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

tii technologies inc

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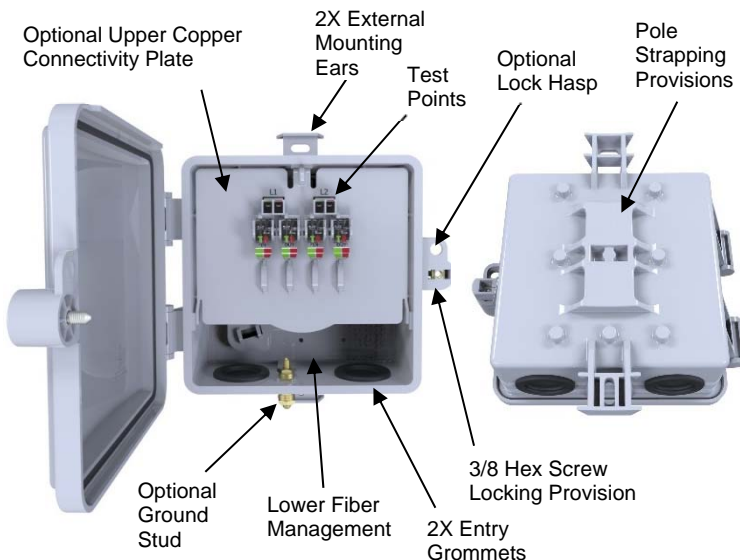www.tiitech.com

Model 171F Series
Fiber Transition Enclosure

Installation Note
CAUTION: The Product shall be installed in a manner to comply with applicable national and local safety codes.

Description

1. The TII 171F Fiber Transition Enclosure is a weather resistant compact fiber and copper connectivity enclosure.

2. Two rubber grommets are located at the bottom of the base; multi-hole cable glands are optionally available.

3. The TII 171F is optionally equipped with SC adapters to allow fiber optic connections, and four Tool-less IDC connectors for connecting two copper wire pairs.

4. The TII 171F also has the ability to join two Hardened Fiber Cables (not included) in order to extend overall cable length.
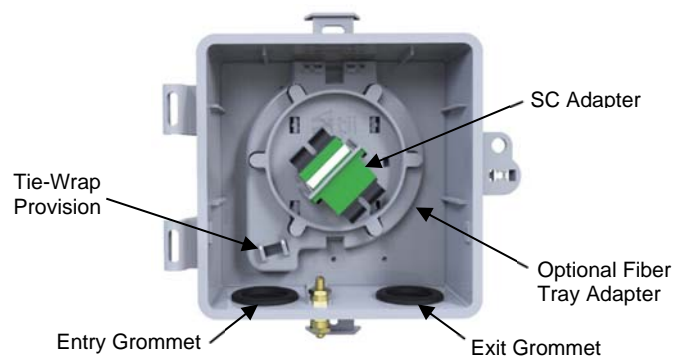

Figure 1

Enclosure Installation

1. Utilizing the external mounting ears, mount the 171F enclosure to a flat, suitable surface using the appropriate hardware (screws not included) so as to minimize the possibility of dirt or moisture getting into the enclosure. Recommended screw size: #10 x 1 ½" pan head self-tapping to be used in conjunction with plastic wall anchors (if applicable).

2. In addition to external mounting ears mentioned in Step 1, there are optional provisions for pole strapping provided on the rear of the enclosure (See Figure 1).

