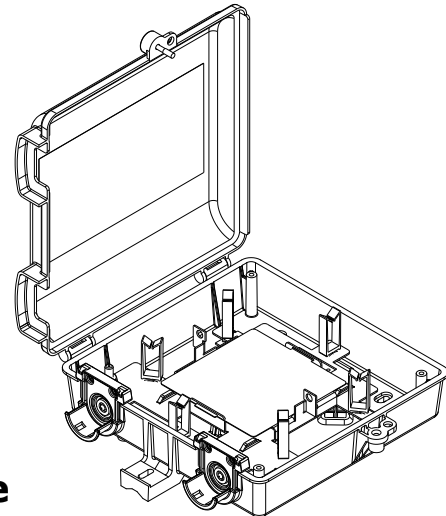


**Warranty:** If this unit fails during the warranty period, contact tii customer service to authorize return. Unit may be returned prepaid.



141 Rodeo Drive  
Edgewood, NY 11717  
Toll Free 888.844.4720  
www.tiitech.com

**Model FET2 Series**  
Enclosure with Storage Fusion Splice Tray



## Installation Note

**CAUTION:** The Product shall be installed in a manner to comply with applicable national and local safety codes.  
**ATTENTION :** Le produit doit être installé de manière à se conformer aux réglementations nationales et locales applicables en matière de sécurité.

## Description

1. FET2 is a patch & splice optical demarcation enclosure.
2. Indoor or outdoor wall mountable with 1-12 fiber capacity.
3. FET2 is available with 250um, 900um or 12-fiber ribbon pigtails.

## Features

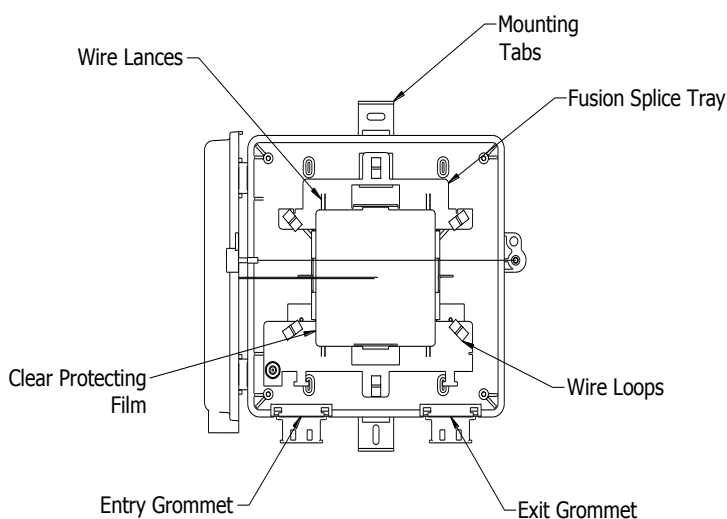


Figure 1

## Installation

The FET2 is flexible and can be mounted first prior to splicing. There is room for approximately 3 meters of slack storage of buffer tube and pigtails. The splice chip can also be installed after splicing is complete and slack stowage.

1. Set a portable splice table as close to final installation site as feasible.
2. Remove pigtail from slack storage up to fan-out kit (or breakout if 900um)
3. Unsnap one side of LGX plate and rotate out of the way of splice area
4. Remove accessory kit of splice chip and zip-ties from under splice tray clear protecting film (Figure 2)

