using a screwdriver.
As a reference, open it as shown in the next picture:
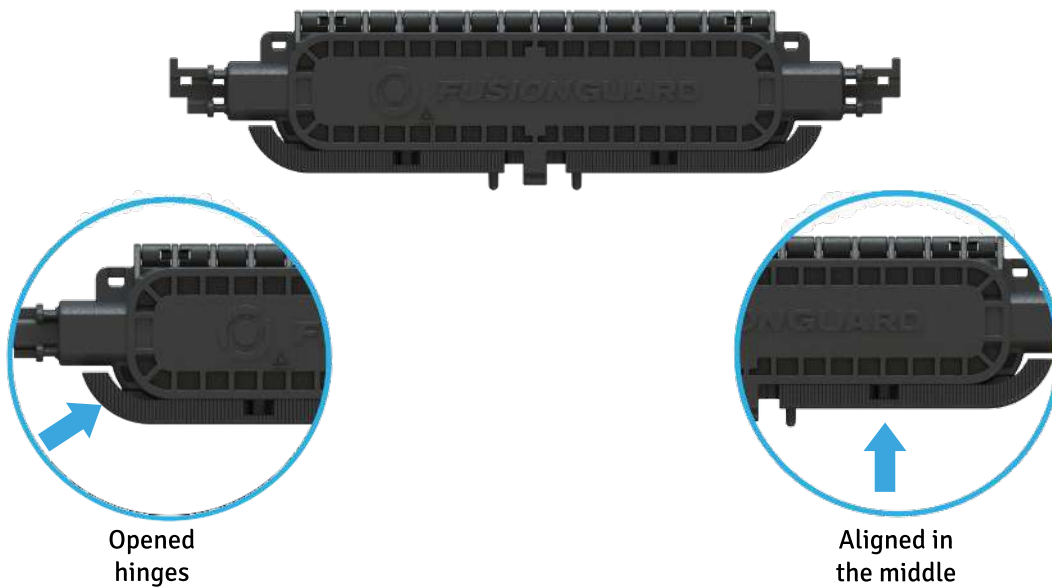
RIGHT SIDE

①

②
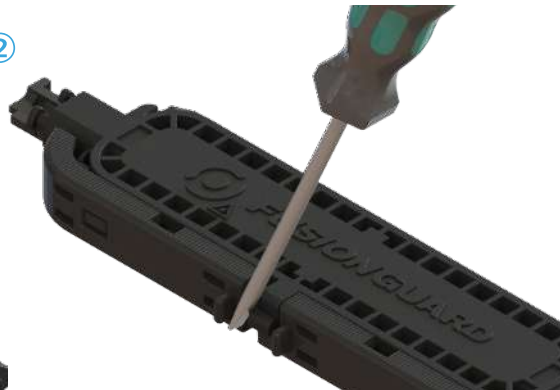
LEFT SIDE

①

②

Opened splice closure

Opened hinges
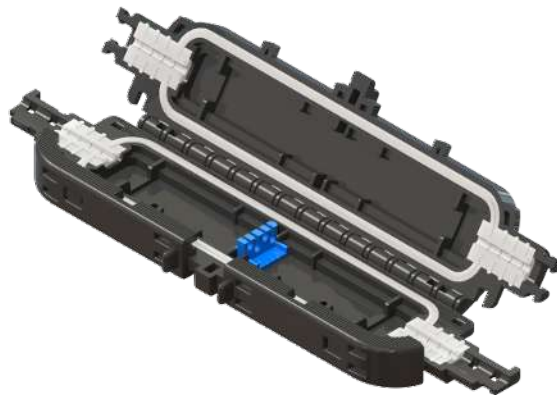
Aligned in the middle

2.2 Once the splice closure is opened, the next step will be holding the cable in place for better splice sleeve arrangement.

2.3 Place the longest side of the splice sleeve arrangement (Side A) on the longest side of the splice closure as it shown in the next picture.

NOTE: Pre-lubricated item. Avoid leaving the splice closure open. For IP68 improvement add silicone grease at the gasket before closing it.

