CORNING

Evolv® Field-Installable Pushlok® Connector for FBC-007 Cleaver

P/N 004-176-AEN, Issue 4

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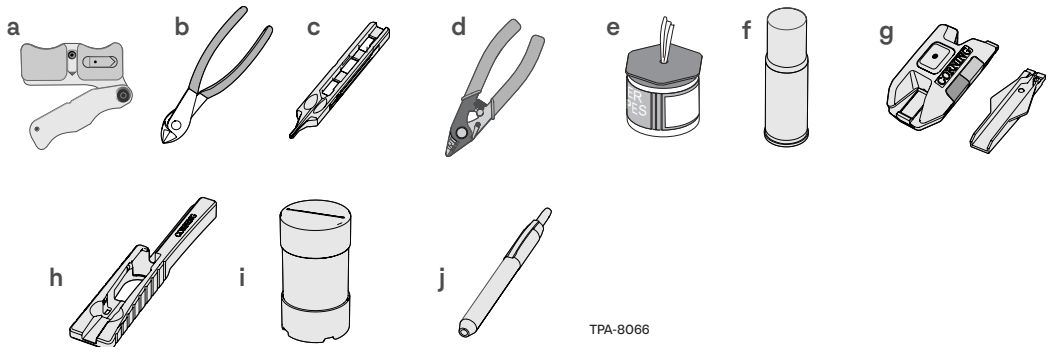
1. General

This procedure describes methods for properly installing Pushlok® field-installable connector on bulk ROC™ drop cable and mated to an Evolv® terminal in duct and aerial applications.

TPA-8065

2. Required Tools

a. ROC drop cable toning wire removal tool
b. Snips or wire/cable cutter
c. Cable handler
d. Strippers
e. Lint-free wipes
f. Fiber cleaning solution
g. FBC cleaver and track
h. Insertion guide
i. Shard container
j. Marker



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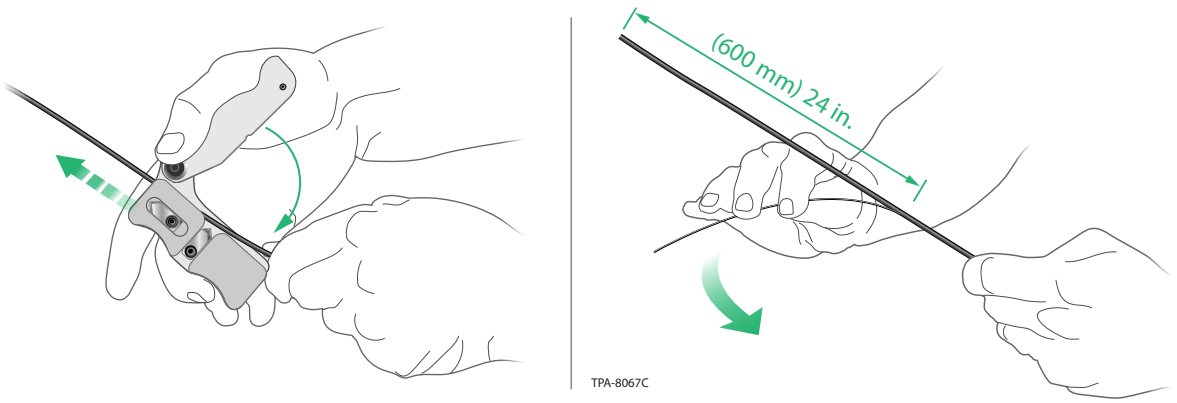
WARNING: Isopropyl alcohol is flammable with a flashpoint at 54°F. It can cause irritation to eyes on contact. In case of contact, flush eyes with water for at least 15 minutes. Inhalation of vapors irritates the respiratory tract. Exposure to high concentrations has a narcotic effect, producing symptoms of dizziness, drowsiness, headache, staggering, unconsciousness, and possibly death.

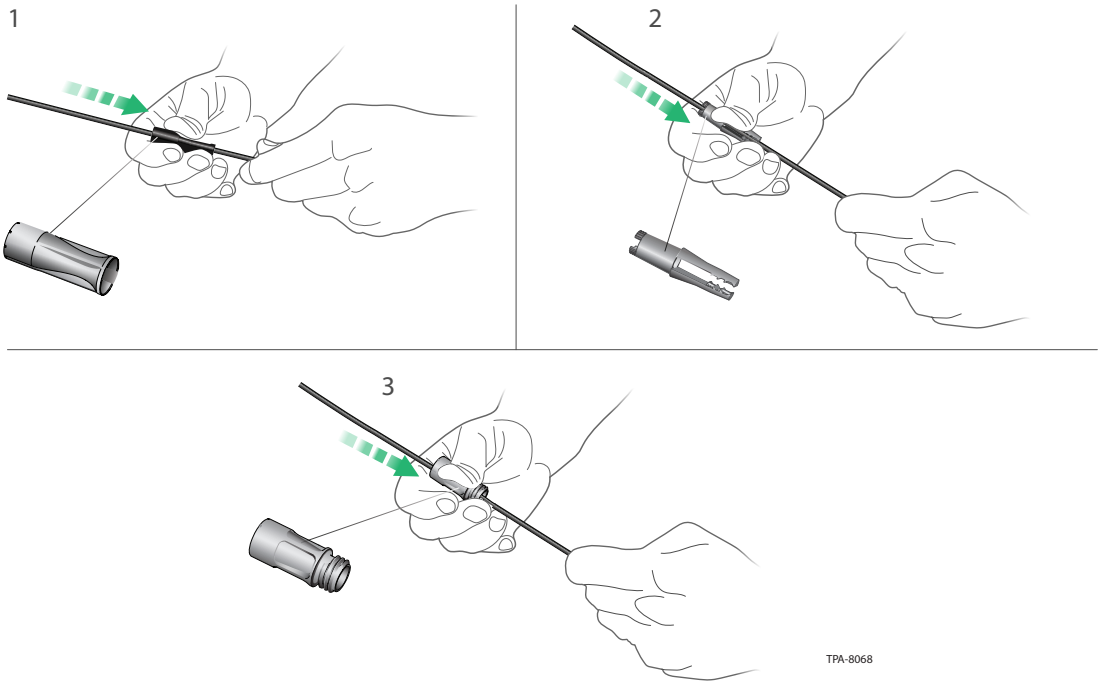
WARNING: Never look directly into the end of a fiber that may be carrying laser light. Laser light can be invisible and can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.