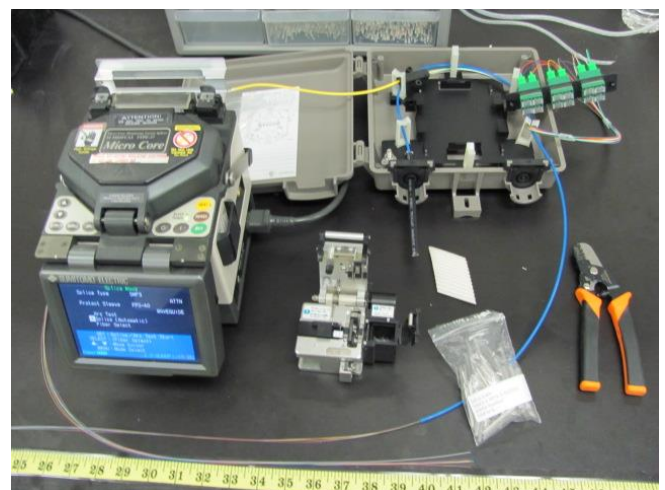


Figure 2

## Cable Preparation

1. Remove feeder cable jacket 54 inches
2. Slit cable entry grommet and feet buffer tube through grommet (Figure 3)

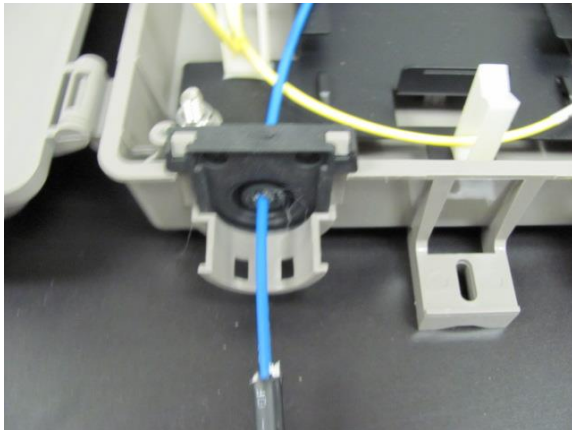


Figure 3

3. Secure cable jacket to "T" shaped tie down using supplied zip-tie
4. Ground armored or tone able cable using supplied ground stud (Figure 4)

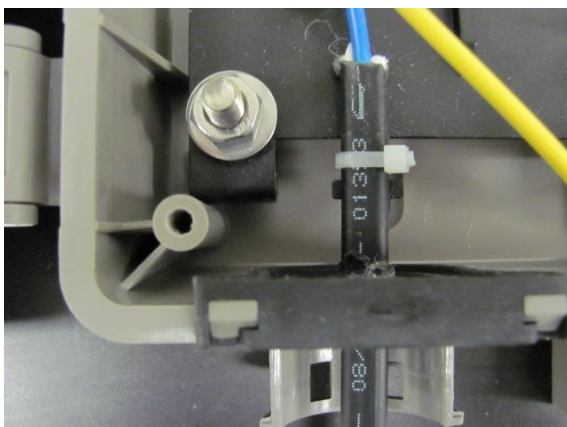


Figure 4

5. Route excess buffer tube through first 4 cable management clips so buffer tube is near fusion splicer (Figure 5)

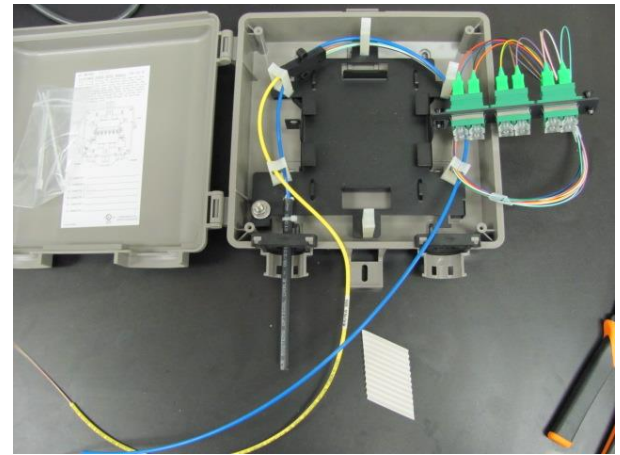


Figure 5

6. Route pigtails through cable management clips so exit enclosure opposite side vs. buffer tube in opposite routing direction
7. Cut pigtail to match length of buffer tube (Figure 6)