3. If applicable, ground the 171F enclosure to a reliable earth ground.

4. You are now ready to install the fiber and copper connections by following the instructions below.

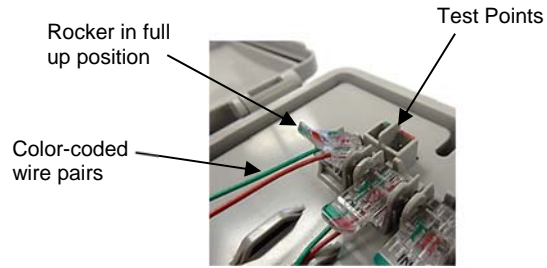## Optional Fiber Tray Installation

Figure 2

1. This unit allows for additional slack management and connector configurations utilizing the optional FP Series Fiber Tray Adapter. (See Figure 2).
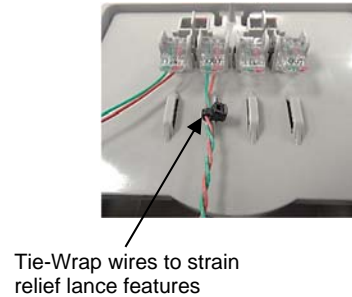
2. Field terminate the fiber drops, leaving the amount of fiber slack required for the application.

3. Slice or punch a hole through the left grommet and guide the Fiber Drop Cable through the entry grommet.

4. If applicable, ground any cable armor or toneable members to internal portion of the optional Ground Stud.

5. Secure the fiber drop to the Tie-Wrap provision of the fiber tray.

6. Wrap excess fiber drop slack clockwise around the fiber tray.

7. Insert the fiber drop SC connectors into the upper port(s) of the provided SC Adapter.

8. Punch a hole through the right grommet and guide the connectorized fiber output through the exit grommet.

9. Connect the fiber outputs to the lower port(s) of the SC Adapter.

Optional Copper Wire Installation

1. This unit allows for two pairs of copper connectivity management, utilizing an optional Copper Connectivity Plate (See Figure 1). Tool-less IDC connections are provided to electrically connect two wire pairs, and each pair has easily accessible test points.

2. Cut a hole through the right grommet and guide the copper input and output wires through the grommet, or use optional slit cable gland.

3. Untwist approximately ¾" of each wire pair, and clean cut the end of each copper wire.

4. Do not strip wire insulation.

5. Lift the rocker to the full up position. Hold the wire pair to be terminated between thumb and index finger. Insert wires into rocker wire guides simultaneously until they bottom-out. While holding wires in position, terminate rocker by lowering to the full DOWN position (See Figure 3).

6. Visually verify through the clear rocker paddle that the wires are fully seated and bottom-out at the base of the rocker.

7. Terminate any additional input or output pairs as required by following the above steps.

8. Test for continuity by attaching Test Clips (not Included) to appropriate paired test points (See Figure 3).

9. To keep wire pairs organized, use tie-wraps to hold any connections and cables to the strain relief lances (See Figure 4).
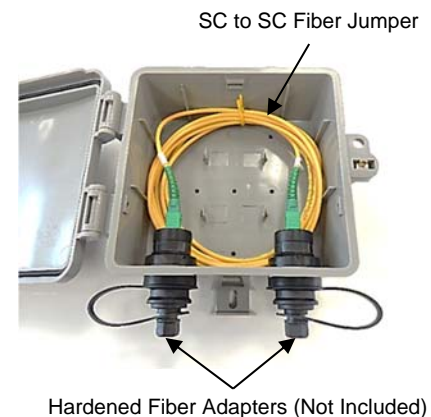
Rocker in full up position

Test Points

Color-coded wire pairs

Figure 3

Tie-Wrap wires to strain relief lance features

Figure 4

Joining Two Hardened Fiber Cables

1. Remove both lower grommets supplied with the 171F enclosure.

2. Install two hardened fiber adapters (not included) in each lower hole locations as per manufacturer's instructions.

3. Install a short SC to SC fiber jumper (not included) in the interior of the box to join the two hardened fiber cables (See Figure 5).

SC to SC Fiber Jumper

Hardened Fiber Adapters (Not Included)

Figure 5

CAUTION: After cable installation, any gaps in grommets must be sealed with Silicone RTV to maintain weather resistance of the enclosure.

4. Close the door of the outdoor enclosure and tighten the 3/8" Hex Screw using a standard 216 can wrench. Be sure not to over-tighten the screw.

5. The optional lock hasp may also be used for added security.