

Bare fiber coupler

The Divot™ is designed to quickly connect to unterminated (bare fiber) for testing, servicing or communication requirements. All you have to do is connect the patch cable to your test equipment and insert bare fiber into the end of the Divot™ module. Preparation of the bare fiber is easy. Simply strip and clean a few inches of fiber down to 125µm cladding, leaving approximately 3/4" of bare fiber exposed. Insert the bare fiber into the Divot™ module until it stops. The device will accept a non-cleaved fiber with a typical insertion loss of less than 0.5 dB. Cleaved fiber will result in even lower insertion loss. Connections are suitable for many testing applications with results similar to a standard terminated piece of fiber.

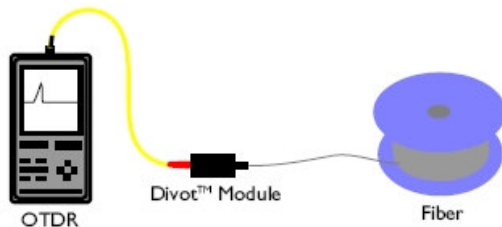


How it works

The bare fiber when inserted into the Divot™ Module, goes through a cartridge which is filled with an optical coupling compound. The compound is applied to the end of the fiber as it passes through the cartridge, then enters into a custom ferrule which has a small divot on the end. The divot creates a small cavity at the end of the ferrule which retains the optical coupling compound from the inserted bare fiber end. The bare fiber is then mated to a precisely aligned ferrule on the patch cable resulting in a quick, low loss connection suitable for most testing applications.



To replace a cartridge, simply disconnect the patch cable from the universal LiteLOCK® interface by rotating the dial to the left. Unscrew and remove the end cap on the module to expose the OCC (Optical Coupling Compound) Cartridge. Pull the cartridge out of the sleeve and replace with a new cartridge. Screw the end cap back onto the module. Insert the the connector with the red boot on the patch cable into the universal LiteLOCK® interface and rotate the dial to the right to secure.



Maintenance

The Divot™ Module can be easily disassembled for cleaning or maintenance. Occasionally you may have to clean the ferrule on the patch cable and the ferrule in the Divot™ Module. The Divot™ ferrule assembly can be totally removed from the housing and cleaned or immersed in alcohol. If fiber happens to break off inside the ferrule assembly, clean-out wire is supplied to remove any debris. The patch cable connected to the Divot™ Module should be cleaned periodically to maintain optimum performance. Over time, especially if inserting non-cleaved fiber, the patch cable mated to the Divot™ module will wear and need to be replaced. Additional cables and cartridges are available as accessories.

Replaceable Cartridges

The Divot™ Module can be easily disassembled in order to replace the internal cartridge. Every insertion of bare fiber will use a small amount of coupling compound from the cartridge. A cartridge will typically result in a minimum of 500 insertions.

Specifications

Fiber type:	Singlemode 9/125µm, Multimode 62.5/125µm or Multimode 50/125µm
Cable length:	1 meter
Connector styles:	FC, ST®, SC, FC/APC, SC/APC, D4, LC, DIN, E2000
Number of Insertions:	1000 min. (500 min. per cartridge, 2 cartridges included)
Insertion loss (Typical):	< 0.5 dB (base on an deaved fiber end, uncleaved < 0.8 dB)
Back Reflection (Typical):	< 45 dB
Case Dimensions:	6.50" [L] x 4.50" [W] x 1.50" [H]
Operating temp.:	10° C to +30° C

Items Included



Ordering Information

DVT-S1	Divot™ Bare Fiber Tester - FC Singlemode
DVT-S2	Divot™ Bare Fiber Tester - ST Singlemode
DVT-S3	Divot™ Bare Fiber Tester - SC Singlemode
DVT-S4	Divot™ Bare Fiber Tester - FC/APC Singlemode
DVT-S5	Divot™ Bare Fiber Tester - SC/APC Singlemode
DVT-M1	Divot™ Bare Fiber Tester - FC Multimode 62.5/125
DVT-M2	Divot™ Bare Fiber Tester - ST Multimode 62.5/125
DVT-M3	Divot™ Bare Fiber Tester - SC Multimode 62.5/125
DVT-B1	Divot™ Bare Fiber Tester - FC Multimode 50/125
DVT-B2	Divot™ Bare Fiber Tester - ST Multimode 50/125
DVT-B3	Divot™ Bare Fiber Tester - SC Multimode 50/125

* Other connector styles and fiber types available.

Accessories

DVT-RC3	Divot™ Replacement OCC Cartridge (Pack of 3)
DVT-RC12	Divot™ Replacement OCC Cartridge (Pack of 12)