

# IN-LINE FIBER FLAT DROP CABLE REPAIR SPLICE CLOSURE

#### **GENERAL**

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

List of products that this manual covers:

- FCLO-HO-01E-1-PFMS-FD: HORIZONTAL 1F, 1 MECH SPLICE PRELOADED FD.
- FCLO-HO-01E-1-EMP-FD: HORIZONTAL 1F, EMPTY CONFIGURATION FD.





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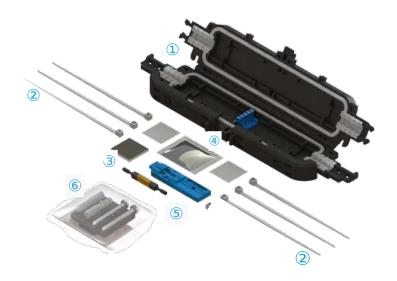


# IN-LINE FIBER FLAT DROP CABLE REPAIR SPLICE **CLOSURE**

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

		FCLO-HO-01E-1-PFMS-FD	
NUMBER	CODE	DESCRIPTION	QTY
1	FCLO-HO-01E-FD	HORIZONTAL 1F SPLICE CLOSURE FD	1
2	EQ-10025BK	BLACK NYLON ZIP TIES UV RESISTANT	6
3	FCLO-CV-20MM	VULCANIZING TAPE 20 MM X 20 MM X 2 MM	1
4	SG-5G	SILICONE GREASE BAG 5 GR	1
5	L925B-KIT	MECHANICAL SPLICE KIT	1
6	FCLO-HO-01E-WKIT	WALL MOUNTING KIT SPLICE CLOSURE	1

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



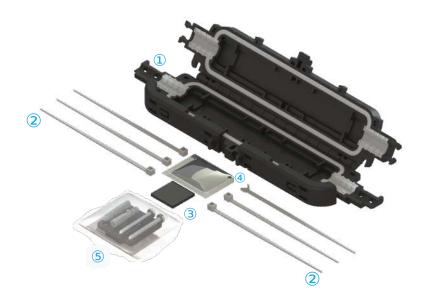


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FCLO-HO-01E-1-EMP-FD			
NUMBER	CODE	DESCRIPTION	QTY
1	FCLO-HO-01E-FD	HORIZONTAL 1F SPLICE CLOSURE FD	1
2	EQ-10025BK	BLACK NYLON ZIP TIES UV RESISTANT	8
3	FCLO-CV-20MM	VULCANIZING TAPE 20 MM X 20 MM X 2 MM	2
4	SG-5G	SILICONE GREASE BAG 5 GR	1
5	FCLO-HO-01E-WKIT	WALL MOUNTING KIT SPLICE CLOSURE	1

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

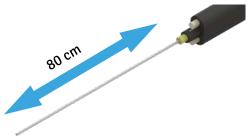




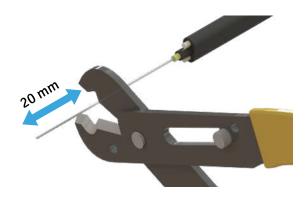
### **PFMS CONFIGURATION**

# STEP 1: CABLE'S PREPARATION FOR SPLICING PROCESS (PFMS FOR FLAT DROP CABLE)

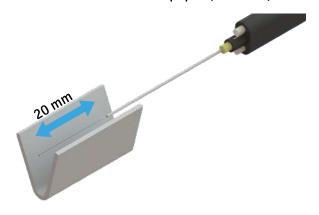
1.1 Make sure you have the right cable to follow the steps. In this case, use **FLAT DROP SIMPLEX** as it shown.