3. Preparation for ROC™ Drop Cable with FastAccess® Technology

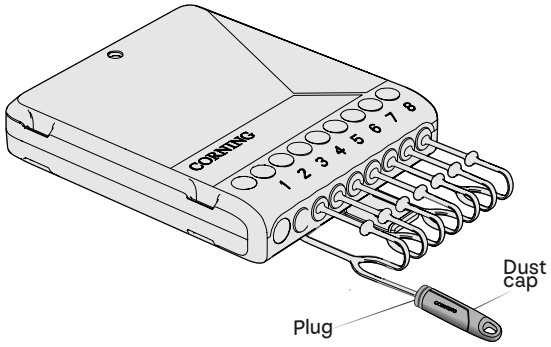
Step 1: If working with ROC™ drop cable with a toning wire, use the ROC drop cable toning wire removal tool to remove at least 600 mm (24 inches) of the toning wire.

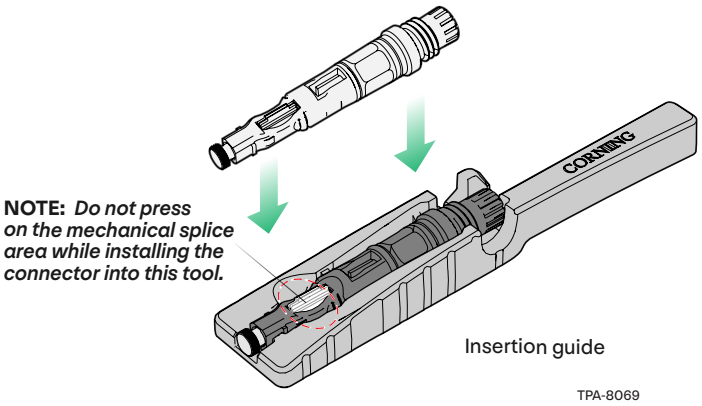


Step 2: Open the connector packaging. (1) Slide on the trumpet boot (2) then slide on the clamp. (3) Then slide on the seal activator.

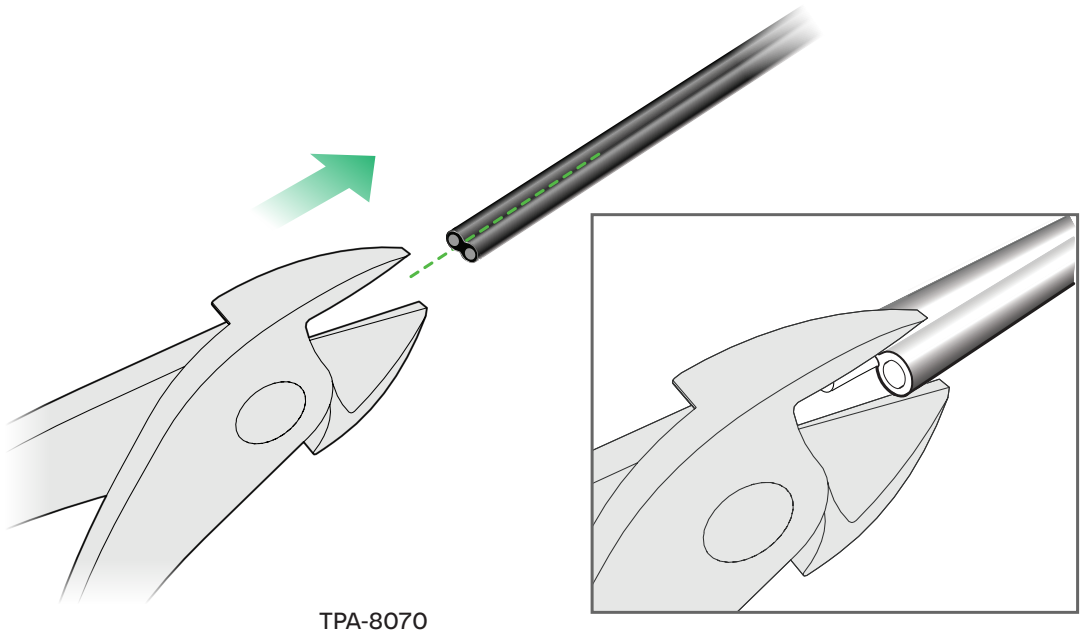


Step 3: Remove the connector dust cap and install it on the plug of the terminal. Place the connector body in the insertion guide for safe keeping.

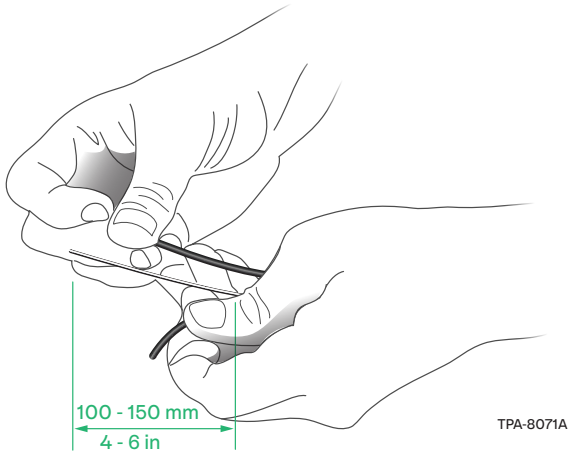




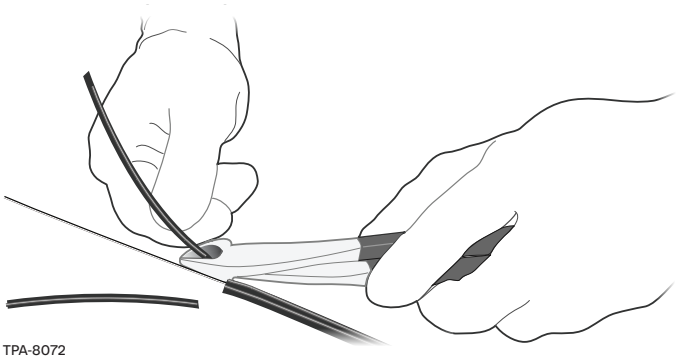
Step 4: Using the pair of snips, cut between the ROC™ drop cable strength rods to initiate the ROC drop cable with FastAccess® technology. For opening ROC drop cables without FastAccess technology, please refer to Section 4.