Side A

Side B
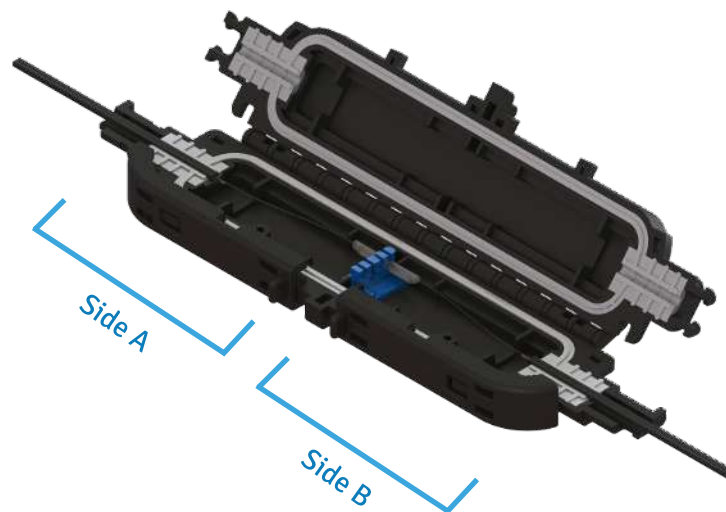
2.4 Once the cable is placed, apply vulcanized tape to the cable **on both** sides in order to completely seal the entry.

Apply the vulcanized tape to the grommets top to the grommets buttom as it shown.
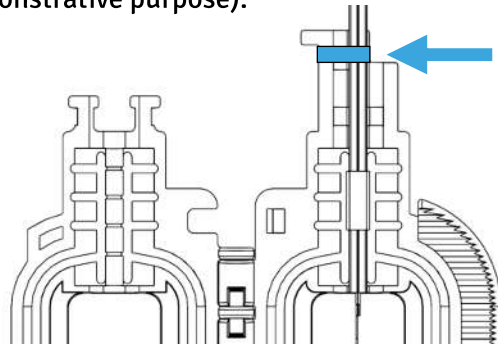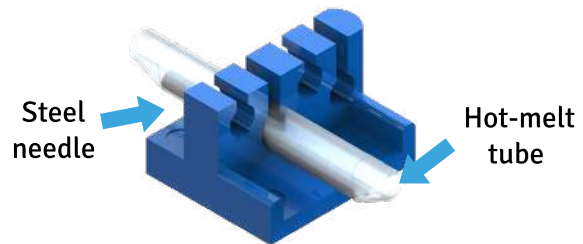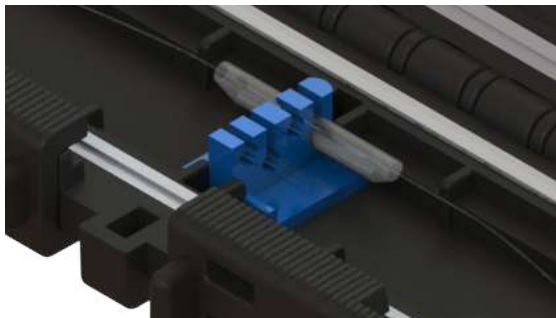

Top

Buttom

Result:

STEP 3. ZIP TIES

3.1 Place the cable and apply just **one** zip tie as shown to keep the cable properly placed as it shown.

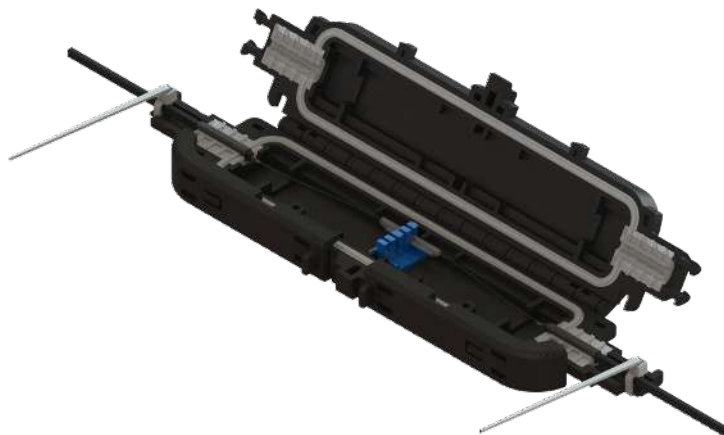(Black zip ties will be shown white only for demonstrative purpose).