1.2 Use miller 900 um clamp to strip **FD** fiber coating.

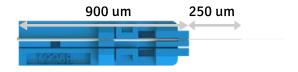


1.3 Check and clean the bare fiber with the dust free paper (Included).

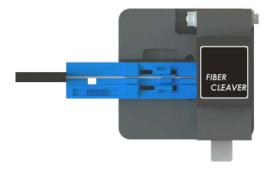




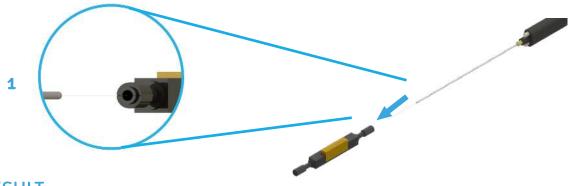
1.4 Place fiber into the cutting jig (Included) as it shown. (For 900 um)\*.



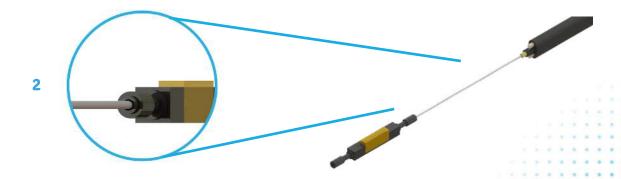
1.5 Place the cutting jig into the fiber cleaver and make the cutting.



1.6 Now that the bare fiber is cut, from the 900 um optical fiber end is inserted into the mechanical splice end until it stops and repeat in both sides.



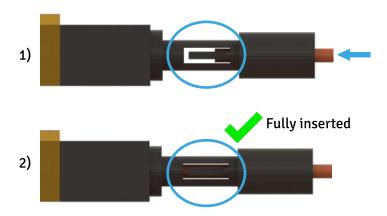
#### **RESULT**



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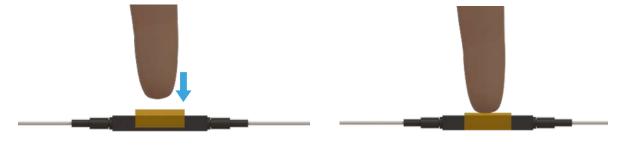
1.7 Insert the tight buffer confirming that it is fully inserted. Refer to the following images:



1.8 Once the fiber is into the mechanical splice, scroll the 900 um holder until it stops as it shown in the next image.



1.9 Press the yellow part until it stops to splice the fibers and to finish this process.

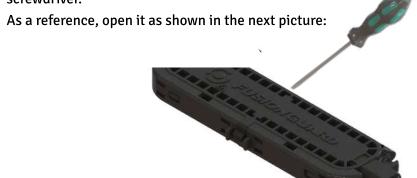






#### **STEP 2: MECHANICAL SPLICE ARRANGEMENT**

2.1 Begin by opening the splice closure, applying enough force on the hinges using a screwdriver.



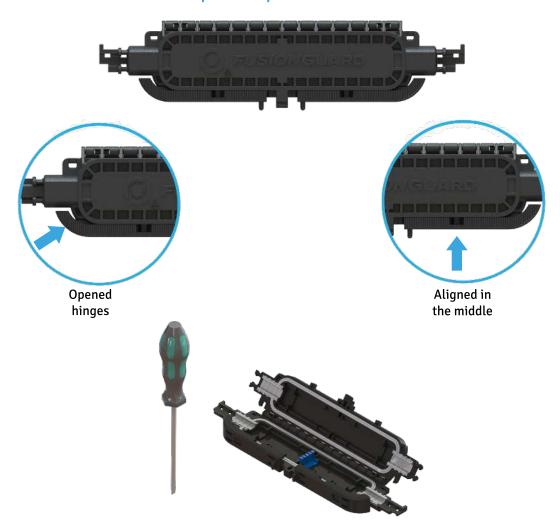


#### **LEFT SIDE**





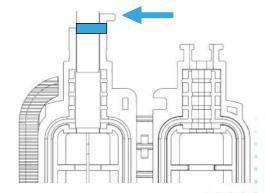
# Opened splice closure



2.2 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).

