INSTALLATION OF FIBER BREAKOUT KIT ON CABLE WITH A FIELD INSTALLABLE CONNECTOR

INSTALLATION GUIDE

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Breakout Kit components



NOTE: Read these instructions carefully before installing a Fiber Breakout Kit.

Typical cable preparation, ready for Breakout Kit installation

Standard tools and materials

- Electrical or masking tape
- Lint free wipes
- Indelible marker
- Wire stripper
- Gel cleaner
- Needle nose pliers
- Fiber stripper
- Tweezers
- Fiber waste bottle

Special tools

- Fiber cleaver
- Fiber connector preparation guide (LC/SC/ST)

Safety precautions

▲ Wear safety glasses.

A Put all fiber scrap in waste bottle.

▲ Dot not look into fiber end.



1. Cable preparation

 Determine the cable anchor point (per product practice). Measure back 37.5" (955 mm) and add application length.



 Cut and strip off the main jacket. Remove the strength member and the Kevlar.



 When applicable and using alcohol pads (or your own approved gel cleaner) remove all gel and throughly clean tubes. Measure back 37,5" (955 mm) and mark the tubes or sub-units.



2. Preparing tubes or sub-units

 Strip all tubes or sub-units at the 37.5" (955 mm) mark to expose fibers. For μMini and Mini-Distribution cables ONLY leave 7/8" (22.23 mm) of Kevlar.



2. Tape each tubes or sub-units on a work surface and using alcohol pads, throughly clean all fibers.



3. Fiber insertion

1. Align the tubes or sub-units with the front tabs and crimp tabs until tubes or sub-units deform.



NOTE: For µMini-distribution cable (with sub-unit of 2 mm) **ONLY**, and before the Kevlar is folded back, the sub-unit must be covered with a piece of 1" long of electrical tape, 3/4" wide.

IMPORTANT: A 3/4" wide tape must be used to get a diameter of a sufficient size to hold between the tabs.



2. Uncoil Terminal Assembly tubes and tape the unit onto a side of the work area.



- **4.** Thread each fiber approx. 1/2" (1.5 cm) into the tube.
- \triangle Make sure that fibers do not cross over each other.



4. Base and Cover Assembly

1. Untape Terminal Assembly and gently slide unit into base.



Installing connectors on cable

1. Fiber preparation

1. Check if the 250 μ m fiber is extending out at least 35 to 40 mm from the tube.

If the extended fiber is short, strip the tube to create the appropriate length.



3. Use alcohol and lint free tissues to clean each fiber, one by one.



5. Push the fibers as a group, into the tubes.
A If a resistance is felt on one fiber, sligthy back up the group and



Alternate method: Push each fiber, one at a time, until fully inserted

2. Align tabs, and press the cover onto the base.



2. Slide the connector boot and rear housing (when applicable) onto tube



3. Push the fiber back as far as possible inside the tube.



5. With alcohol carefully and throughly clean the bare fiber. Use two or three passes.



2. Cleave the fiber

- **1.** Make sure to align the coating, **and not the tube**, with the stop of the cleaver. Keeping a steady tension on the fiber will help to obtain a good cleave.
 - * Follow carefully the instructions supplied with your cleaver.



3. Connector termination

1. Follow the standard 900 μ m fiber installation procedure to finish terminating the connector.

Installation of Fiber Breakout kit on cable with a field Installable connector - Installation Guide

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This document is also available at our webiste www.belden.com

For additional technical information on the Breakout Kit or our others connecting products, call **1-800-858-7954**

4. Position the fiber stripper against the end of the tube and remove the 250µm coating in **one stripping motion**.



6. From the end of the tube mark the tube such as indicated in the installation guide of each specific connector type.



2. Use the tweezers to push back the fiber into the tube and check that the end of the $250\mu m$ coating extends out of the tube, from 0.5 to 1.5 mm.



IMPORTANT: The end of the coating shall not be inside the tube.

3. If one of the dimensions below is not within tolerances, start again at step #1.