3.2 Place the splice sleeve in the splice sleeve holder as it shown in the next image.
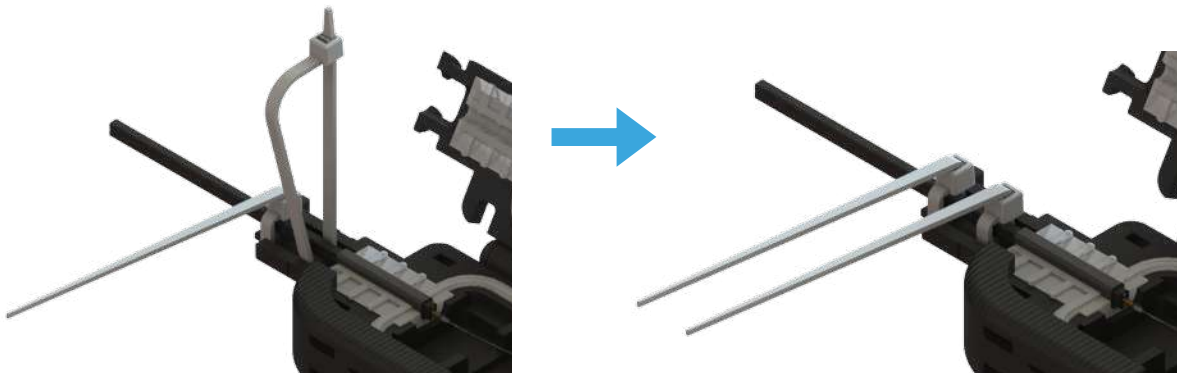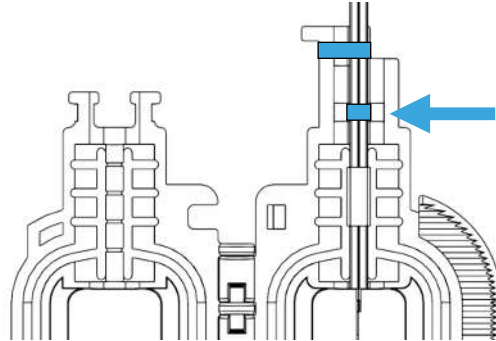
Steel needle

Hot-melt tube

3.3 Now that the splice sleeve is in its place, **proceed to secure the other side of the cable** and secure it with the black zip ties to hold it as shown.
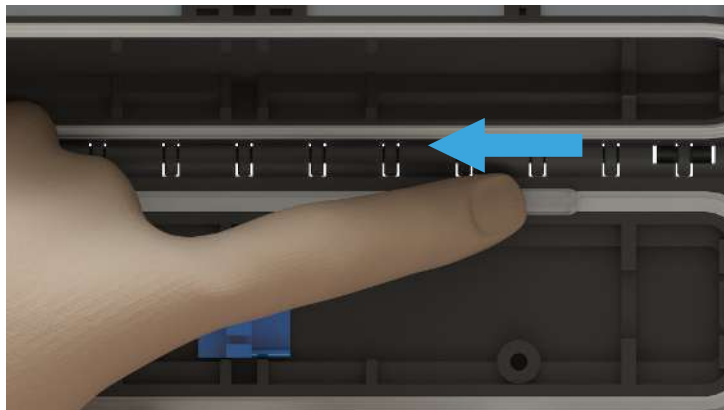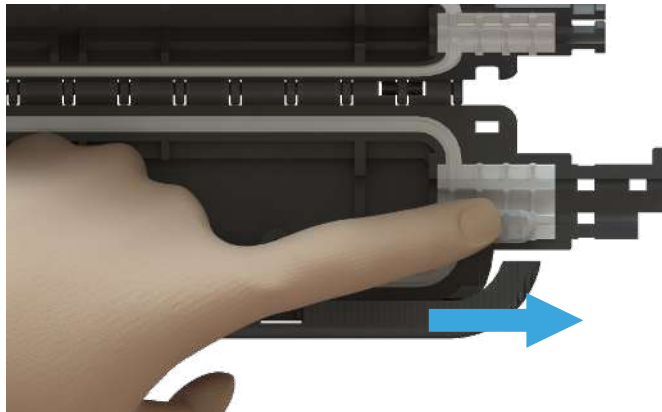
Result:

3.4 Next, apply the zip ties one on each side as it was shown **before closing the splice closure**. Cut off the surplus.

Result:

