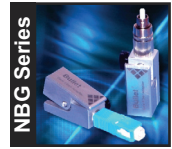
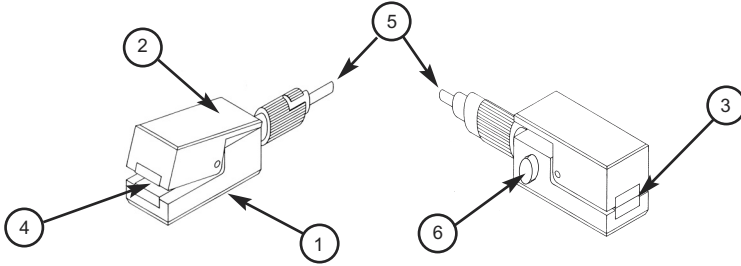


The Bullet® Bare Fiber Adapter



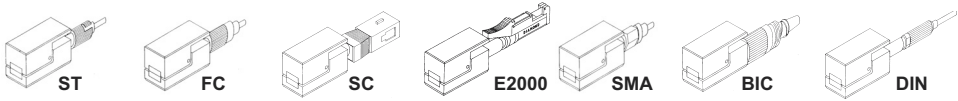
Part Identification

Each Bullet® includes an Adapter Body, Connector Module, Vial of Clean-out Wire and Storage Pouch.



1. Adapter Body, 2. Pressure Foot, 3. Foam Padding, 4. Fiber Entry Hole, 5. Connector Module(s) (Tip), 6. Thumb Screw

Connector Styles



Fiber Diameters: Color Code (dot located on connector shaft)
 YELLOW: Singlemode, BLACK: Multimode 125uM, RED: Multimode 140uM



Instructions



Always use protective eye wear when working with Bare and Active Fiber.

- Break fiber out to 900uM or less. Strip buffer and cleave fiber leaving approximately .14" to .55" of exposed glass, depending on connector style. **See table for minimum amount of fiber needed after cleaving.** NOTE: The use of a quality cleaver will result in a better temporary connection and prevent the possibility of fiber end damage.

Table (Minimum amount of fiber required after cleaving)			
Connector Style	Fiber needed	Connector Style	Fiber needed
ST	.55" / 14 mm	LC	.3" / 7.62 mm
FC	.55" / 14 mm	SMA	.52" / 13 mm
SC	.52" / 13 mm	QuickSHOT®	.55" / 14 mm
E2000	.55" / 14 mm	Metal ferrules	.14" / 3.56 mm

- Clean fiber with alcohol or cellophane tape to remove any debris/dust. Open end of the Bare Fiber Adapter by pushing down on the **pressure foot**. Insert fiber into **entry hole** and push through until fiber comes out the end of the connector (Figure 1). Pull fiber back slowly until flush with connector face.

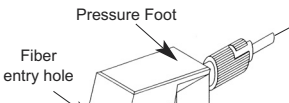


Figure 1

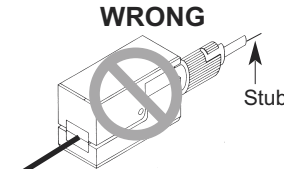


Figure 2

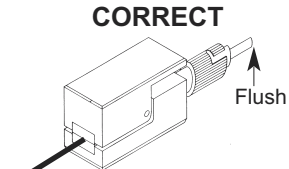


Figure 3

- Slowly release the pressure foot on the Bare Fiber Adapter securing the fiber between the foam pads. Connect to apparatus. CAUTION: To reduce the possibility of fiber end damage or damaging test equipment, be sure fiber is not protruding from connector face when connecting to apparatus (Figure 2 & 3).

Clean-out

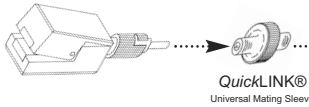
To clean-out a broken fiber or debris, unscrew the thumb screw and remove the connector module from the adapter body. Using the clean out wire supplied, insert the wire into the connector tip, see below, until you can push it all the way through the connector. Sometimes tapping the side of the connector shaft after running the wire through will assist in clearing the connector module. Place the connector module back into the adapter body and tighten the thumb screw.



Insert Clean-out Wire into ferrule end.

Alternative Setup

Connect the Bare Fiber Adapter to a jumper/patch cable using a QuickLINK® (not included) or standard mating sleeve. Connect and disconnect the end of jumper cable to test apparatus. This setup allows for the flexibility of multiple connections of one cleaved fiber, connecting to OTDR's and is also useful when connecting to hard to reach connector ports.