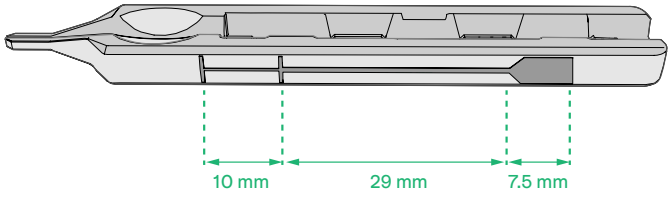
Step 5: Separate the 900 µm and strength rods to expose approximately 100 mm to 150 mm (4-6 inches) of 900 µm.

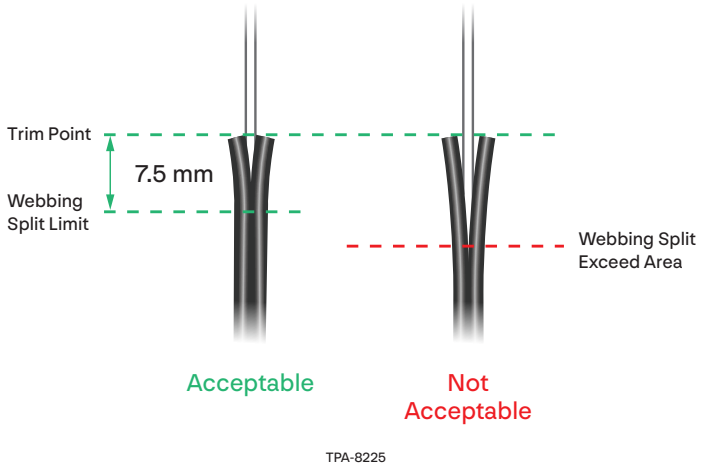


Step 6: Using snips or wire/cable cutters, trim the strength rods as close to where the FastAccess® technology webbing opens. Take care not to cut the 900 µm fiber.

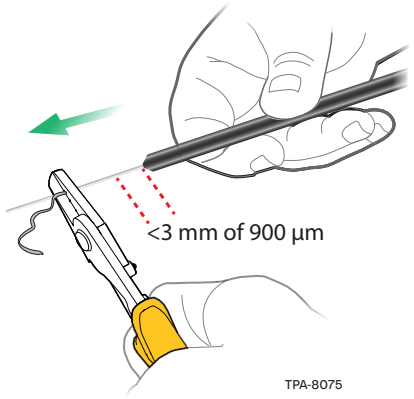


NOTE: ***When trimming the strength rods, trim as close to where the FastAccess technology webbing between the two strength rods splits. There is a gauge on the side of the cable handler. The webbing split should not exceed 7.5 mm (.30 inches) from where the strength rods are trimmed.***

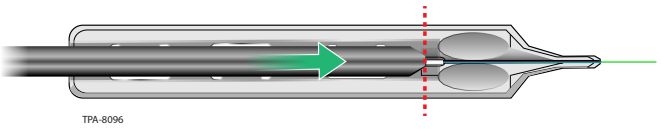


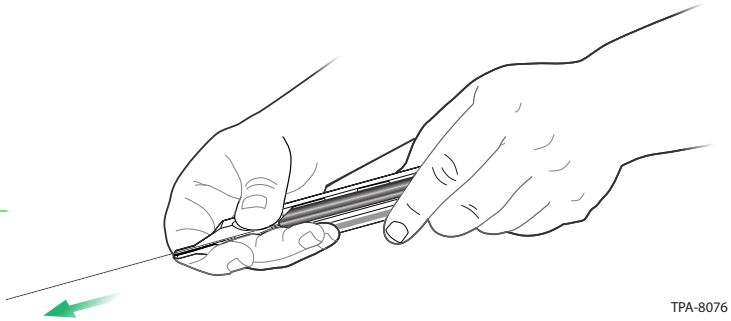


Step 7: Strip the 900 µm buffer to within 3 mm (.12 inch) of the ROC™ drop cable jacket leaving behind the 250 µm buffer.

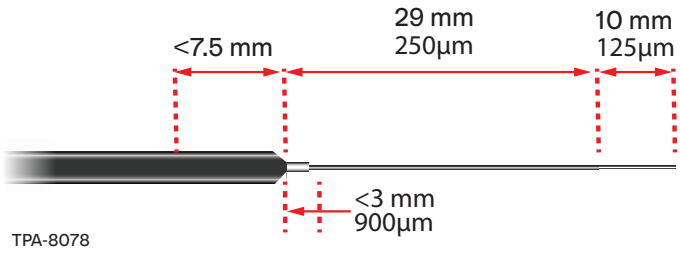


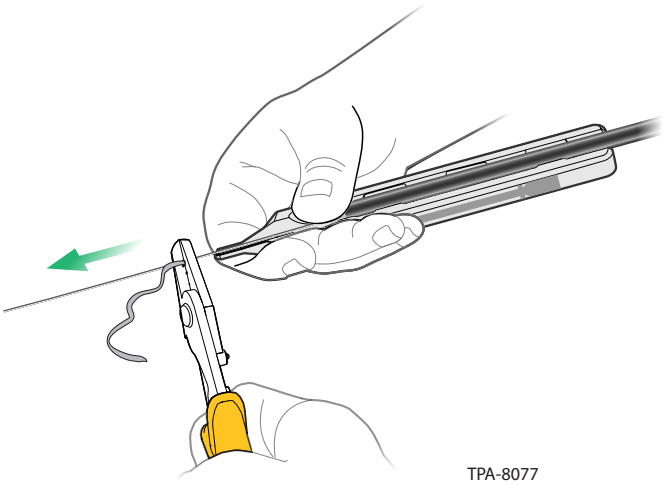
Step 8: Insert the prepared cable into the cable handler. Slide the cable all the way forward.

