



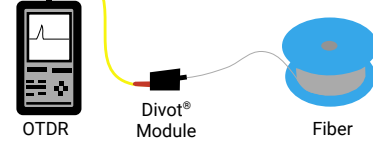
## Divot® Bare Fiber Testing Device DVT



### Features / Benefits:

- Internal replaceable cartridge filled with optical coupling compound
- No dipping, messy applicators or external reservoirs to fill
- Quickly test fiber without terminating
- Accepts non-cleaved fiber
- Low insertion loss
- Repeatable and Reusable
- LiteLOCK® Technology

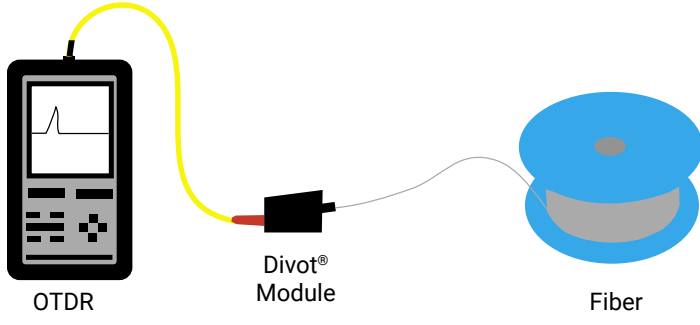
Spend your time testing, not connecting. Quickly connect test equipment to bare fiber. System utilizes replaceable index matching gel cartridges resulting in quick low loss and low reflectance connections to your OTDR or other test systems.



The Divot® is designed to quickly connect to unterminated fiber for testing, servicing or communication requirements. Connect the patch cable included with the system 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. Cleave fiber leaving approximately 3/4" of bare fiber exposed. OTDR 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 0.8dB. 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.



### 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 yield a minimum of 500 insertions.



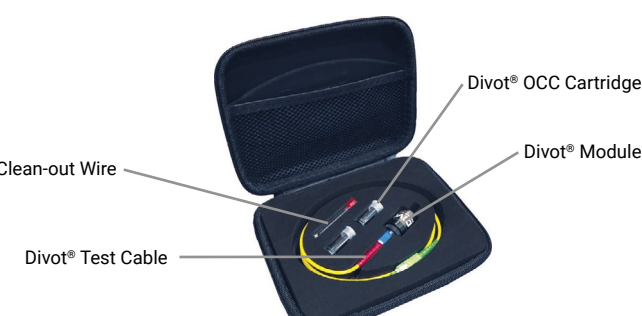
To replace a cartridge, simply disconnect the patch cable from the universal LiteLOCK® interface by rotating the dial to the left. Unscrew and remove the end cap on the module to expose the OCC (Optical Coupling Compound) Cartridge. Pull the cartridge out of the sleeve and replace with a new cartridge.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

### DVT Kit Includes:

- Divot® Module
- Divot® Test Cable
- (2) OCC Cartridges with a combined typical yield of 1000 insertions
- Vial of Clean-out Wire
- Carry Case



### Specifications

Fiber Type:	Singlemode 9/125µm, Multimode 62.5/125µm or Multimode 50/125µm OM2
Cable length:	1 meter
Connector styles:	FC, ST®, SC, FC/APC, SC/APC, LC, LC/APC
Number of insertions:	1000 min. (500 min. per cartridge, 2 cartridges included)
Insertion loss (Typ):	< 0.5 dB (base on a cleaved fiber end, uncleaned < 0.8 dB)
Bank Reflection (Typ):	< 45 dB
Case Dimensions:	6.50" [L] x 4.50" [W] x 1.50" [H]
Operating temp:	-10o C to +40o C

**SHOP NOW**  
DVT-S3

**SHOP NOW**  
DVT-S5

### Ordering Information \*Other combinations available

- Single Cable**
- 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-S7 Divot® Bare Fiber Tester - LC Singlemode
  - DVT-SX Divot® Bare Fiber Tester - LC/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 OM2
  - DVT-B2 Divot® Bare Fiber Tester - ST Multimode 50/125 OM2
  - DVT-B3 Divot® Bare Fiber Tester - SC Multimode 50/125 OM2
- Two Cables**
- DVT-SM1 Divot® Bare Fiber Tester - FC SM & MM 62.5
  - DVT-SM2 Divot® Bare Fiber Tester - ST SM & MM 62.5
  - DVT-SM3 Divot® Bare Fiber Tester - SC SM & MM 62.5
  - DVT-S3S Divot® Bare Fiber Tester - SC SM & SC/APC SM
  - DVT-S5M3 Divot® Bare Fiber Tester - SC/APC SM & SC MM 62.5
- Three Cables**
- DVT-SMB1 Divot® Bare Fiber Tester - FC SM, MM 62.5 & MM 50 OM2
  - DVT-SMB2 Divot® Bare Fiber Tester - ST SM, MM 62.5 & MM 50 OM2
  - DVT-SMB3 Divot® Bare Fiber Tester - SC SM, MM 62.5 & MM 50 OM2
- Accessories**
- DVT-RC3 Divot® Replacement OCC Cartridge (Pack of 3)
  - DVT-RC12 Divot® Replacement OCC Cartridge (Pack of 12)

