

Mechanical Splice Field Installation Instructions

WIS-182 Rev. A 5/2006

Required Tools:

- Buffer and Coating Stripper
- Cleaver
- Isopropyl Alcohol
- Lint-Free Wipes
- Visual Fault Locator (optional)



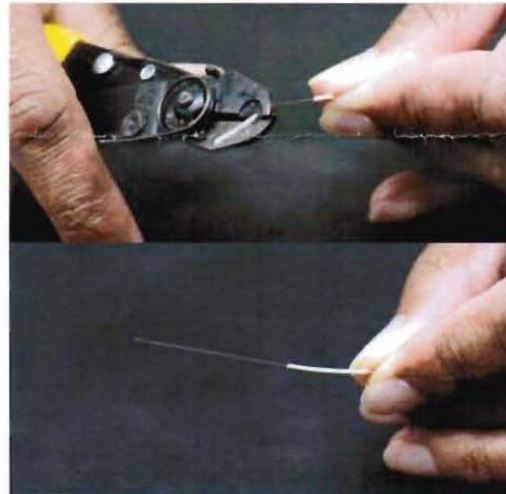
Mechanical Splice bag of parts

- Top Shell
- Bottom Shell
- Splice Core



Step 1: Strip Fiber

Strip back fiber buffer and coating 1.5 inches from fiber tip.



Clean stripped fiber with Isopropyl Alcohol and Lint-free wipe.



Step 2: Cleave Fiber

Cleave fiber to 14mm in length.

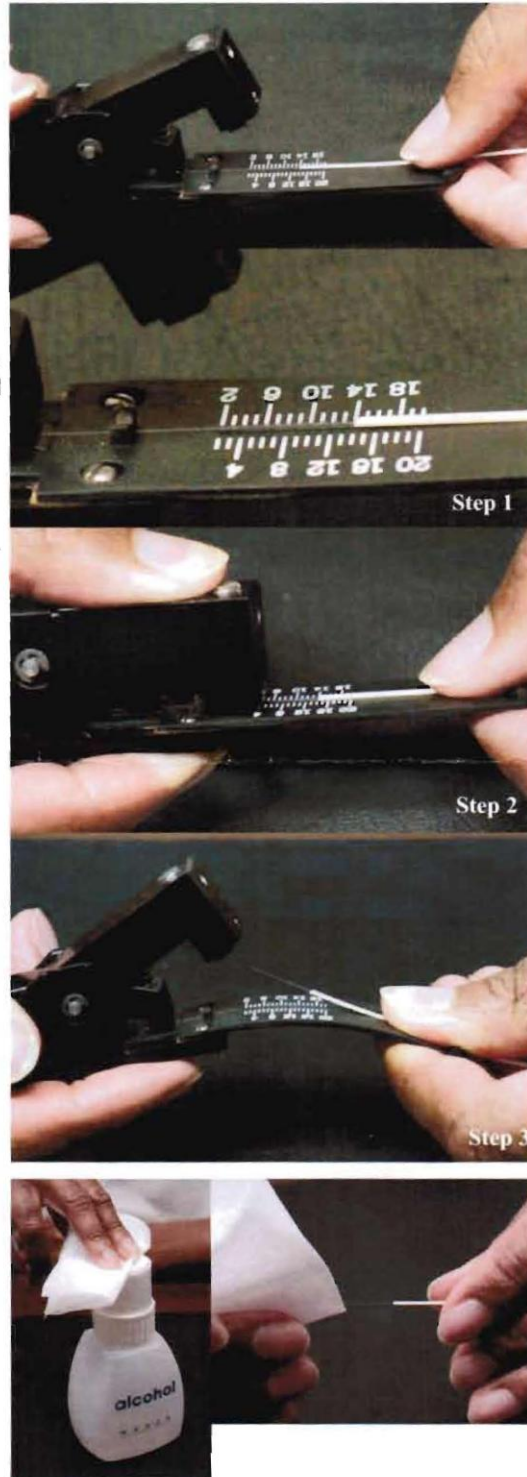
You can perform this step using any cleaver, however listed below are the 3-steps to using the FIS Field Cleaver (pn# F1-6000)

Lift up fiber holding hammer by pressing down on the back of the cleaver arm. Place fiber in the groove and slide it underneath the hammer. Slide the fiber until the end of the buffer rest at the 14mm mark on the base plate

Gently press down on the front of the cleaver arm until the blade touches the fiber and you feel the spring loaded blade bottom out.

Release the cleave arm and then bent the flexible base plate down until the fiber cleaves itself.

Clean cleaved fiber with Isopropyl Alcohol and Lint-free wipe.



Step 3: Insert Fibers into Splice Core

This step is shown using optional visual fault locator to aid the fiber optimizing process.

Insert the cleaved fiber, with the visible laser shining through it, mid-way into the splice core.

The laser light escaping from the end of the fiber will cause the splice core to illuminate.

Insert the second cleaved fiber into the splice core.

Continue inserting the second fiber until it butts up against the first fiber. At this point, most of the laser light that was escaping from the end of the first fiber will pass into the second fiber and the splice core will stop illuminating. You have now made a proper connection.

Place the splice core with the joined fibers into the fiber channels of the bottom outer shell.

Line up the tabs of the top outer shell with the side channels of the bottom shell.

Press the top shell down until it clips into place.

To make the mechanical splice permanent and to improve the fiber pull strength, you may add a couple of drops of quick curing adhesive to the epoxy holes in the top shell of the splice.