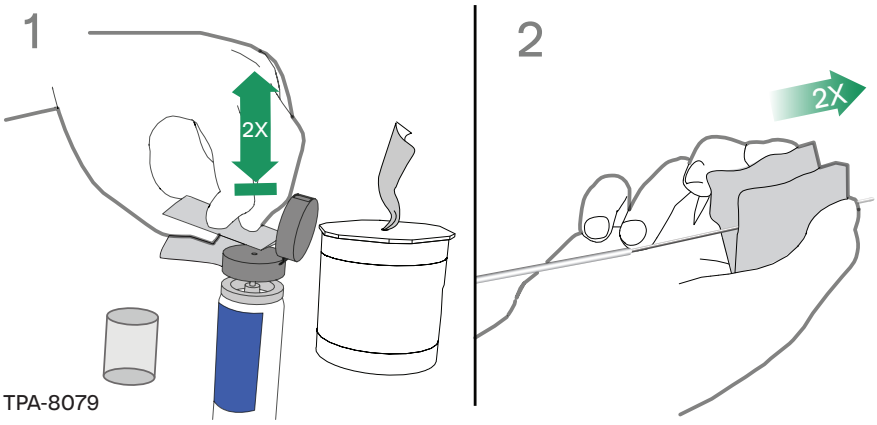




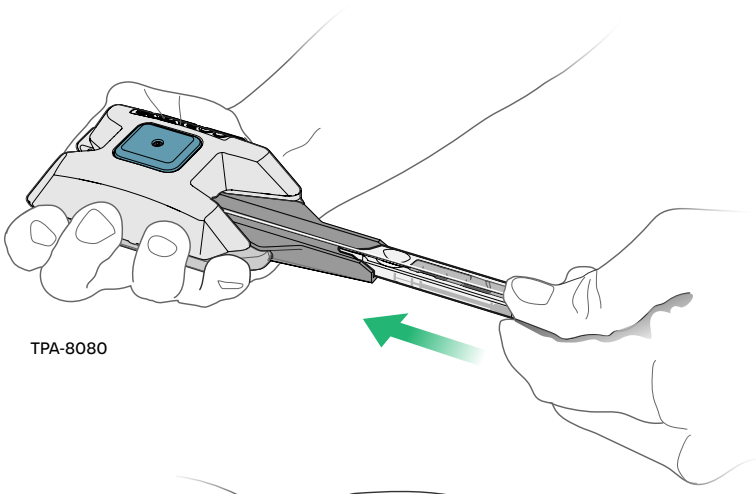
Step 9: Strip the 250 µm flush with the end of the cable handler. Clean fiber residue with lint-free cloth and isopropyl alcohol.







Step 10: **Push fiber down into the v-groove of the handler while inserting the cable handler into the cleaver.** Create a 10 mm cleave. Properly dispose of glass shard.



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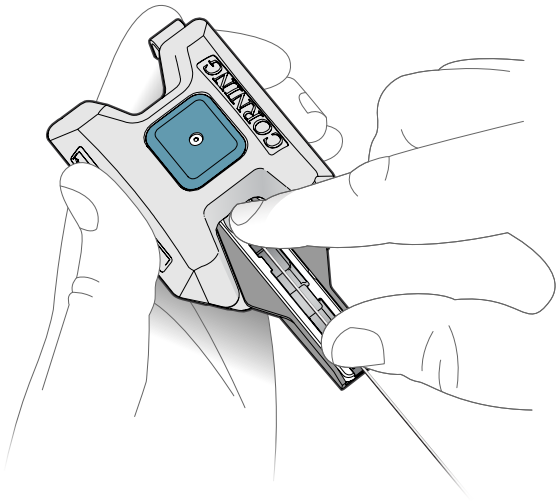

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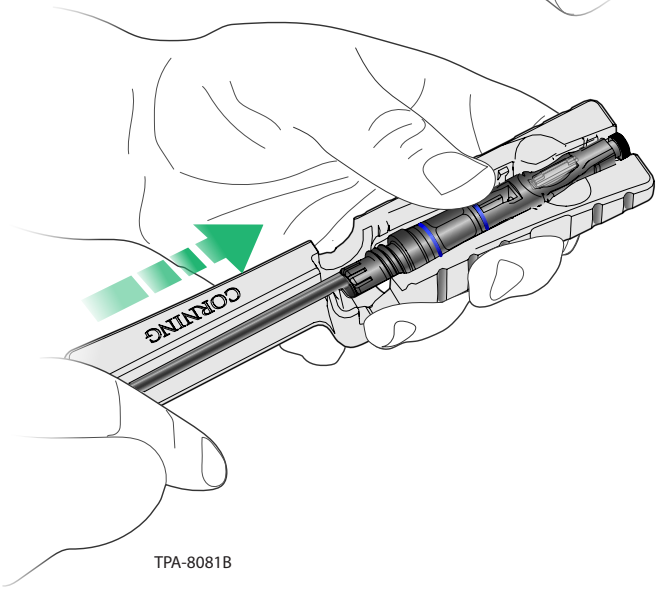

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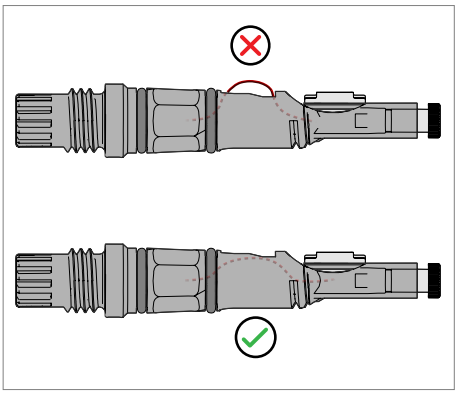
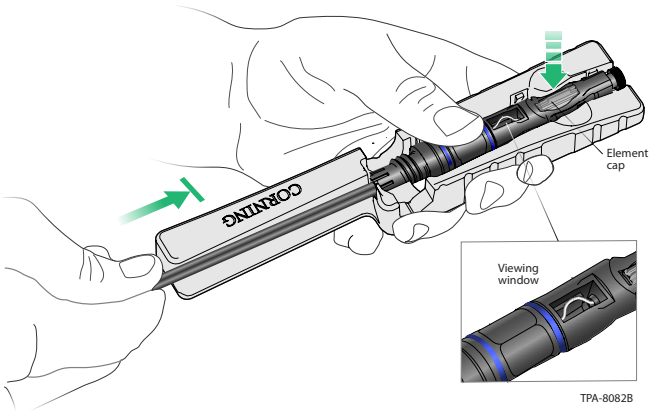
Step 11: Remove the cleaved fiber from the FBC handler. Using the connector installed in the insertion guide, slowly insert the cable into the back of the connector.

Step 12: Insert the fiber fully into the connector. The fiber will create a small bow that is visible through the viewing window. The cable should hit a positive stop.





