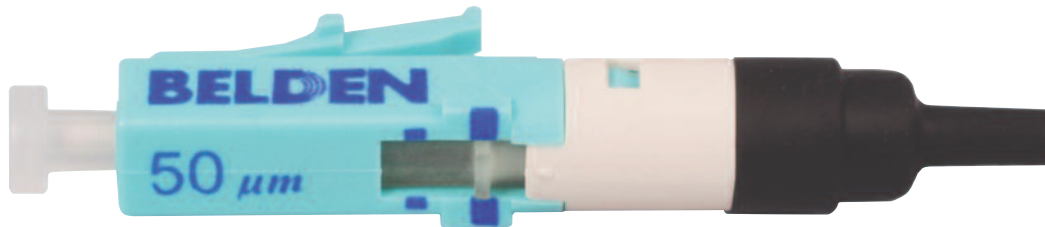


FiberExpress Brilliance[®] Connectors

Installation Guide



Section D - Installation on 900 μm Fiber

Basic Installation

- 1 Push the activator tab towards the front using the small line indicator as a locating reference. A stylus is available if needed to provide assistance in opening and closing the activator tab.
- 2 Align the fiber tip with the rear housing by bringing both hands together for stability, as shown. Guide the fiber into the connector until you reach the buffer mark.

Note: If needed, an adapter is available with the Installation Kit to help grip the connector (see Section B).

1 Open Activator Tab

Alternative: Using Stylus

2 Insert Fiber into Connector

Section D - Installation on 900 μm Fiber

Basic Installation (Continued)

- 3a Use your dominant hand to produce a bow in the fiber. Hold the bow in place with the fingers from your dominant hand while leaving your index free, as shown. Pull activator tab towards the rear, using the large line indicator as a locating reference.
- 3b Use your dominant hand to produce a bow in the fiber. Secure the bow with your passive hand while holding the connector as shown. Use free hand to pull activator tab towards the rear, using the large indicator line as a locating reference.
- 4 Install the connector boot, slide it onto the rear of the connector until it reaches the body. The installation is now complete.

3a Activation Method 1



3b Activation Method 2



4 Install Boot



Section E - Installation on 900 μm Fibers with Accessories

1 Support Handle Preparation

- 1.1 Remove the clip protector and insert the adapter into the Support Handle as shown.
- 1.2 If you are using a visual fault locator (VFL), first remove the VFL's protective cap then snap it into the Support Handle as shown. Using a VFL is optional.
- 1.3 Connect the VFL to the adapter using the supplied patch cord.

1.1 Snap in Adapter



1.2 Snap in VFL



1.3 Connect Patch Cord



Section E - Installation on 900 μm Fibers with Accessories

1 Support Handle Preparation (Continued)

- 1.4 Insert the Brilliance connector into the Support Handle's adapter.
- 1.5 Arm the VFL, then choose a pulse or continuous laser mode by repeatedly pressing the mode toggle button. A green light will appear to indicate that the VFL is active, if a red light appears, the batteries need to be replaced. Using a VFL is optional.
- 1.6 Push connector activator tab towards the front using the small line indicator as locating reference. A stylus is available in the Support Handle, if needed, to provide assistance in opening and closing the activator tab.
- 1.7 When using a VFL in the connection process, a red light will appear in the connector window.

1.5 Turn on VFL



1.6 Open Activator



1.7 Light Indicator



Section E - Installation on 900 μm Fibers with Accessories

2 Fiber Preparation (See Section C for steps)

While preparing the fiber the support handle can be placed in the pouch's exterior holster or on a work surface for ready usage.

3 Insert Fiber

- 3.1 After preparing your fiber, grip the Support Handle with your passive hand.
- 3.2 Using your dominant hand, guide the fiber into the Support Handle groove. Allow the fiber to follow the curve in the handle and secure with your thumb.
- 3.3 Guide the fiber into the connector and stop when you feel contact. When fully inserted, the buffer mark should be near the edge of the rear housing of the Brilliance connector. At this point, if you have a visual fault locator, verify that the light goes out or dims substantially. If not, gently back off and reseal the fiber.

3.1 Grip Support Handle



3.2 Place Fiber in Groove



3.3 Insert Fiber



Section E - Installation on 900 μm Fibers with Accessories

4 Finalize Connector Installation

- 4.1 Produce a bow by sliding your thumb along the Support Handle's graduated scale. Slide between 5 and 8 mm to ensure adequate pressure is applied to the fiber tip. Hold your thumb in position.
- 4.2 Use your other hand to pull the connector activator tab towards the rear using the large indicator line as a locating reference. If using a VFL, the absence of red light indicates that the termination has been successful. If the light does not go out or dim substantially, repeat fiber preparation steps and try again.
- 4.3 Install the connector boot, slide it onto the rear of the connector until it reaches the body. Remove the connector from support handle. The installation is now complete.