3.5 Open the silicone grease bag and add it over all the grommet as it shown.

3.6 Proceed by closing the splice closure, placing the base and top together, and pushing the hinges.
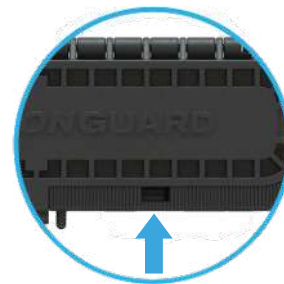
Note: Be careful that the splice is correctly located inside the in line splice closure before closing it as it shown in the image.
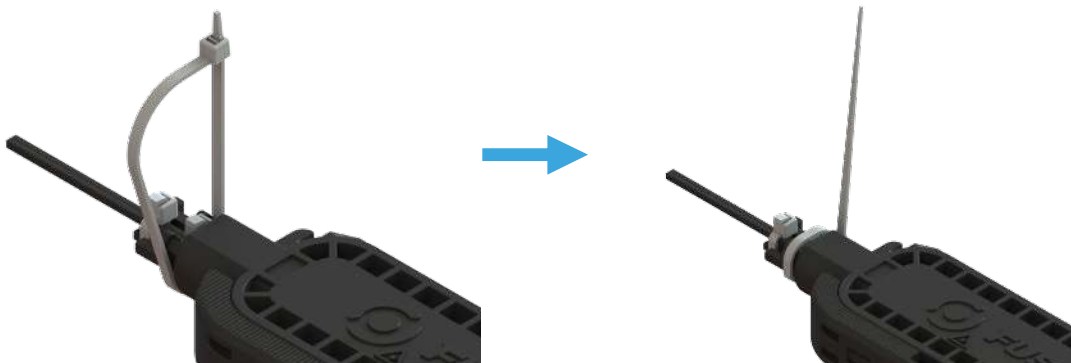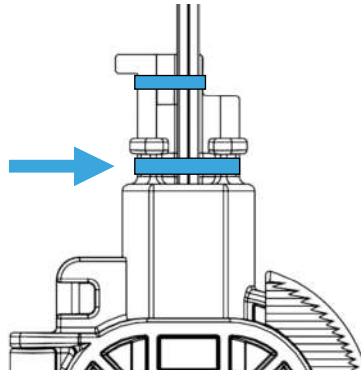

Closed splice closure

Closed hinges

Not visible mark

3.7 Apply two more zip ties, **one on each side** as shown. This will help by applying force on the sides.
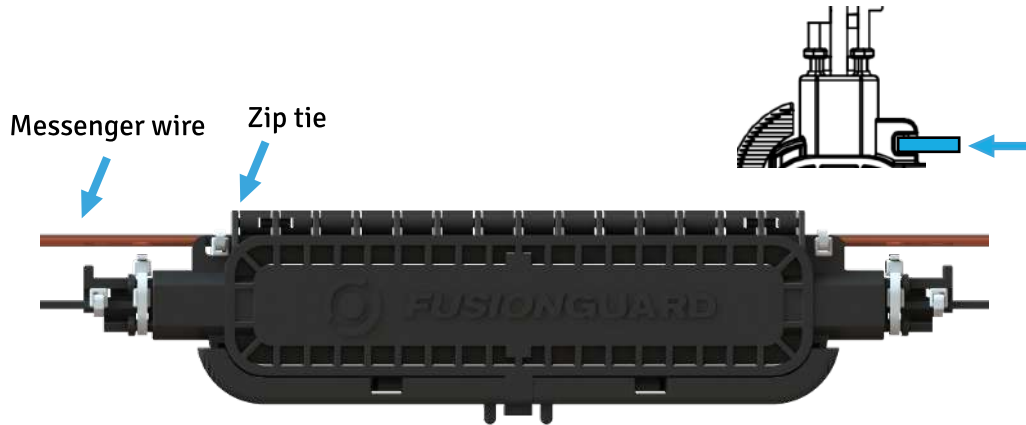
Result:

Result:

AERIAL INSTALLATION

Use a metallic messenger wire already installed:

Two zip ties should remain after the closure sealing. Use them to hang the closure over a messenger wire.

Messenger wire   Zip tie

**Use fiber clamps**

For uses under tension, it is recommended to use HGS-ICO-13-NY Fiber Clamps. (Sold separately)

B) For uses under tension, it is recommended to use Fiber Clamps.

(Sold separately)

NOTE: In this installation, is not recommended to use the zip ties added to the messenger wire.
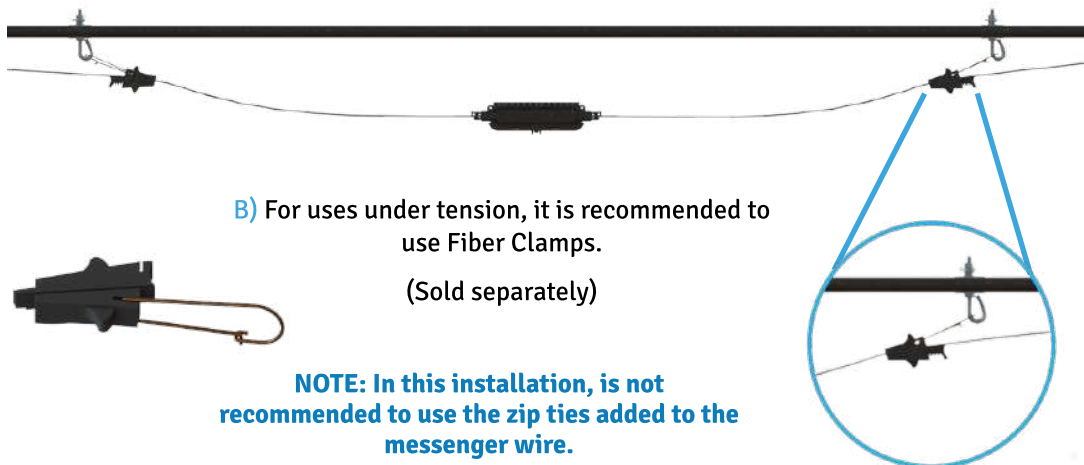
WALL INSTALLATION