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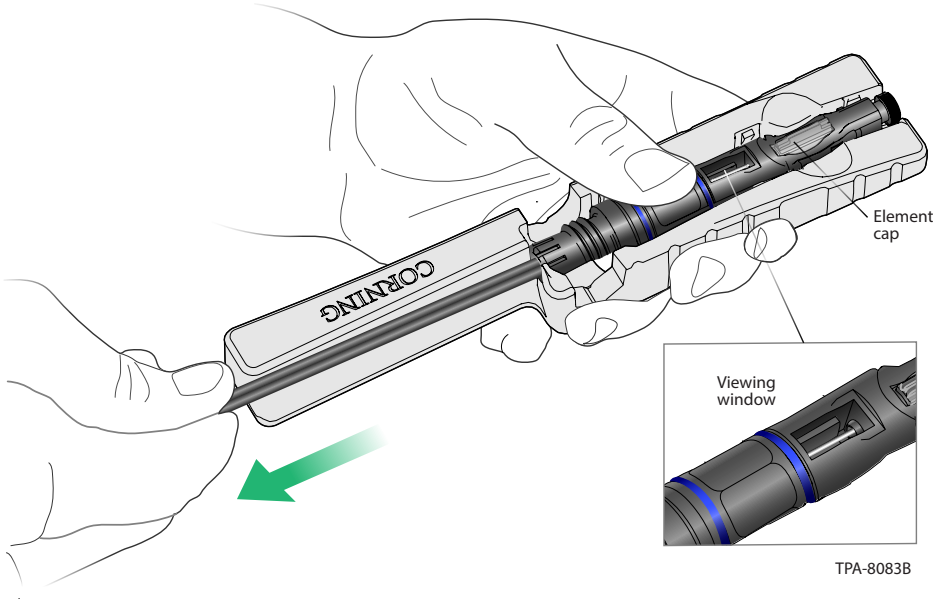
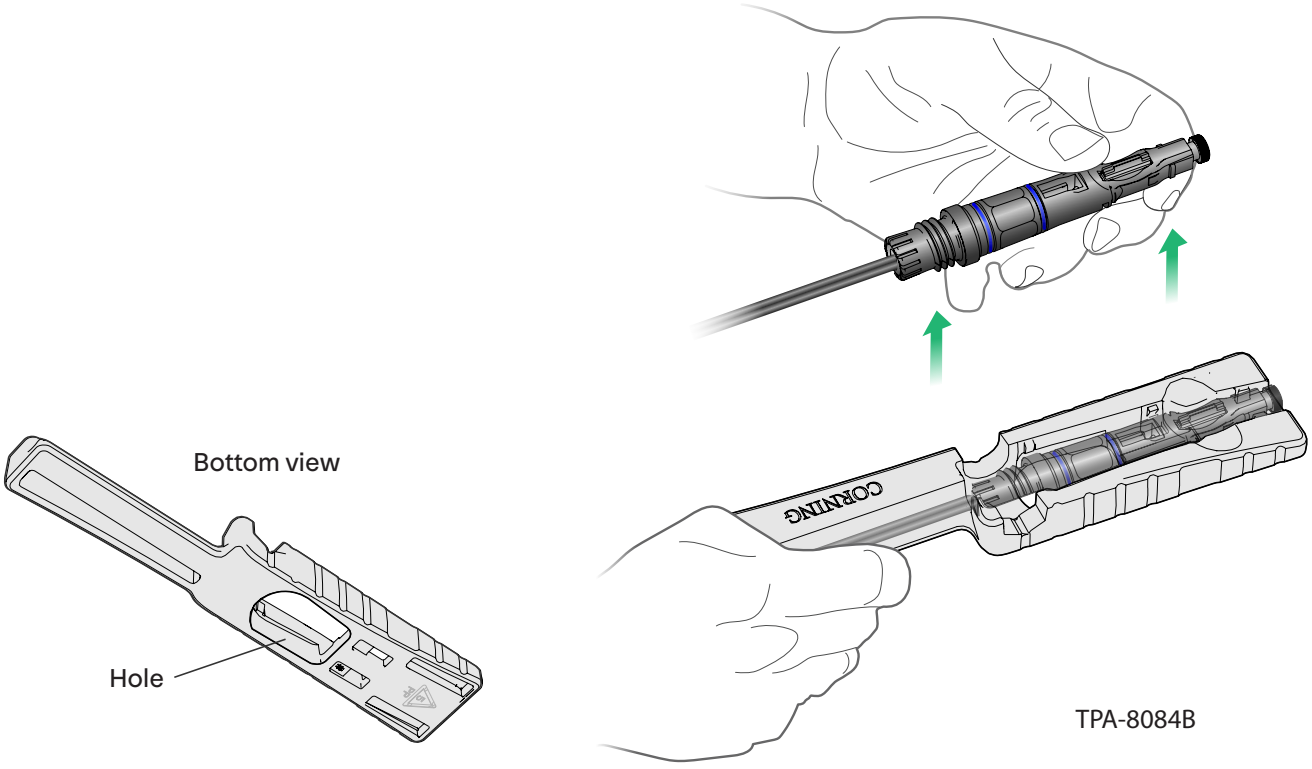
Note: ***If the fiber bow extends outside of the viewing, back out the fiber and attempt reinsertion.***

Step 13: Press the element cap to activate the splice element.