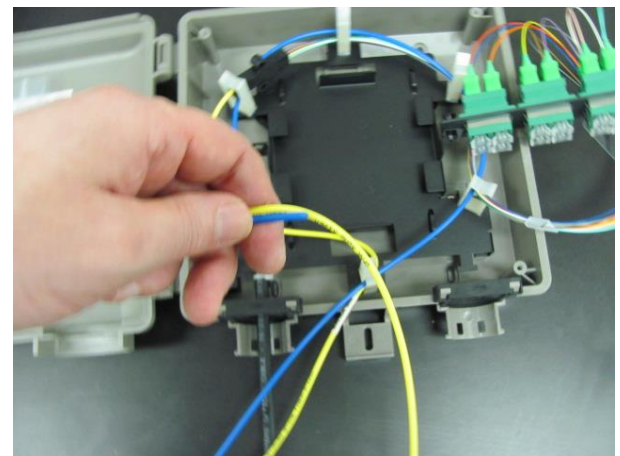
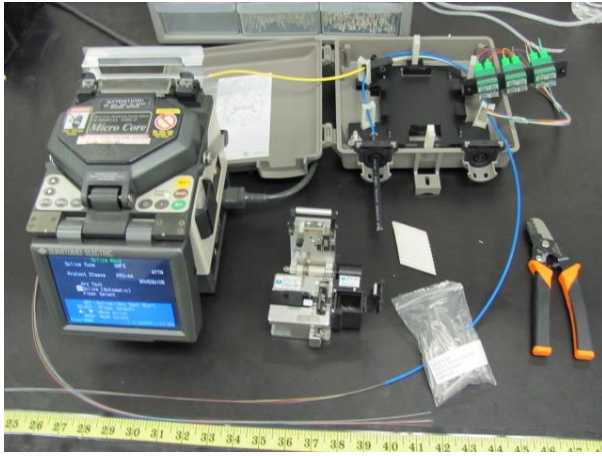


Figure 6

8. Measure and remove buffer tube exposing 24 inches of fiber
9. Remove Gel (if any) or any water blocking yarn
10. Measure and remove pigtail jacket exposing 24 inches of fiber
11. Cut Kevlar flush with jacket

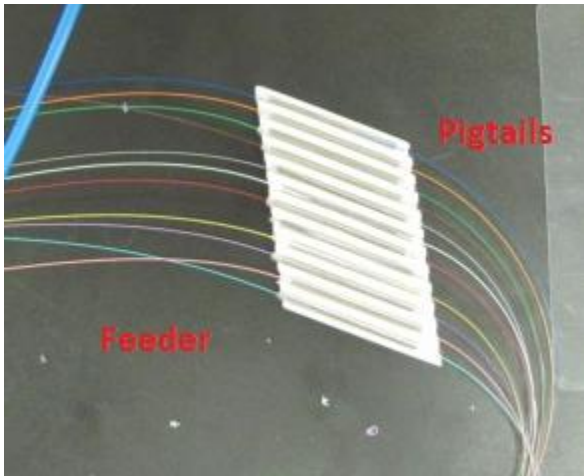
## Fusion Splicing

1. Prepare workspace for splicing (Figure 7)
  - Splice chip
  - Alcohol & wipes
  - Fiber stripper
  - Splicer
  - Cleaver
  - 40x3mm standard splice sleeves



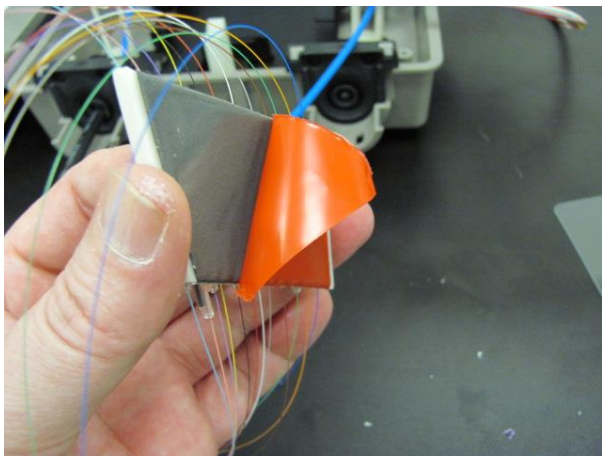
**Figure 7**

2. Splice each fiber and place in splice chip holder
3. Fibers from buffer tube should approach from left as pictured, pigtails from right side of chip (Figure 8)



