

OWL Optical Length Tester Technology

OWL optical length testers offers a unique, low-cost alternative for users who need to measure the length of optical fibers. Fiber installations are increasingly required to have fiber length measurements to comply with bid requirements. Rather than purchasing a new certification test set that can cost thousands of dollars, these items can be added to an installer's existing fiber test kit. OWL length testers use a "round-robin" method of measuring fiber length. This is accomplished by looping back two fibers at one end of the fiber run with a patch cord. The round trip time that the light takes to travel through both fibers is converted to length in kilometers, then divided by two to show the length of the fiber cable. There is no need to measure the length of all the fibers; the length measurement can be applied to all fibers in the cable. This method of length testing provides accurate measurements, and saves time and money. Measuring fiber by the jacket or manual length measurement are accepted methods of measurement; however, there are many scenarios where this may not be possible. Length markings may be hard to reach if they are already terminated in a patch panel, and links that contain multiple interconnects would need each segment inspected for jacket markings. Optical measurement of fiber produces accurate results without the need for jacket markings or manual length measurement.

Beaming Optical Length Tester (BOLT-NL) Description

The BOLT-NL can measure fiber links of up to 25 kilometers, and is accurate to within ± 2.5 meters. Each unit comes with a protective rubber boot, carrying strap, 9-volt battery, and CD-ROM with operations manual.

Specifications

Range	up to 25 km
Accuracy	± 2.5 m (7 feet)
Resolution	0.001 km (1 meter)
Other Function	2 kHz tone mode for use with fiber identifiers

Ordering Info

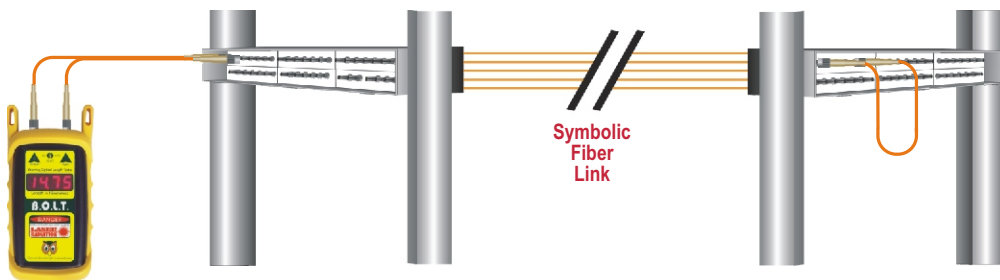
BOLT-NL	Beaming Optical Length Tester	575.00
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Note: display enhanced for photographic effect



Application #1: Fiber Length Measurement

The BOLT-NL is designed to measure the length of optical fiber links up to 25km, and is accurate to ± 2.5 meters! The BOLT-NL uses a "round-robin" method of measuring fiber length. This is accomplished by looping back two fibers at one end of the fiber run. The round trip time that the light takes to travel through the fibers is converted to length in kilometers, then divided by two to show the length of the fiber cable. There is no need to measure the length of all the fibers; the length measurement can be applied to all fibers in the cable. The BOLT-NL can also be used to verify the amount of fiber on a spool prior to installation simply by connecting to the ends of the spool and multiplying the displayed fiber length by two.



NOTE: the BOLT-NL is not an OTDR-like device. It does not measure distance to a fault. It is designed to measure the total length of a fiber link based on a two-fiber loopback method.