## Series 5 DZE® OTDR Launch Box

### Applications:

- OTDR Launch Cable/Lead
- Equipment Calibration
- System emulation of loss, length, time delay and reflectance

### Features / Benefits:

- Use as a Pulse Suppressor, OTDR Launch Cable, Delay Line, Training, Product Demonstrations, Calibration
- Prevents fiber damage and stress during use or transportation
- Rugged light weight carry case
- Portable for field use
- Custom length configurations available for OTDR applications
- Comply with ISO/IEC 14763-32006 optical link testing standards by using a DZE® launch and receive lead at the end of each link
- Fiber lengths up to 5000 meters



The DZE® OTDR Launch Cable is designed to aid in the testing of fiber optic cable when using an OTDR to help minimize the effects of the OTDR's launch pulse on fiber under test and a DZE® receive cable at the end of the fiber under test allows the ability to perform loss measurements on entire length of the fiber.

Units are available in any length up to 5 km and housed in a compact rugged carry case. Simply specify the fiber type required, length and connector choice for the input and output lead. Standard lead length is 2 meters.

### Specifications

Series 5 DZE® OTDR Launch Cable	
Dimensions	Length: 8.7", Width: 7.5", Height: 3.9"
Fiber length (m)	150, 300, 500, 1000, 1500, 5000 (max) *Other lengths available
Fiber types	Singlemode 9/125, Multimode 62.5/125, Multimode 50/125 OM2, Multimode 50/125 OM3
Lead length	2 Meters, 3mm buffer
Connector insertion loss	<0.3 dB typical, <0.5 dB max
Connector reflectance	UPC: <-55 dB, APC: <-65 dB
Mating reliability	<.2 dB
Connector geometries	All connectors meet or exceed Telcordia GR-326 Core Specification
Storage temp.	-40° to +85° C
Operating temp.	-40° to +85° C
Humidity	0 to 95%, non-condensing
Weight	1.5 lbs (w/out fiber)
Warranty	1-year (Warranty covers any manufacturing defects. Connector and lead replacement due to use are not covered under warranty.)

Fiber Type	Wavelength	Typical attenuation
Singlemode 9/125 µm (OS1)	1310 nm & 1550 nm	0.35 dB/km & 0.20 dB/km
Multimode 62.5/125 µm (OM1)	850 nm & 1300 nm	2.9 dB/km & 0.60 dB/km
Multimode 50/125 µm (OM2/OM3)	850 nm & 1300 nm	2.3 dB/km & 0.60 dB/km

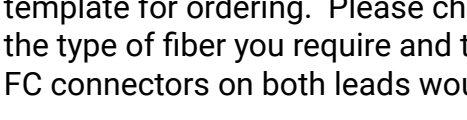
\* Please note: All launch cable spools are OTDR tested at 1625nm for macro/micro bends thus eliminating unnecessary OTDR events.

**SHOP NOW**  
D53T-S150

**SHOP NOW**  
D53T-S500

### Part Number Table

The Series 5 DZE® Launch Box is available with Singlemode 9/125, Multimode 62.5/125, Multimode 50/125 OM2 and Multimode 50/125 OM3 fiber. The diagram shown below displays the part number template for ordering. Please choose the Connector Code for the leads (input and output), Fiber Code for the type of fiber you require and the Length (in meters). For example, a 1000 meter singlemode unit with FC connectors on both leads would be D511-S1000. Standard lead length is 2 meters.



- \* Connector Styles/Codes for leads:**
- 1 - FC
  - 2 - ST®
  - 3 - SC
  - 4 - FC/APC
  - 5 - SC/APC

- Fiber:**
- S - Singlemode
  - M - Multimode 6.25/125
  - B - Multimode 50/125 OM2
  - C - Multimode 50/125 OM3



\* All connectors are standards compliant reference connectors, machined polished with ceramic ferrules and interferometer tested.