OOWT

Optimus Outdoor Wall Terminal:

48F and 72F

100% Made in USA

INSTALLATION INSTRUCTIONS

CONTENTS

1. Introduction

Optimus Outdoor Wall Terminals (OOWT) are rugged fiber terminals which are designed to meet NEMA 4 environmental performance standards and are suitable for residential MDU and Fiber to the Business (FTTB) applications. The OOWT comes with a demarcation panel which separates the construction vs. drop side of the field installation. The included Universal Splice Tray (UST) provides high-density single-fiber and mass fusion splicing and is available with preloaded, pre-connectorized splitters.

24 Splice Tray	36 Splice Tray	Splitter Tray	Ribbon Splice Tray

All specifications subject to change without notice.

INSTALLATION INSTRUCTIONS

2. Recommended Tools

- Safety glasses
- Gloves
- Other Personal Protective Equipment as required
- Electrician scissors
- Side-angle cutters
- 216 Tool (can wrench)
- Cable knife
- Tape measure
- Rotary Buffer Tube Ringer
- Mid-Span Access Tool
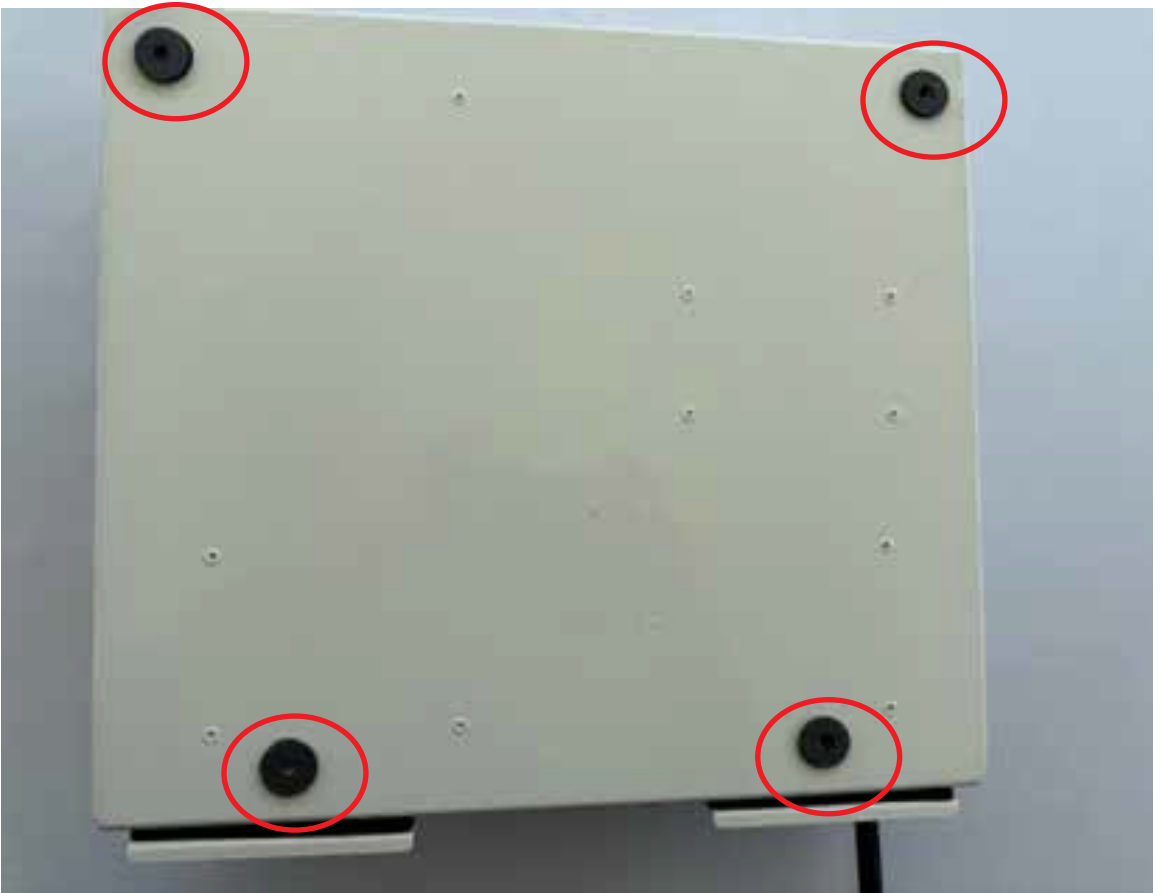- Cleaning solvent/degreaser
- Splicing equipment
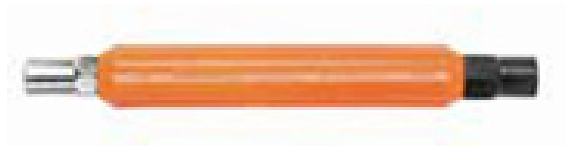
3. Installation Kit

- 2 – 9"x 5mm transition tubes
- 2 – 99% alcohol wipes
- 8 – 4" black zip ties for trays
- Blue felt for buffer tubes
- 1/4"- 20 bolt and washer for bracket installation when needed
- 12 fiber single splice holder
- Three position splitter holder
- Cable Gauge
- Wire Loom
- Bonding and grounding kit (optional)
- Weather Seals for fastener holes

INSTALLATION INSTRUCTIONS

4. Mounting the closure

1. Use #10 mounting hardware specific to the surface being mounted onto.
2. Prior to installing screws, peel and stick the weather seals over the external pilot holes.

5. Cable Preparation

A. For mid-span access:

1. Create a loop in the cable that will allow for ring cuts on both sides of the loop. The opening of the cable should be 96" total.
2. At the center of the loop remove 4" of sheath from the cable exposing the buffer tubes and locate the pull strings used to rip the sheath.
3. If possible, try to locate and center the RO, reverse oscillation, point of the cable and make this the center of the loop. This will allow for easier unwrapping of the buffer tubes.
4. Make a ring cut on both sides of the loop, 48" from the center of your loop.
5. Notch the sheath with a pair of electrician scissors where the pull string is located to help start the cutting of the sheath with the pull string.
6. Cut the pull strings in half and use each pull string to cut through the sheath on both sides down to the ring cut made in step 4 and cut the pull strings cleanly away from the cable.
7. Remove the sheath and any binder cords, aramid yarn, or water- swellable tape that may be on the buffer tubes.
8. Based on Engineering design, identify which buffer tube will be used at this time as the feeder and carefully unwrap from the group using the Reverse-Oscillation Point to assist with counter- wraps. Separate this buffer tube or ribbon all the way back to the sheath opening.
9. Utilizing the Reverse-Oscillation Point (or counter-wrap) unwrap the central strength member, if present, keeping all other buffer tubes wrapped up neatly.
10. Cut both sides of the central strength member 5" from the sheath opening. These will be trimmed down during cable installation.

B. For Cable Ends:

1. Measure the cable end to be opened with at least 48" of buffer tube remaining.
2. Make a ring cut where the sheath will be removed, and the buffer tubes will be exposed.
3. Remove two inches of sheath from the end of the cable.
4. Notch the sheath where the pull strings are located to assist with the sheath opening.
5. Pull both pull strings from the end of the cable down to where the ring cut was made and cleanly cut away the strings at the sheath opening.
6. Remove the sheath and any binder cords, aramid yarn, or water- swellable tape that may be present in the cable.
7. If present, unwrap the central strength member from the end of the cable back to the sheath opening keeping all buffer tubes cleanly wrapped together.
8. Cut the central strength member 5" from the sheath opening. This will be trimmed down during cable installation.

6. Opening Closure

1. Rotate the lock, 1/4 turn counterclockwise, using the 3/8" end of a can wrench.
2. (Optional) the exterior door can be lifted off the hinges for better access.

3. Rotate the lock, continuously, in a counterclockwise rotation, using the 7/16" end of the can wrench.
4. The panel covering the construction side of the closure is on tabs, not hinges. Open the door 90 degrees then lift upwards to remove the panel.

INSTALLATION INSTRUCTIONS

7. Installing Fiber Optic Cable

1. Using a razor knife, cable knife, or scissors, cut a slit in the grommet slightly smaller than the width of the cable.
2. Carefully push the cable through the grommet, supporting it slightly to keep the grommet in place.

3. Line the central tension member (CTM) up with the CTM clamp.
4. Be sure the cable sheathing is above the cable tie location before cutting the CTM.

INSTALLATION INSTRUCTIONS

Installing Cable (continued)

5. Install tension member, fasten cable tie, then tighten the CTM using the 3/8" end of the can wrench.

6. Temporarily remove the black hook and loop tray strap from the basket area.
7. Route the input fiber to the right side of the basket, rotating in a counter clockwise rotation.
8. Separate the tube, or tubes to be spliced in the tray.
9. Bring the input buffer tube to the right side of the tray, then mark them using a marker slightly above the cable tie locations.

INSTALLATION INSTRUCTIONS

Installing Cable (continued)

10. Open the buffer tube per company standards.
11. Apply a square of felt tape to the end of the buffer tube.
12. Cable tie the buffer tube into place, then trim the cable ties.
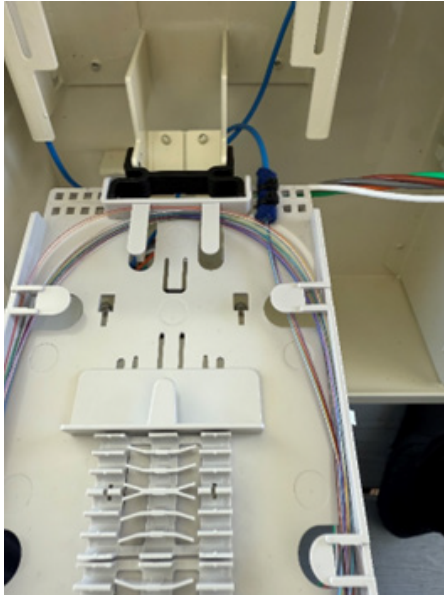
13. Once the active buffer tubes are secured to the tray, coil up any remaining buffer tubes into the slack basket, then secure with a cable tie.

Installing Cable (continued)

14. Splice to splitter, pigtails, or fanout kit.
15. Reinstall black, hook and loop tray strap, and secure tray.
16. Reinstall the interior panel, and secure using the 7/16" end of the can wrench.
17. Reinstall and lock the exterior door.

8. SC/APC routing

A. If the wall terminal has preinstalled splitters, the SC/APC connectors will be routed to the demarcation panel for you.

B. If splicing pigtails, or fanout kits:

1. Install them in the protective yellow wire loom included in the installation kit.
2. Route the yellow wire loom out of the left side of the tray, in a counter-clockwise rotation, ending on the outside of the slack basket, next to the demarcation panel.
3. Secure with a cable tie.

INSTALLATION INSTRUCTIONS

9. Demarcation Panel removal and cleaning

The easiest, and safest way to clean the SC/APC connections in this wall terminal is to use a short, one-click, ferrule cleaner. If your cleaner won't fit in the wall terminal:

1. Locate the two black pushpins on the distribution side of the wall terminal.
2. Pull back on the pins slightly to release.

3. Cut the cable tie holding the yellow wire loom to the side of the slack basket.
4. Carefully rotate the panel towards you being sure not to damage the SC/APC leads or connectors on the back side.

5. Clean connections.
6. Reinstall demarcation panel.
7. Push the pushpins back down to secure the panel.
8. Cable tie the end of the yellow wire loom to the side of the slack basket.

INSTALLATION INSTRUCTIONS

10. Optional Conduit Panel Installation

1. Remove and keep the two nuts above the grommet to be replaced with the conduit connector plate.

2. Remove the standard grommet plate.
3. Using a step drill bit, drill up to two holes, up to 1" diameter, using the small indentions for alignment.
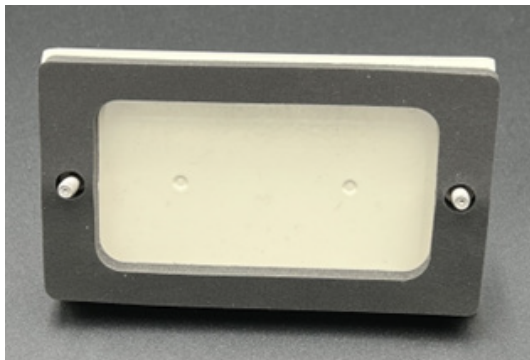
4. Install the conduit connectors into the holes.
5. Reinstall into the OOWT using the nuts remaining from the standard grommet.

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