

Portable Launch Box (PLB)



Applications

- OTDR Launch Fiber
- Network System Simulation of Loss, Length, and Time Delay
- Equipment Calibration
- Product Demonstrations
- Training Aid
- Research and Development Reference Fiber

Key Features & Benefits

- Rugged Case Protects Fiber During Use and Transit
- Lightweight, Waterproof Unit
- Variety of Fiber Lengths and Connector Types Available
- Continuous Fiber Span with no Fusion Splices
- Dual Fiber Configurations Available in Single Unit
- Capable of Holding Lengths up to 25km

Overview

OptiConcepts Portable Launch Box provides a calibrated span of optical fiber to evaluate near-end connectors and anomalies in network fiber systems. The Launch Box is placed between the system under test and an OTDR (Optical Time Domain Reflectometer) to improve the OTDR's ability to identify passive system components and abnormalities during system qualification and troubleshooting.

Full-Featured Design Offers Maximum Protection and Versatility

Our full-featured design stores both the optical fiber and access connectors in a light-weight, rugged transit case that protects the sensitive optical components against harsh outside plant installation and maintenance environments. For long haul testing, OptiConcepts Launch Boxes are capable of holding single-mode or multimode fiber lengths up to 25 kilometers. Custom lengths and various connector styles are available, providing ultimate convenience and portability.

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Get the Whole Picture

An OTDR's inability to detect near-end fiber optic connectors at the patch panel severely reduces its testing effectiveness. This is due to the relatively slow recovery time of laser pulses reflecting off the OTDR bulkhead connector and subsequently being displayed on the monitor. Using a properly calibrated portable launch box is the solution. The number of backscatter data points is increased via the launch box prior to the first connector pair. A reflective pulse on the OTDR screen then properly depicts the patch panel connection.

The Confusion with Fusion

Unlike other launch boxes, OptiConcepts Launch Box is directly connectorized to provide a continuous, high quality link for testing. A fused pigtail within several meters of each connector tip cannot be independently identified on the OTDR and increases the apparent loss of each connector. This reduces the near-end measurement accuracy of the OTDR. OptiConcepts Launch Box is fuse free to deliver optimum test results.

Specifications

Fiber Types: Single-mode, Multimode 50/125um, Multimode 62.5/125um

Fiber Length: 100 meters (328 ft.) to 25 kilometers (82,000 ft)

Dimensions: 9.25" x 7.75" x 4.5" (23.5cm x 19.7cm x 11.4cm) – 100 m to 5000 m length
16" x 10.5" x 6" (40.6cm x 26.7cm x 15.24cm) – 5000m to 25 km length

Weight: < 4 lbs. (1.8kg) to < 15 lbs. (6.8 kg)

Temperature Range: -40° to 122°F (-40° to 50°C)

Humidity: 0 to 95%

Max Fibers per Unit: 2

Connector Type: FC, SC, ST, LC, MTRJ – Ultra and Angled Varieties (other styles available upon request)

Unit Color: Black; other colors available upon request

Ordering Information

PLB Standard Part Number Configuration

PLB-ABCD-EF

[PN Example: PLB-1ISS-500M – FC/FC, Single-mode Simplex; 500 meters]

A) First Connector Type

FC=1 FC Angle=2 SC=3 SC Angle=4 ST=5 LC=6 None=X

B) Second Connector Type

FC=1 FC Angle=2 SC=3 SC Angle=4 ST=5 LC=6 None=X

C) Fiber Type

Single-mode=S Multimode 50um=5 Multimode 62.5um=6

D) Fiber Count

S=Simplex D=Duplex

E) Fiber Length

1-3 digit number depending on length

F) Unit of Measure

Meter=M Kilometer=K Feet=F

Quality Statement

OptiConcepts is committed to providing high quality, easy to use test equipment by integrating customer needs into world class engineered products and systems.



designed and built in America

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