#### Cut off the surplus.





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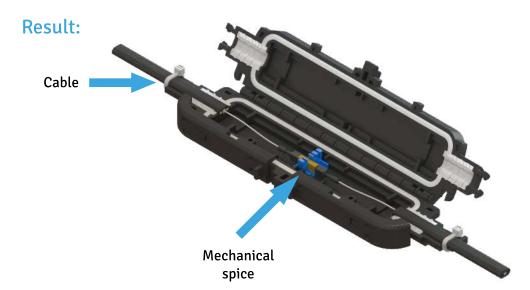


#### **RESULT**



2.3 Once the splice closure is opened, the next step will be holding the cable in place for better mechanical splice arrangement and placing the mechanical splice in the holder as it shown in the next image.

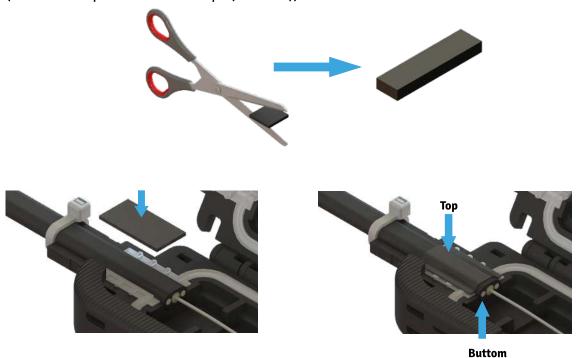






2.4 Once the cable is placed, apply vulcanized tape to the cable on both sides in order to completely seal the entry.

Apply the vulcanized tape to the grommets top to the grommets buttom as it shown. (Half of one a piece vulcanized tape (Included)).



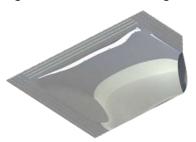
#### **Result:**

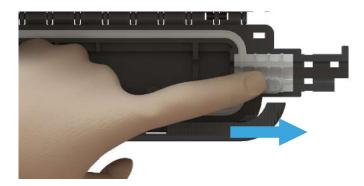


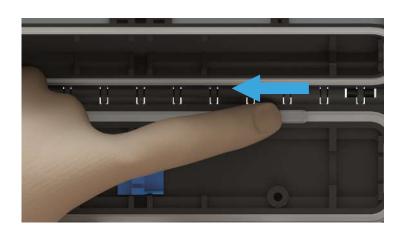
NOTE: Be careful that the splice is correctly located inside the in line splice closure before closing it as it shown in the image:



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





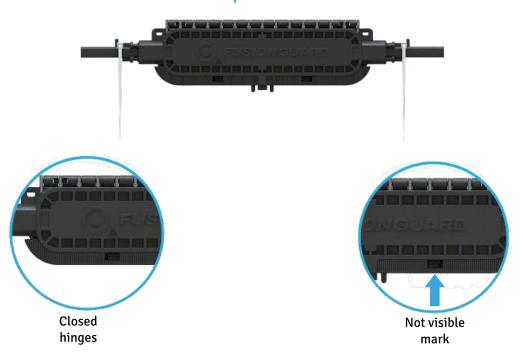




2.6 Proceed by closing the splice closure, putting the base and top together, and pushing the hinges.



# Closed splice closure



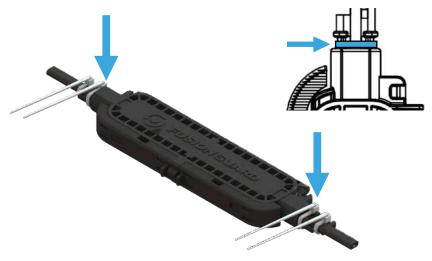


#### **Result:**



#### **STEP 3. LAST ZIP TIES**

3.1 Apply two zip ties, one on each side as shown. This will help by applying force on the sides.



3.2 Finally, cut the remaining plastic of the zip ties. For better results, use a zip tie gun.

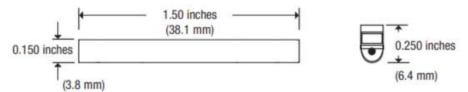


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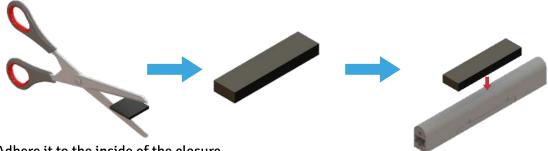
#### **EMP CONFIGURATION**

IN LINE TERMINAL SPLICE CLOSURE is suitable for any mechanical splice closure that accomplish the next measures:



1.1 In each closure is included 2 pieces of vulcanized tape.

Cut the vulcanized tape into 2 parts and add a half to the mechanical splice.



