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Model FET3G Series 24F Fiber Distribution Terminal Installation Note

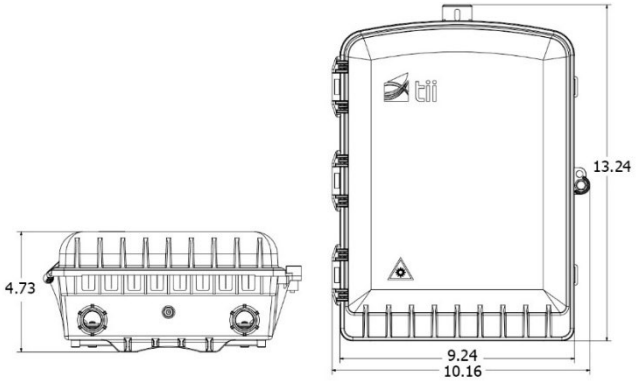
Description

The FET3G fiber distribution terminal enclosure is a compact unit which features connectivity between the OSP fiber cables and customer fiber cable or drops. This weatherproof design is ideally suited for indoor/outdoor pole or wallmount installations and is configured for up to 24 patch and splice fiber terminations.

Contents

- FET3G enclosure
- Cable gland
- Zip ties
- Splice chips
- Mounting screw

Dimensions



Dimensions shown in inches

FET3G Features

1. SC Adapter field - for interconnection between feeder and distribution fibers.

2. Slack Storage - The FET3G is designed to allow for storage of 3 meters of feeder cable inside the unit with tie-downs to secure the cable. It also can store 3 meters of distribution cable or 24 MDU fiber drops.

3. Output Fiber Management – Provides a method of routing fibers to the adapter field.

4. Interior Grounding Lug – Provides a bonding and grounding point for all dielectric fiber cables.

5. Entry Ports – Equipped with Bottom entry ports to allow for use of input/output cable configurations.

6. Entry & Exit Grommets- provides entries for MDU fiber distribution drops.

7. Door – The door automatically latches when the FET3G door is closed, it is opened with a standard 216 can wrench.

Installing the FET3G Using Optional Wall Mounting Bracket

The FET3-WMKIT is a wall mounting bracket for the FET3G.

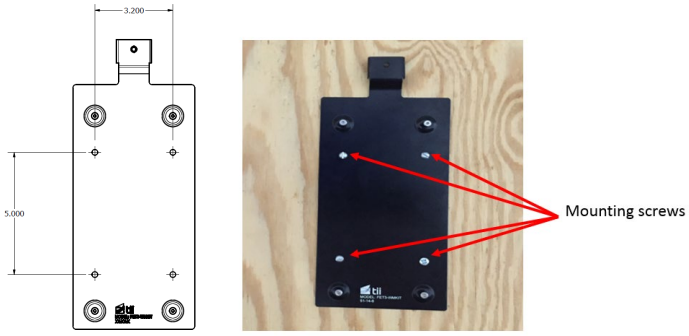
Contents

- Wall mounting bracket
- Mounting screws

1. Verify contents and inspect for damage

2. Select a vertical wall surface with adequate clearance from electrical light fixtures, equipment and power circuits.

3. Mark the wall according with the dimensions below:



Dimensions shown in inches

4. Install appropriate wall hanging hardware and secure the wall mounting unit.

5. Install the FET3G on the wall mounting bracket

6. Install a screw in the mounting tab of the FET3G.

Wall Mounting the FET3G

1. Verify contents and inspect for damage

2. Select a vertical wall surface with adequate clearance from electrical light fixtures, equipment and power circuits.

3. Mark and install appropriate wall hanging screws and secure the unit. This page has 4 crosshair features that can be used as a template for locating the screws.

4. The FET3G 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.

5. Once the FET3G is installed, set a portable splice table as close to final installation site as possible.

Note: Outer door is removable if needed to do installation.

6. Remove the middle tray from the FET3G before installation of cable.

Cable Preparation

1. Once the FET3G is installed & the work table is ready, begin your cable preparation. Remove 3 Meters of feeder cable jacket.

2. Cut strength member for cable installation.

3. Install cable gland before installing cable.

4. Route feeder cable through the left hand port then terminate the strength member using a Phillips screwdriver, secure cable to the “T” shaped tie down using a cable tie.

NOTE: If installing armored or toneable cable, use supplied ground stud to bond and ground.

1. Route excess buffer tube clock wise through 4 cable management clips in base.

2. Leave enough loose buffer tube to reach your fusion splicer. This will be based on the distance it is away from the FET3G.

3. Remove Gel from bare fibers if cable is gel filled.

4. Secure pigtails using tie wrap and route and secure buffer tube with a tie wrap. Measure and cut fibers to length then prepare for fusing.

Fusion Splicing

- Prepare workspace for splicing
- Alcohol & wipes
- Fiber stripper
- Splicer
- Cleaver
- 40x3mm standard splice sleeves

1. Remove feeder & distribution fiber slack from splice trays and place next to fusion splicer.

2. Splice each fiber and place in splice chip holder. Fibers from buffer tube should approach from left, pigtails from right side of chip.

3. Dress and secure slack feeder fiber strands and fiber pigtails around splice tray in cable management features. Reinstall middle plate in base.

Drop Installation and Test

1. Clean and inspect any ferrule prior to mating, contamination can damage ferrule end face.

2. Connect drop fibers to desired SC adapter and strain relive to T-bar strain relief features using a tie wrap.

3. Adapters include clear caps to assist if VFL fiber identification

4. Typical insertion loss of factory terminated pigtails and fusion splice should be expected to be 0.25 – 0.5 dB

5. Typical reflectance -55 dB UPC

6. Typical reflectance -65 dB APC

7. Record customer information on door labels, close unit and secure.

Full Install guide at:

http://www.tiitech.com/repository/installationsheetlibrary/FET3T-24_Full_InstallNote.pdf