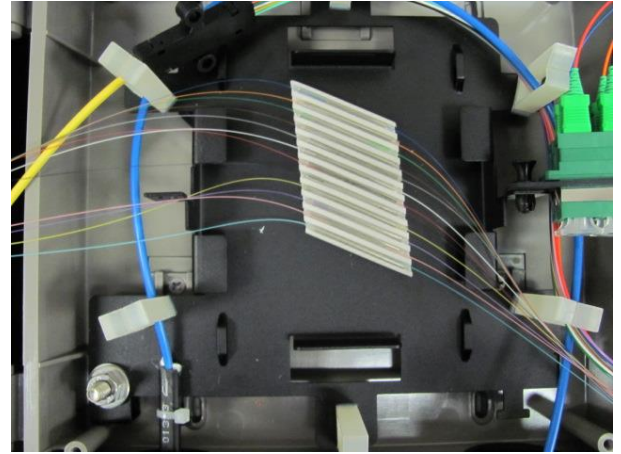
**Figure 8**

4. Remove adhesive backing from splice chip holder (Figure 9)



**Figure 9**

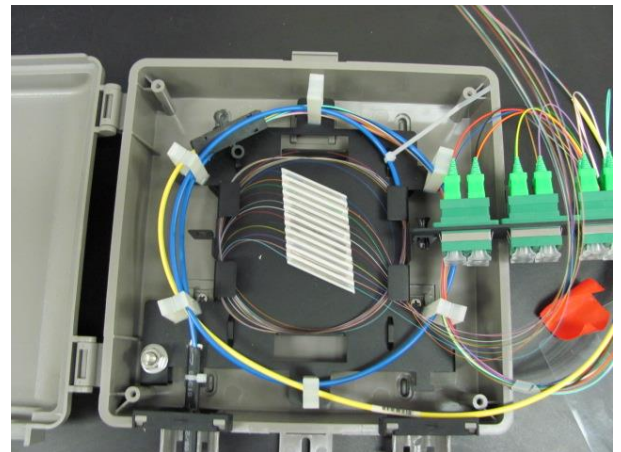
5. Place splice chip holder inside integrated splice tray approximately 1/2 inch from top of tray centered left to right, leave enough room between chip and tray for several loops of bare fiber groups in tray
6. The splice chip is angled to reduce fiber bend radius and aid in splice tray slack storage in a small space (Figure 10)



**Figure 10**

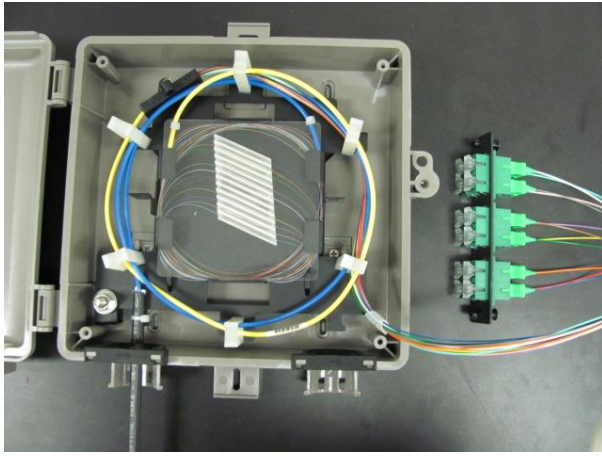
## Slack Storage

1. Coil buffer tube strands around splice tray and store slack in cable management clips
2. Secure buffer tube to top right lance with provided zip-tie (Figure 11)