1.2 Adhere it to the inside of the closure.



1.3 Go to step VULCANIZED TAPE AND ZIP TIES to place the mechanical splice into the closure.

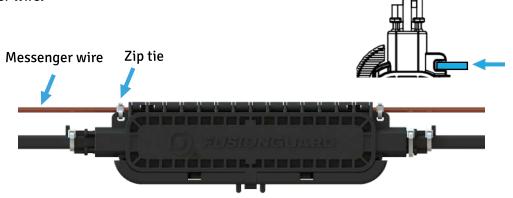




#### **AERIAL INSTALLATION**

#### 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.



#### Use fiber drop clamps

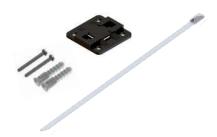
For uses under tension, it is recommended to use AERIALGRIP® Fiber Drop Clamps. (Sold separately)





#### **WALL INSTALLATION**

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

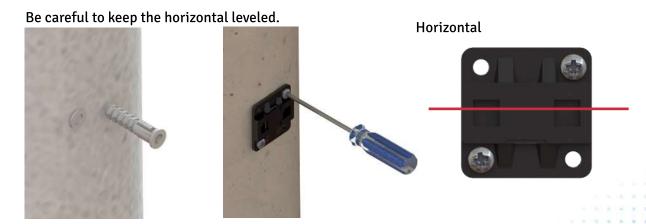


#### FCLO-HO-01E-WKIT

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		

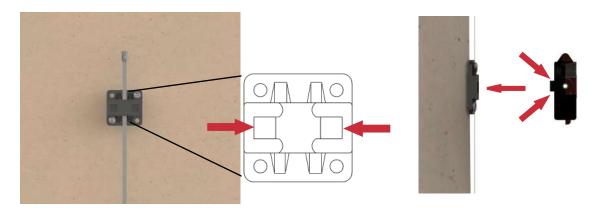
We begin the installation by inserting the wall anchors in their place. Use a 7.5 mm drill bit to drill into the wall.

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



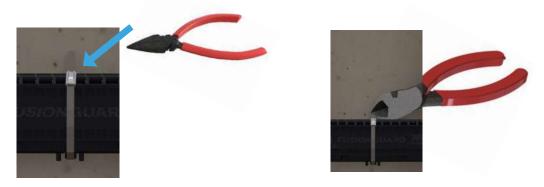


Next, insert the metal cable tie through the wall base, as shown. The mounting base has two extrusions that serve as insertion points for the repair splice closure.



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

Cut the excess of the metal cable tie.



#### **Result:**



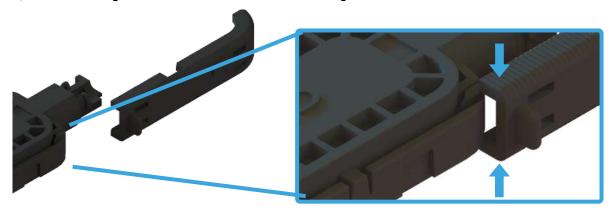


### **HINGES POSITION**

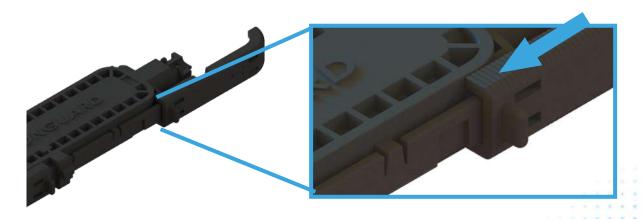
In case of that the splice hinges slips out of place as shown, it can be returned to its place.



1) Insert the hinge into the closure as in the next image:



2) Once in its place, move it over the body of the closure as shown in the following image.





3) Once in its place, move it over the body of the closure as shown in the following image.