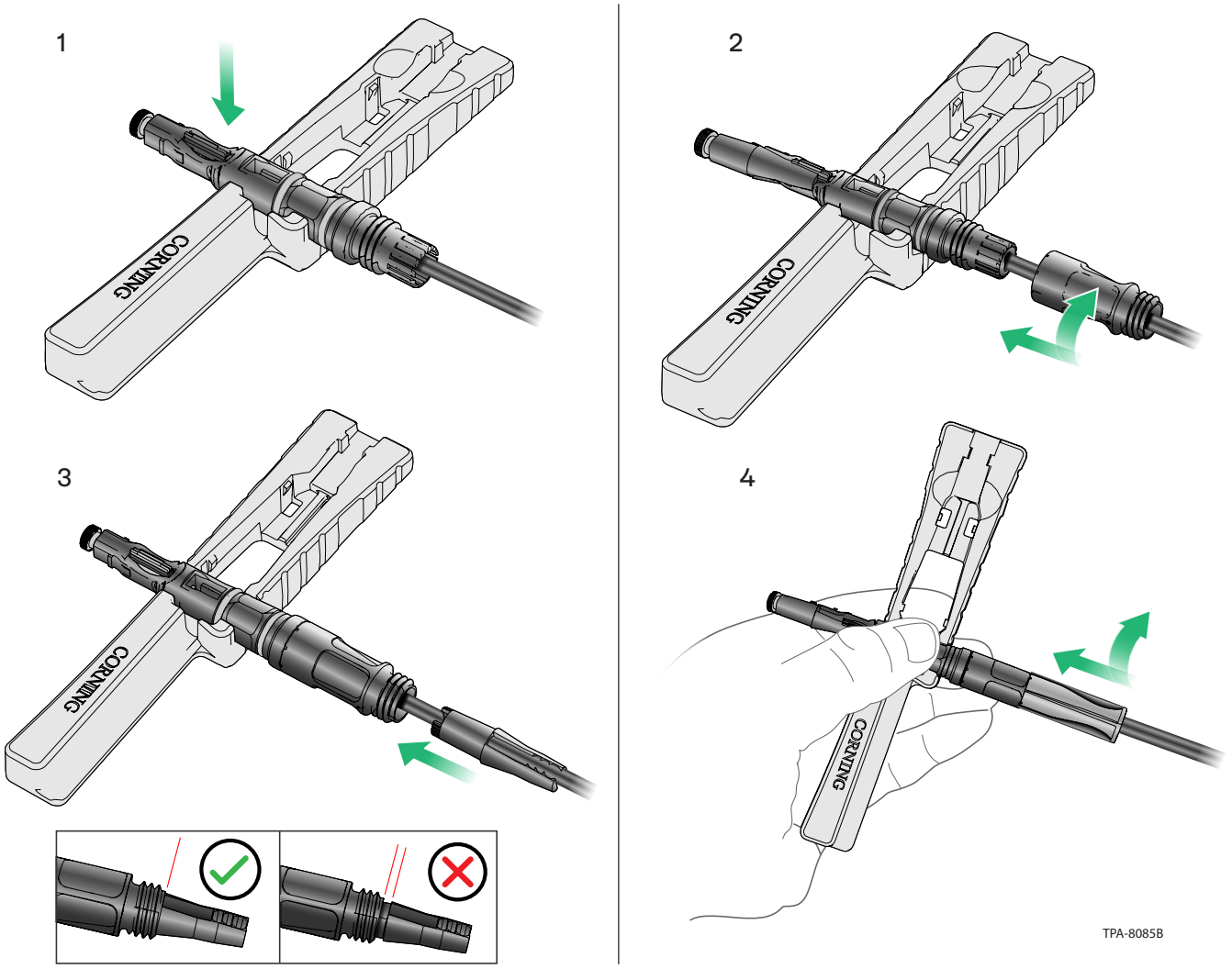
Step 14: Using a light touch, pull back on the cable to remove the fiber bow.



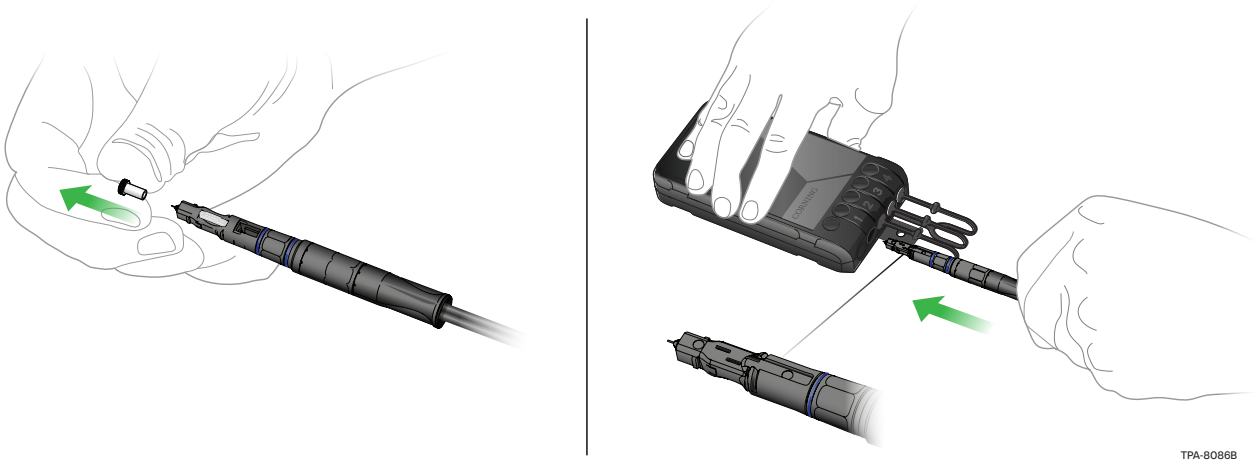
Step 15: Remove the connector and cable from the insertion guide. There is a hole on the bottom side for easy removal.



Step 16: Double check that the bow has been removed through the viewing window. Slide up and thread on the seal activator. Then slide the clamp forward to nest fully inside the seal activator. Then slide up and thread on the trumpet shaped boot until flush with the seal activator.



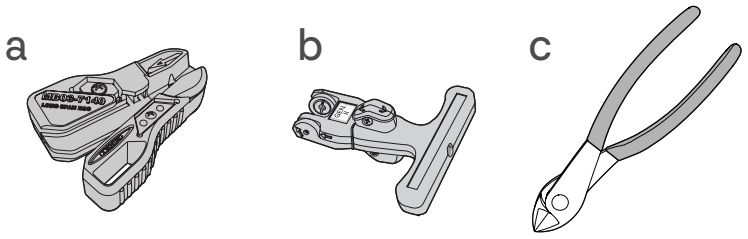
Step 17: Remove ferrule dust cap from the connector before installing into Evolv® terminal.



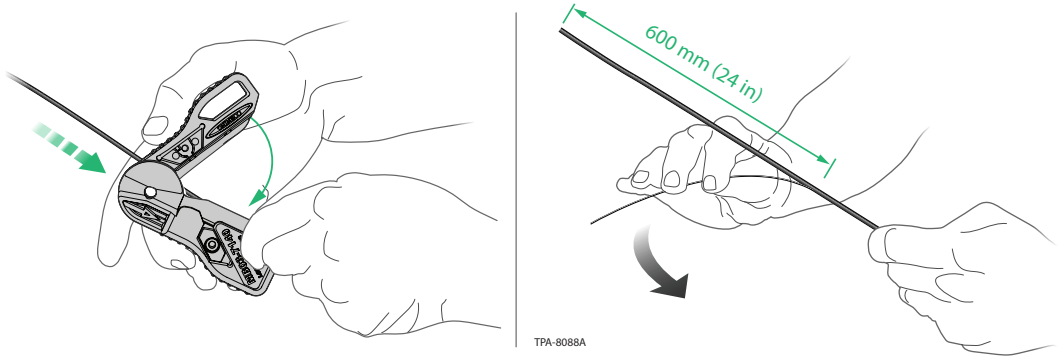
4. Preparation for ROC™ Drop Cable without FastAccess® Technology