Wall mount installation requires the kit: FCLO-HO-01E-WKIT. This kit is included in each configuration.
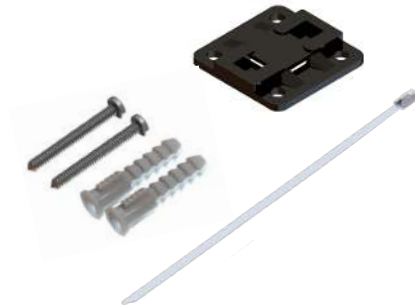
FCLO-HO-01E-WKIT

FCLO-HO-01E-WKIT		
CT-13604	8"X.18" STAINLESS STEEL CABLE TIE	1
1131314	#8 X 1 1/2" ZINC PAN PHILLIPS SHEET METAL SCREW	2
5014-PE-0000-006	CLOSURE MOUNTING BASE FCLO 1	1
PEB8-38	WHITE #8 X 37.5MM WALL ANCHOR	2
Note: Installation tools are not included		

We begin the installation by inserting the wall anchors in their place. Use a 7.5 mm drill bit to drill into the wall.

These anchors will fix the mounting base on the wall. Place them and the screws in diagonal as it shown in the next image.

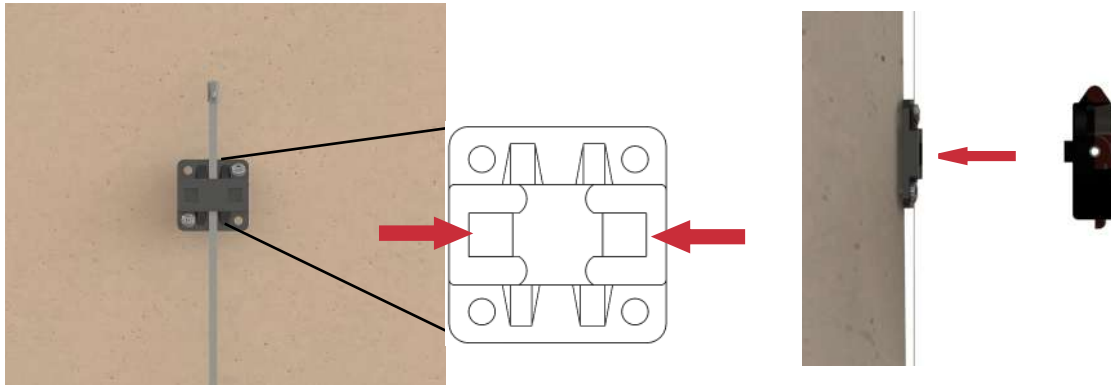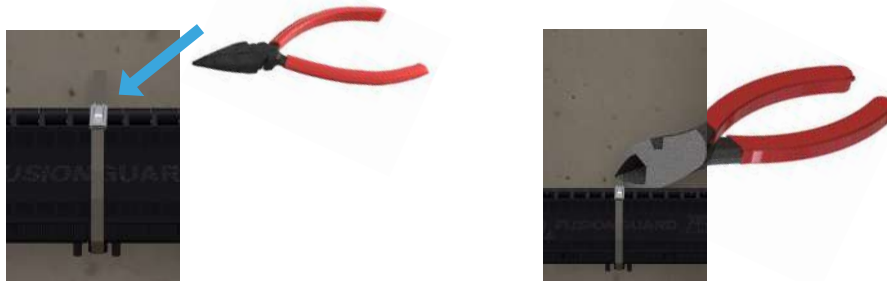Be careful to keep the horizontal leveled.

Horizontal

Next, insert the metal cable tie through the wall base, as shown.

The mounting base has two extrusions that serve as insertion points for the repair splice closure:

Finally, secure your installation by applying tension to the metal cable tie.

Cut the excess of the metal cable tie.

Result: