CORNING

Pushlok™ Multifiber Tether Repair Kit

P/N 000-098-AEN, Issue 1

1. Tools and Materials Required

- Pigtail
- Corning closure
- Fusion splicer and tools to prepare and splice fiber cable

2. Field Repair Process

Step 1: Cut the damaged tether as close to the OptiTip connector or cable damage as possible.
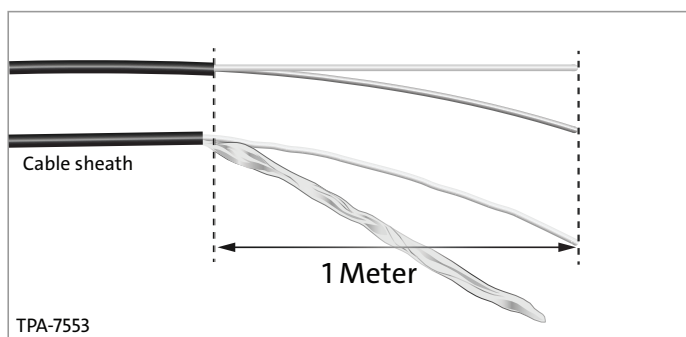
Step 2A: Remove 39 inches (1 meter) of cable sheath.

Figure 1   Corning OSC30 Internal Components

Figure 2   Cable Measurement

Step 2B: For cables with cable strength members (CSMs), align the end of the cable sheath with the end of the "T" and trim the CSMs flush with the end of the wall. Remove any plastic or rubber from the CSMs.
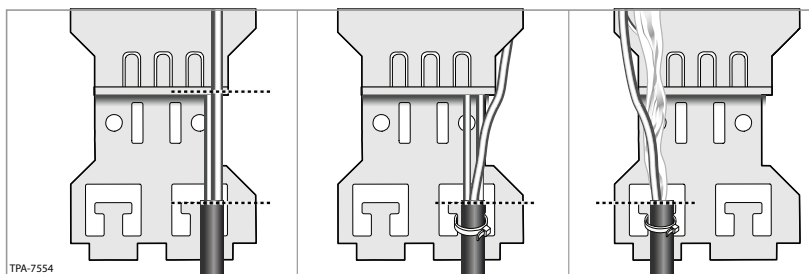
Step 2C: Line up the end of the cable sheath with the end of the "T." Secure the cable to the "T" with the white cable tie.

Figure 3   Measuring CSMs   Figure 4a and 4b   Tie-wrap cable to "T"

Step 3:   Place braided tubing on tether ribbon. After placing tether into OSC30 tray, slide tubing into the cable as shown in Figure 6.
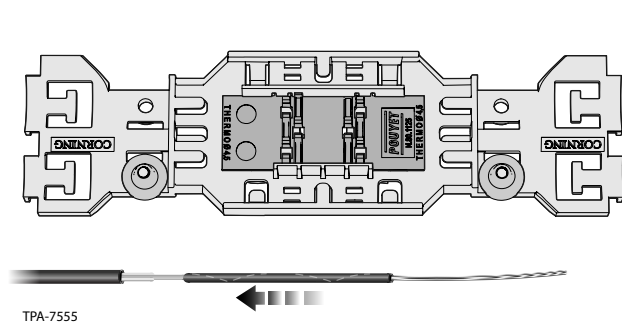

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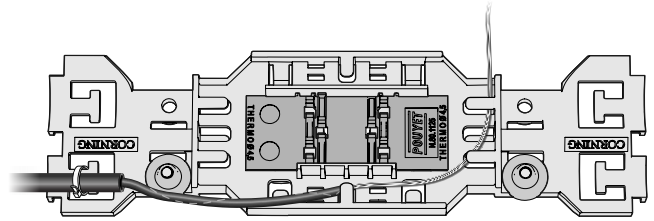Figure 5   Place the braiding tubing

Figure 6   Slide the braiding tubing inside the tether cable

IMPORTANT: *When ribbonizing single fibers from buffer tubes filled with water-blocking gel, it is critical to clean the fibers thoroughly. Otherwise it is difficult to successfully ribbonize and then splice the fibers.*
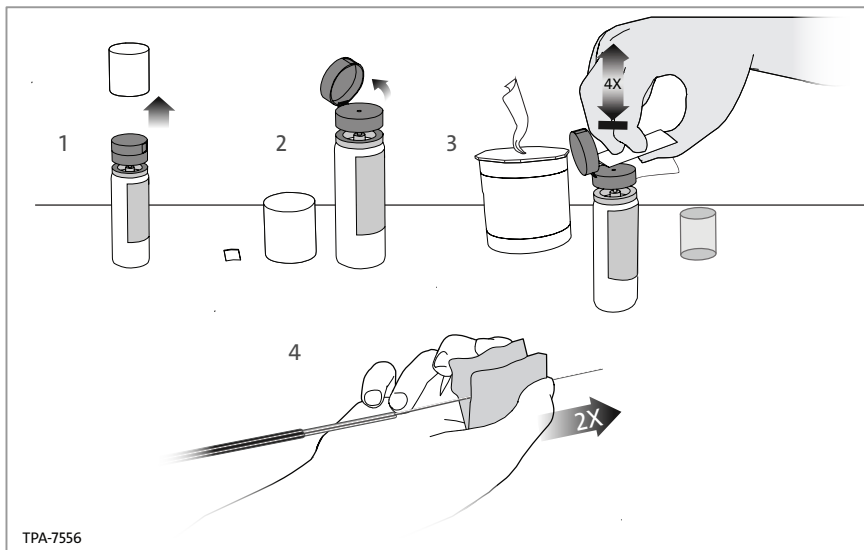
Step 4:   Clean the fibers.

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Figure 7   Cleaning gel covered fibers

Step 5:   Load the prepared replacement tether into the closure. For example, in Figure 8 below, the damaged cable had single fibers and the replacement cable had ribbon fiber.
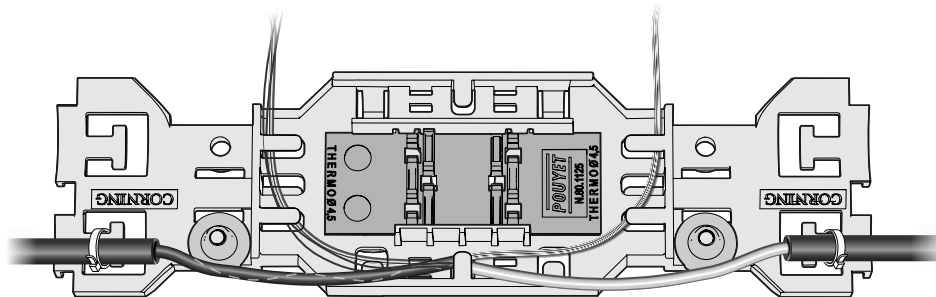

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Figure 8   Both tether cables loaded in closure

Step 6: Regardless of ribbonizing method, ensure that fibers are in correct order and that the ribbon integrity holds.

When using the Corning Fibrlok Multi-Fiber Stripper 2630, leave approximately 1/2" (13mm) of unbonded fibers.
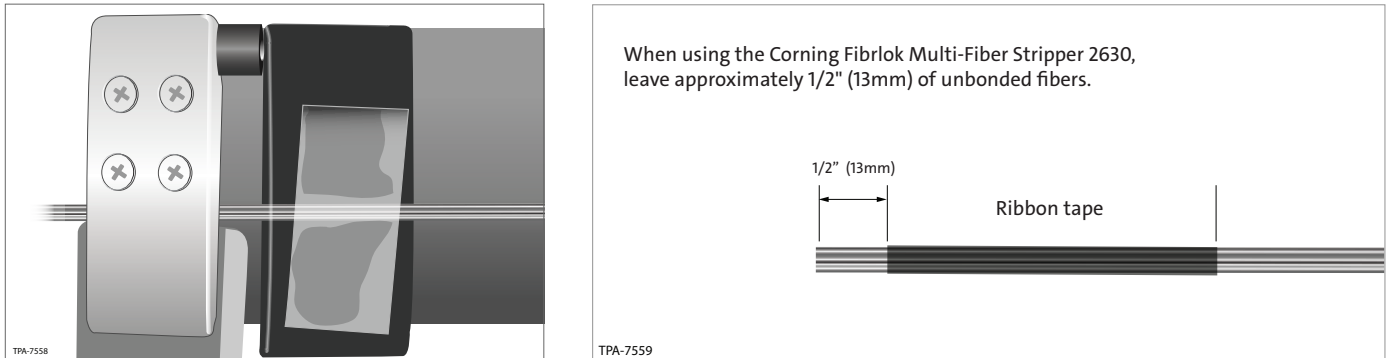
1/2" (13mm)

Ribbon tape

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Figure 9   Maintaining ribbon integrity

Step 7: The inner tray will hold up to 36" of ribbon or loose tube fiber. To cut to length, route fiber to the postion in Figure 11, pull fiber 1/2" forward and cut, prepare, and fusion splice the fiber ends. Place splice protector over splice and place in heatshrink oven when splice is complete. After splice protector is fully melted, allow time for it to cool down before moving.
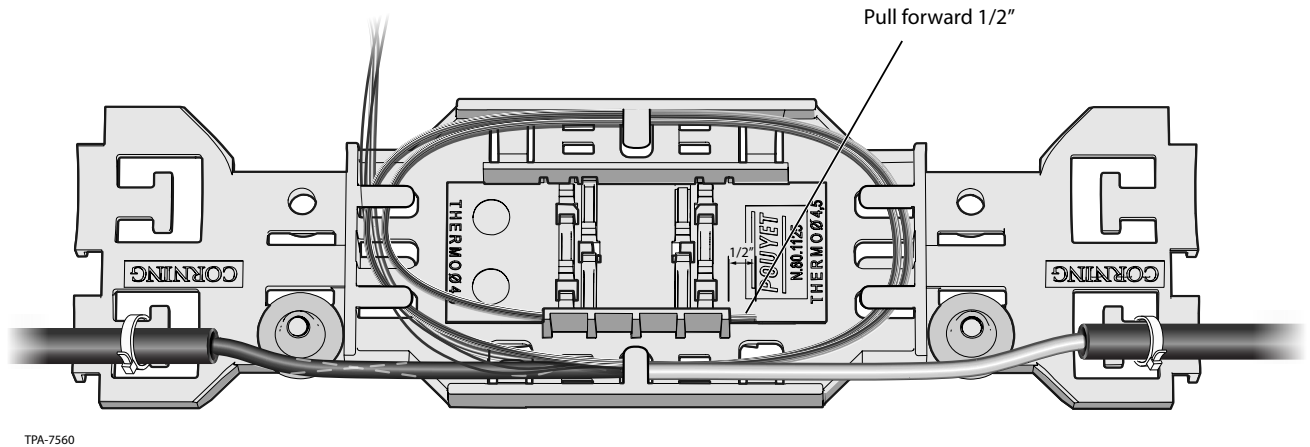

Pull forward 1/2"

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Figure 10   Measuring fiber for splicing

Step 8: Route fibers in tray and place splice protector in holder provided. There is room for 12 single-fiber splices or one ribbon splice. Then place tray assembly in closure and tie-wrap cables to outer "T" on closure, securing the tie-wrap with tie-wrap tensioning tool.
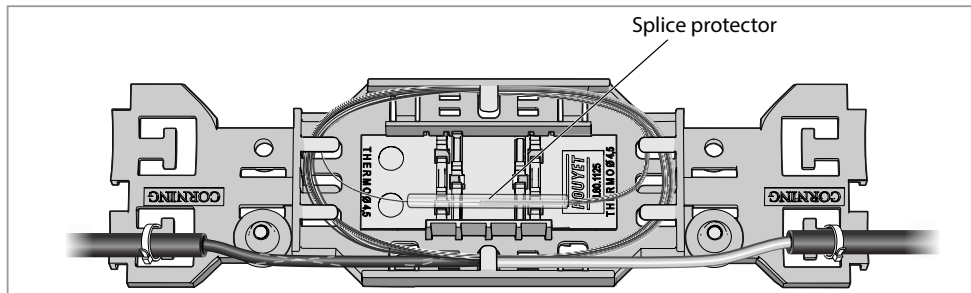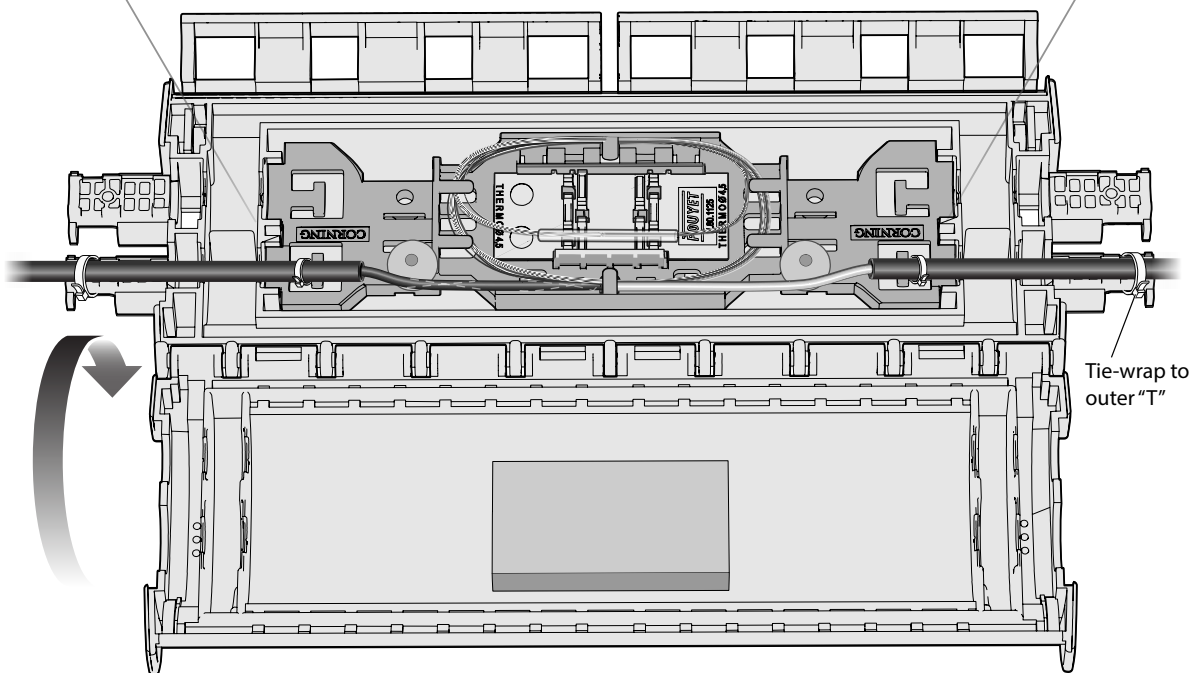
Splice protector

Figure 11   Splice protector mounted in a splice tray

Tie-wrap to outer "T"

Figure 12 Splice tray mounted inside closure, tie-wraps installed.
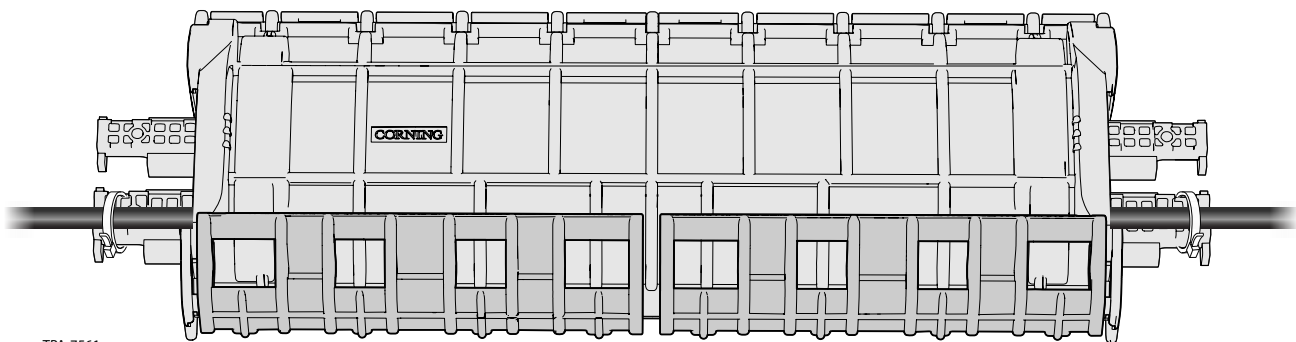
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Figure 13   Closed lid with latches engaged.