Required Tools

a. Long-span removal tool
b. ROC drop cable T-handle tool
c. Snips or wire/cable cutter

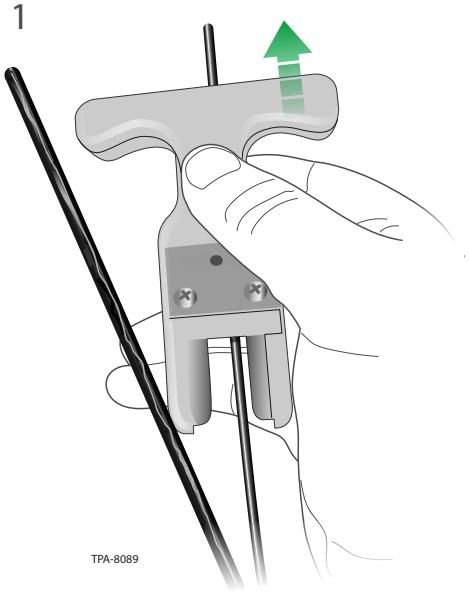


Step 1: Remove 600 mm (24 inches) of the long span lobe.



Step 2: Using the ROC™ drop cable T-handle jacket removal tool, remove 100 mm to 150 mm (4 inches to 6 inches) of jacket from the end of the cable.

1



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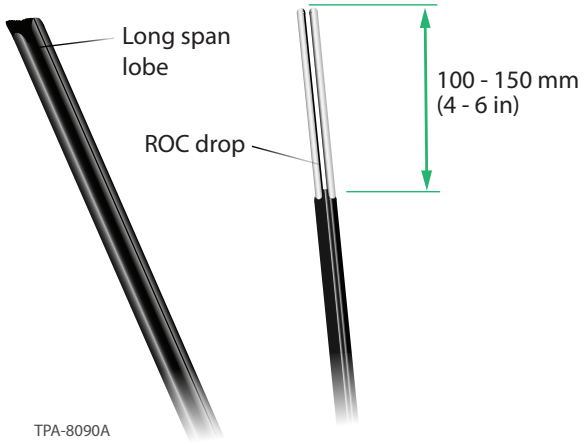
2



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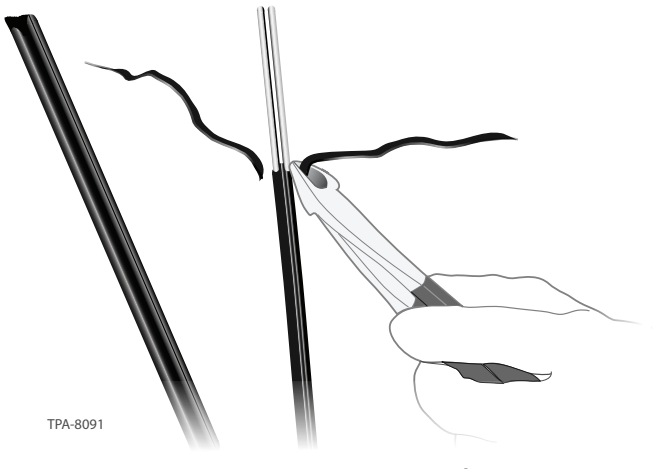
Step 3: Trim jacket using snips or wire/cable cutter. Then bend 900 µm out of the way and trim the strength rods flush with the end of the ROC drop cable jacket.

3



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4

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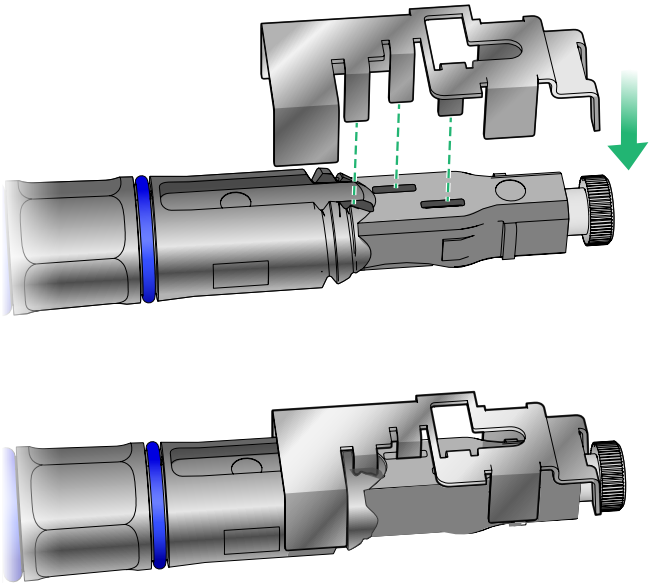
5. Rework Procedure for Single Reuse

Step 1: Insert the three prongs of the Pushlok® field-installable connector cap popper into the three slots on the bottom of the connector.



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Step 2: Unthread the trumpet boot (1), followed by the clamp (2), then the seal activator component (3).

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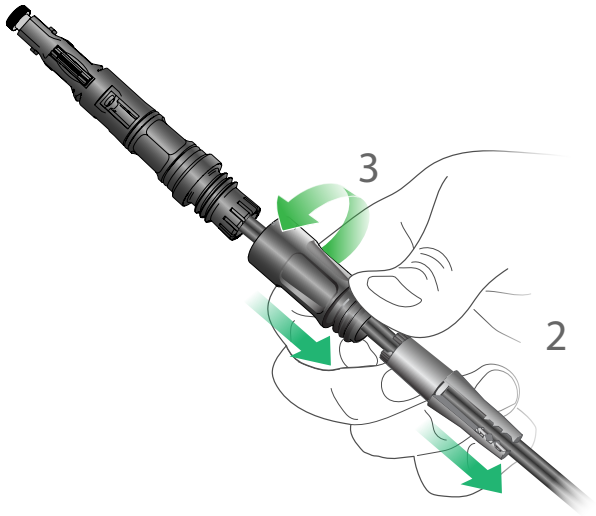
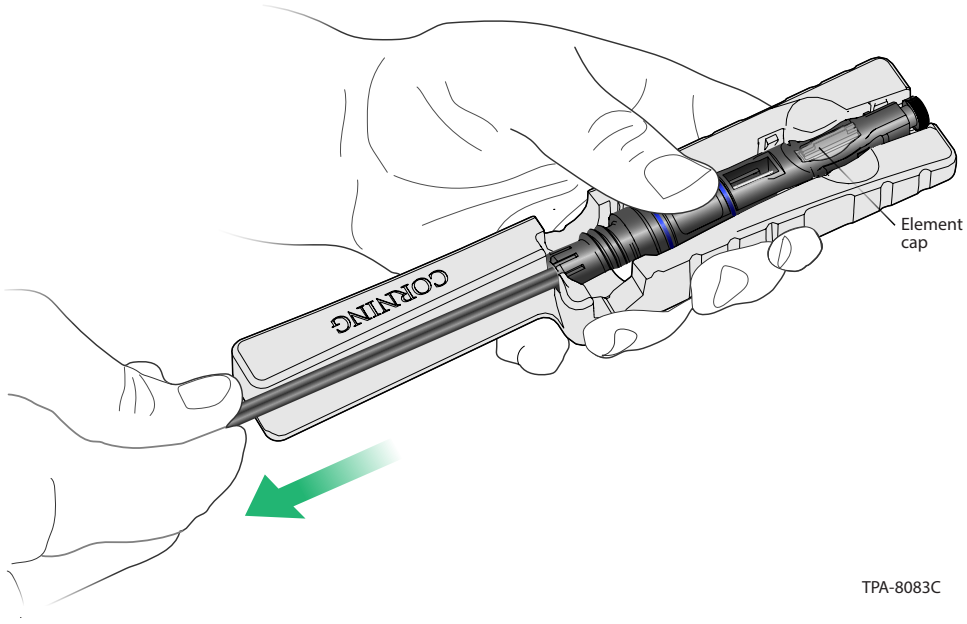