4.1 Produce Bow



4.2 Close Activator



4.3 Install Boot



Section F - Installation on 900 μ m Using Breakout Kit

Breakout Kit Preparation

Refer to Breakout Kit Installation Guide provided with each AX101100 or AX101101 for breakout kit installation on loose tube or mini distribution cables.

Breakout Kit Preparation

- 1 Slide the boot on the fiber as shown.
- 2 Using the 250 μ m region of the stripper, strip the tube at 30 mm from the fiber end. If unfamiliar with stripping optical fiber, it is advised to practice using a spare piece of fiber.
- 3 Gently push the fiber back into the tube.

1 Install Boot on Fiber



2 Strip 30 mm Off Tube



3 Push Fiber Back In



Section F - Installation on 900 μm Using Breakout Kit

1 Breakout Kit Preparation (Continued)

- 1.4 Using the 125 μm region of the stripper, strip the cladding at 30 mm from the fiber end.
- 1.5 Align the tube on the Installation Card's graduated scale and mark with the ink marker at 13 mm.
- 1.6 Thoroughly clean the bare fiber with an alcohol wipe and gently push the fiber back into the tube.
- 1.7 Refer to Section C: Step 5 for cleaving instructions and Section D to complete the installation.

1.4 Strip Off Cladding



1.5 Make Mark at 13 mm



1.6 Clean Bare Fiber



Section G - Cleaning Procedures

Connector Cleaning Procedure and Precautions

1. Wipe completely around the connector ferrule a few times with a lint-free alcohol soaked wipe. Then wipe across the end of the ferrule and twist off.
2. Blow compressed air across the end of the ferrule (optional but recommended).
 - * Do not allow ferrule to touch anything before inserting into adapter.
 - * Preferred alcohol is ethanol but isopropyl alcohol may be used.

VFL Components Cleaning Procedure and Precautions

1. Remove the patch cord and clean the connector ferrule as described above.
2. Ensure the interior of the VFL adapters are free of contaminants.
3. Ensure the interior of VFL ferrule sleeve is free of contaminants.
4. Reapply dust caps to patch cord and adapters immediately after use.

Tips

1. When cleaning the fiber with alcohol wipes, a squeak is a good indication that the fiber is free of impurities.
2. Clean the patch cords and adapters regularly by following the recommended procedure. If a contaminant adheres to the ferrule tip or adapter ferrule guide, each connector installed could be damaged or contaminated.
3. It is strongly recommended to store unused adapters in a clean package such as the original packaging to avoid adapter contamination.

Section H - Troubleshooting Guide and Tips

Connector Troubleshooting

1. If the VFL is still visible in the connector window after terminating or test results are marginal:
 - The cleave may not be good. Ensure the cleaver is in good working order (see cleaver instructions), then repeat the cleave and termination procedure.
 - The cleaved fiber tip may be dirty. Ensure work area is clean and repeat cleave and termination procedure. If the problem persists contaminants may have been introduced into the connector.
2. If you cannot insert the fiber until buffer mark, make sure your mark and cleave are accurate and that the connector activator tab is in the open position, then repeat the termination procedure.
3. If the fiber broke inside the connector, discard the unusable connector and repeat the procedure.

Tips

- A - When removing the buffer from the fiber, cut perpendicular to the fiber and then tilt stripper slightly to facilitate removal.
- B - When a field cleaver is used, it is strongly recommended to verify the cleave quality with a microscope.
- C - If a VFL and patch cord are attached to the Support Handle be sure not to crush the patch cord in the interior pocket of the pouch. Instead, use the exterior holsters while working. Afterwards, it is recommended to remove the patch cord and adapter and reinstall the appropriate dust caps.
- D - A stylus included in the Support Handle can be used instead of your nail to push the activator tab.
- E - Turn off the VFL after every use to extend the life of the batteries.
- F - Make sure the dust caps are not installed when removing the adapter from the support handle.
- G - To ensure the VFL is properly fastened to the Support Handle make sure a snap is heard while attaching the it to the Support Handle.
- H - If the light from the VFL is not apparent in the Brilliance connector window, try closing and reopening the the activator tab.
- I - To remove the VFL from the Support Handle press on the VFL through the Support Handle pocket located in front of the adapter clipping location.

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**U.S.A. & Canada 1 800 BELDEN1
(1 800 235 3361)**

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