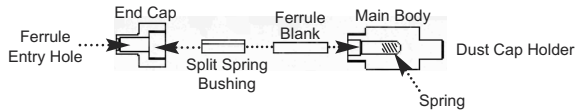
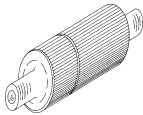


Connect to end of patch/jumper cable, then connect other end of patch/jumper cable to apparatus.

Precision Fiber Stop (NOT INCLUDED, Optional Accessory)

In certain environments it can be difficult to determine if a fiber is flush with the end of the connector face of a Bare Fiber Adapter. The flushness of the fiber is one of the determining factors associated with the quality of the connection. In some cases if the fiber is protruding from the ferrule, damage could result to the fiber end and possibly to the detector or lens of the test equipment. If the use of a patch cable is not an option (as explained in "Alternative Setup" above), the Precision Fiber Stop is an accessory used with the Bullet® Bare Fiber Adapter to assist in aligning the fiber flush with the connector ferrule.

Follow step 1 on the other side. Then, open the end of the Bullet® by pushing down on the pressure foot. Insert fiber into entry hole and push through until fiber comes out of the end of the connector (Figure 1 on other side). Pull fiber back approximately 1/2 the length of the ferrule. Release the pressure foot to secure the fiber. Remove dust cap from the PFS®. Slide the PFS® onto the ferrule of an ST, FC, SC or DIN Bare Fiber Adapter until it stops. Press down on the pressure foot and slowly push the fiber forward. Once the fiber stops release the pressure foot securing the fiber between the foam pads. Remove the PFS® from the Bare Fiber Adapter and replace the dust cap over the ferrule entry hole. Connect the Bullet® Bare Fiber Adapter to apparatus.



Maintenance

Clean foam pads and face of connector after each use if needed. Remove all debris or gel if used. Keep connector ferrule covered when not in use. Do not leave fiber in adapter when not in use.

Troubleshooting

If your problem is not listed, please do not hesitate to contact your national distributor or Fiber Plus International directly at 1-800-232-5487 or (570) 296-5124.

Fiber does not come out end of connector.

- Make sure dust cap is removed.
- Check the length of your bare fiber. You need a minimum amount of fiber exposed after cleaving in order for the fiber to reach the end of the connector face. Refer to table listed in Step 1 under "Instructions".
- Make sure connector module is not clogged with debris. Remove connector module from adapter body. Try inserting the fiber directly into the connector module. If fiber still does not go through, clean connector module out with clean-out wire. Refer to "Clean out" section for proper cleaning instructions.
- Verify fiber size. (Singlemode vs. Multimode)

Getting high loss or no reading when connecting to apparatus.

- Check to make sure fiber is flush with connector face. If you are unable to get flush, try using the Alternative Setup (shown above) using a QuickLINK® and a patch cable or the Precision Fiber Stop Accessory.
- You may have a bad cleave. Recleave your fiber and try again. The majority of problems are directly associated to the quality of the cleave.
- Make sure the end of your fiber is free of dust and/or debris as well as the connector port on the apparatus. MAKE SURE FIBER IS NOT ACTIVE WHEN INSPECTING FIBER ENDS. ALWAYS WEAR PROTECTIVE EYE WEAR!

Parts/Accessories

Clean-out Wire / Connector Modules		Bullet® Bare Fiber Adapters	
Part ID	Description	Part ID	Description
COKS-40	Vial of 40 pcs. of Clean-out Wire	NBG-12	ST Singlemode BFA
67370-B	Additional Adapter Body	NBG-03	ST Multimode 125uM BFA
67300-12	ST Singlemode Connector Module	NBG-14	FC Singlemode BFA
67400-03	ST Multimode 125uM Connector Module	NBG-05	FC Multimode 125uM BFA
67300-14	FC Singlemode Connector Module	NBG-15	SC Singlemode BFA
67400-05	FC Multimode 125uM Connector Module	NBG-06	SC Multimode 125uM BFA
67300-15	SC Singlemode Connector	NBG-18	LC Singlemode BFA
67400-06	SC Multimode 125uM Connector Module	NBG-02	SMA Multimode 125uM BFA
67400-02	SMA Multimode 125uM Connector Module		*140uM and other sizes available.
Accessories			
Part ID	Description	Part ID	Description
QL-U	QuickLINK® Universal 2.5mm Mating Sleeve	PFS-U	PFS® Universal 2.5mm Precision Fiber Stop

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NBG Series

Bullet®
Bare Fiber Adapter