Step 3: Place the connector back into the insertion guide. Using a light touch, pull the cable out of the connector.

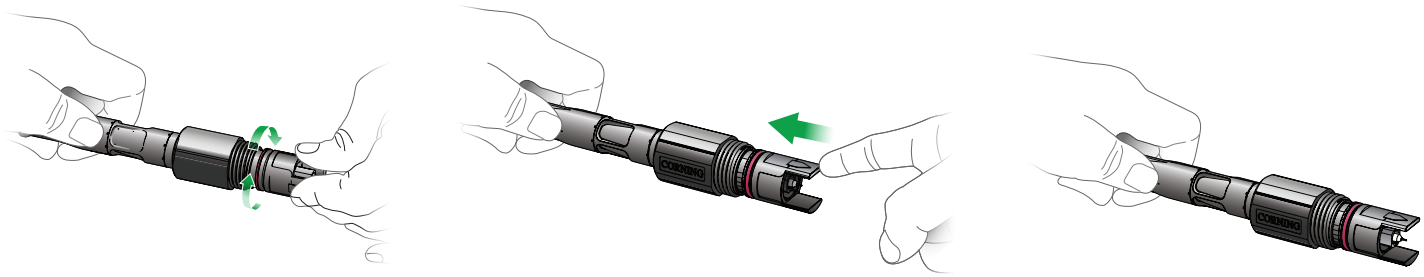


Step 4: To reposition the fiber, repeat Steps 11-17 in Section 3. Or, remove the fiber and repeat all steps in Section 3. If a fiber is broken within the connector, discard the connector and do not reuse it.

Step 5: Clean the connector end-face with a lint-free cloth and isopropyl alcohol before optical use.

6. OptiTap® Conversion Installation and Cable Routing

Step 1: Thread on the OptiTap® converter on to the end of the field-installable Pushlok® connector. Then press the cap into place.



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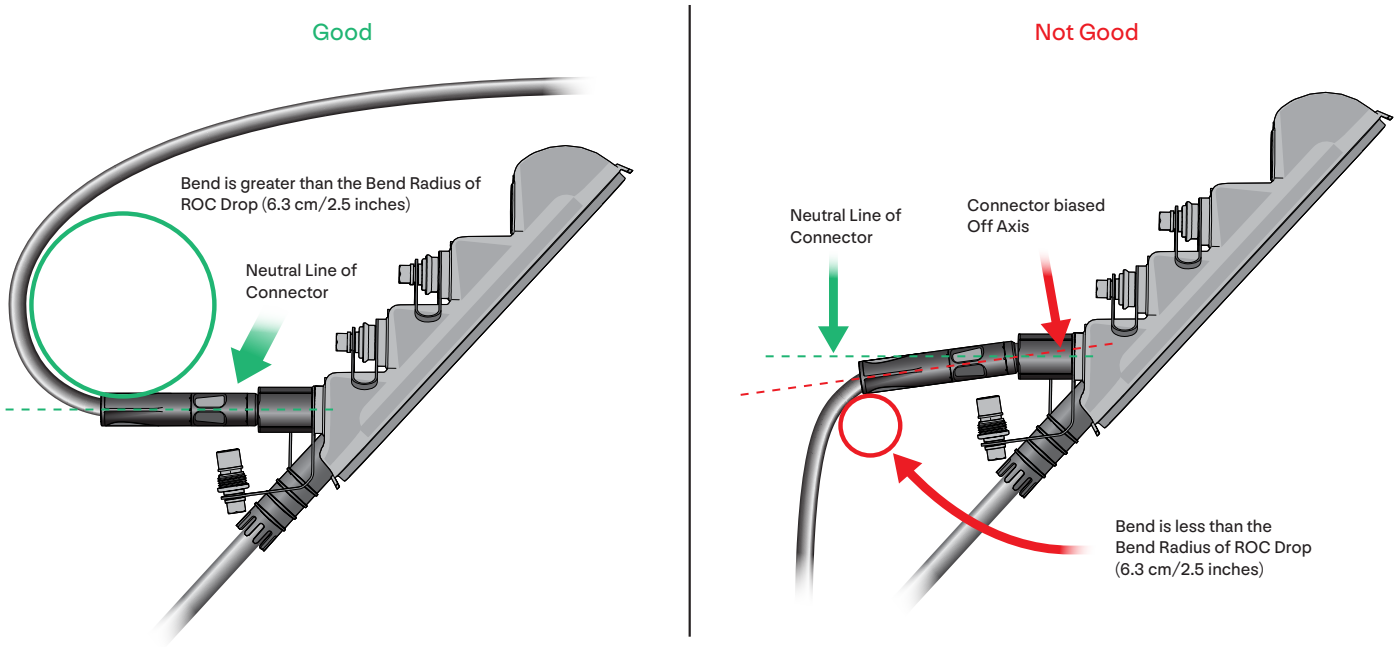
Step 2: Install into OptiTap adapter. When routing the cable DO NOT exceed the minimum bend radius of the cable (2.5”). Avoid side loads that move the connector out of alignment.



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