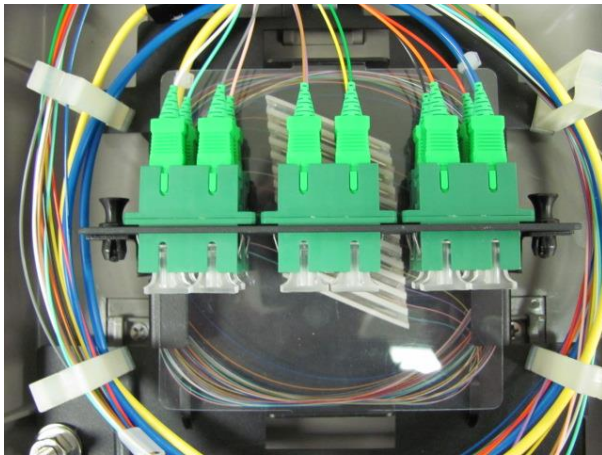
**Figure 11**

3. Remove adapter plate if necessary
4. Coil pigtail strands around splice tray and store slack in cable management clips
5. Secure jacket of pigtails to top left lance with provided zip-tie
6. Install splice tray protective cover
7. Dress and secure any slack cable (Figure 12)



**Figure 13**

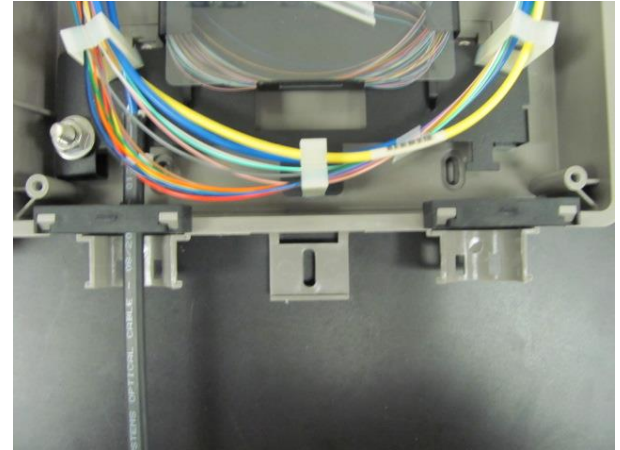
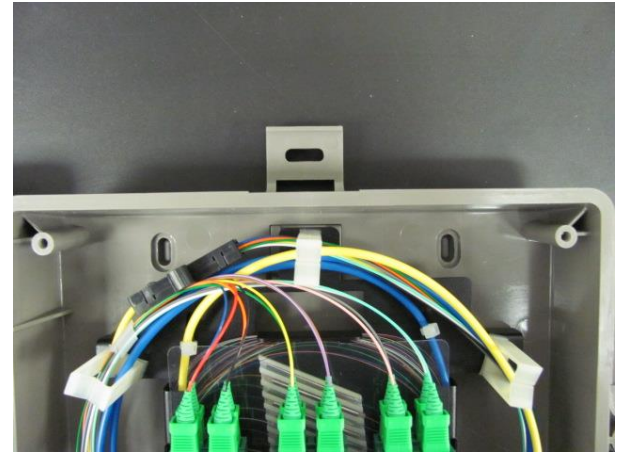
8. Install clear protecting film and adapter plate (Figure 14)



**Figure 14**

## Mounting

1. Install FET2 in desired wall mount location utilizing the provided top and bottom mounting tabs
2. Coil and secure to the wall any excess feeder cable below FET2 entry (Figure 15)



**Figure 15**

## Testing

1. Clean and inspect any ferrule prior to mating, contamination can damage ferrule end face
2. Adapters include clear caps to assist if VFL fiber identification
3. Typical insertion loss of factory terminated pigtails and fusion splice should be expected to be 0.25 – 0.5 dB
4. Typical reflectance -55 dB UPC
5. Typical reflectance -65 dB APC