



# Newport

## Bare Fiber Adapter/Tester

### ■ Bare Fiber Adapter/Tester

Newport's Bare Fiber Adapter (Tester) is a device that quickly connects unterminated (bare) fiber to OTDR's or other fiber optic test equipment. Simply strip the fiber, cleave or scribe and insert into the Fiber Module. In an instant, the fiber is connected to your OTDR with low loss and low reflectance.



Parts included:

- Fiber Module (A) with 1 Meter Patch Cable (B)
- 2 Sealed OCC Cartridges (C)
- Clean-out Wire (D)
- Carry Case (E)
- Dust Cap for end of OCC cartridge when loaded in Fiber Module (not shown)

Items not included which may be required:

- Optical Strippers
- Scribe or Cleaver
- Cleaning Wipes/Pads
- OTDR Launch Cable

### ■ Loading an OCC Cartridge

#### ⚠ Before you begin: Load Cartridge

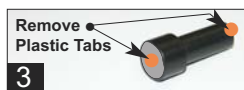
An OCC cartridge needs to be loaded into the Fiber Module before use. Two sealed cartridges are included in the case.



1 You do not need to remove the Fiber module from the patch cable when loading a cartridge.



2 Unscrew and remove the End Cap which will expose the sleeve.



3 Remove the two plastic tabs (located on each end) from one of the OCC cartridges included. Leave remaining cartridge sealed until ready for use.



4 After removing the tabs from the OCC cartridge, push the larger end into the sleeve.



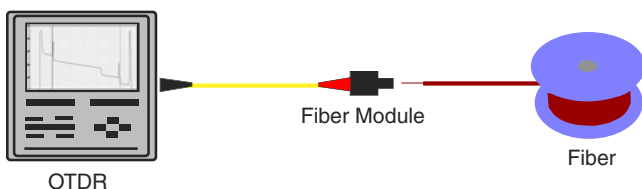
5 Screw on the End Cap until it stops. The Fiber Module is now loaded and ready for use. Place the dust cap included in the case (not shown) onto the end of the cartridge protruding from the Fiber module when storing the unit.

### ■ Instructions

- Connect patch cable to OTDR or test equipment.
- Break out a few inches of the fiber to be tested down to 250uM buffer. Strip fiber down to 125uM cladding. Cleave (optional) or Scribe and break fiber leaving at minimum of 3/4" of fiber. Clean or wipe off fiber if needed.
- Insert your prepared bare fiber end into the round opening on the end of the OCC cartridge protruding from the Fiber module.

The bare fiber will be stopped by the attached patch cable assembly. If a connection is not made on the first insertion, pull the fiber back slightly into the module and push forward again. If using uncleaved fiber and are unable to get a successful connection after a few attempts, remove the fiber and rebreak or cut the fiber again.

- Proceed with testing.



⚠ **Caution:** Always wear protective eyewear when working with bare or active fiber. Never look into the end of the Fiber Module when patch cable is connected to active test equipment.

### ■ Maintenance

Occasionally you may have to clean the connector on the patch cable (identified with the red boot) and/or both ends of the ferrule assembly inside the Fiber Module. The ferrule assembly can be removed from the bulkhead housing and cleaned or immersed in alcohol. To remove the Fiber Module from the Patch Cable simply loosen the LiteLOCK® dial by rotating it slightly to the left and pull the connector out from the interface. To reconnect the patch cable, insert the connector with the red boot into the Universal Bulkhead Housing. Push the ferrule of the connector into the 2.5mm interface and secure by rotating the LiteLOCK® dial to the right. Do not overtighten. The LiteLOCK® dial can also be unscrewed from the bulkhead housing in order to clean or replace the zirconia sleeve. Over time, especially if inserting non-cleaved fiber, the patch cable mated to the Fiber module will wear and may need to be replaced. Additional cables are available as accessories.

If fiber happens to break off inside the ferrule assembly, clean-out wire is supplied to remove any debris. Disconnect the patch cable from the Fiber Module by rotating the LiteLOCK® dial slightly to the left and pull the connector out from the interface. Remove the end cap, OCC cartridge and sleeve. Pull the ferrule assembly out of the bulkhead housing. Insert clean-out wire into the ferrule to clean out any broken fiber or debris. Reassemble the Fiber Module and insert the connector with the red boot from the patch cable into the Universal Bulkhead Housing and secure by rotating the LiteLOCK® dial to the right. Do not overtighten.



### ■ Cartridge Replacement

The OCC cartridge is filled with optical coupling compound and under normal use will typically produce a minimum of 500 insertions. The cartridge needs to be replaced when you start to experience inconsistent launches. In some cases, especially over prolonged use, debris can build up in the cavity on the tip of the Ferrule Assembly which will cause inconsistency in the connection. Before replacing the cartridge, clean out the ferrule assembly. Please refer to the front of this sheet for instructions on how to replace (load) the Optical Compound Cartridge.

### ■ Specifications

- Fiber type: Singlemode 9/125uM, Multimode 62.5/125uM or Multimode 50/125uM
- Cable length: 1 meter
- Number of insertions (Typical): 1000 min. (500 min. per cartridge, 2 cartridges included)
- Insertion loss (Typical): < 0.5 dB (uncleaved fiber < 0.8dB)
- Back Reflection (Typical): < 45 dB
- Operating temp.: 10° C to 30° C

### ■ Accessories

- XXXX-XXXX Replacement OCC Cartridges (3 pack)
- XXXX-XXXX Replacement OCC Cartridges (12 pack)
- Patch Cable Assembly
- OTDR Launch Reel/Cable (for use with OTDR's)

© 2008 Newport Corporation. All rights reserved. All data subject to change. ST is a registered trademark of AT&T. Products protected by numerous U.S. and international patents and patents pending. Newport reserves the right to improve, enhance or modify the features and specifications of products without prior notification.

Newport Corporation  
1791 Deere Avenue, Irvine, CA 92606  
Phone: 949/863-3144, 800/222-6440 Fax: 949/253-1680  
Internet: www.newport.com

Newport



Newport

Bare Fiber Adapter/Tester