



TESTING SERVICES

In order to better serve our customers, Linden Photonics has acquired and developed specialty testing equipment that enables us to characterize our products to very specific test standards that are important in the various industries we serve. We offer both testing services and equipment for purchase. Many of our specialty pieces of test equipment cannot be purchased elsewhere commercially and can be modified to meet your specific requirements.

PRESSURE TESTING

The Pressure Tester is designed to test cable for affects of pressure corresponding to a depth of >1.25 miles

- Measure optical loss up to 3 kpsi hydrostatic pressure.
- Provide OTDR plots of loss at pressure
- Long term pressure testing
- Max spool size: 11.5" diameter x 18" traverse
- Max Cable OD: 3mm

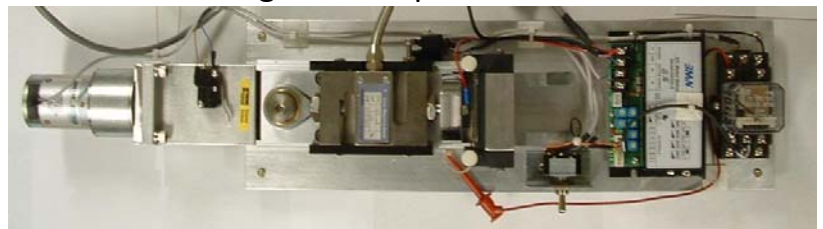


DYNAMIC CUT-THROUGH TESTING

The Dynamic Cut-Through Tester measures the resistance of a wire insulation to the penetration of a cutting surface and simulates the type of damage that may occur when a wire is forced against a sharp edge. Units for purchase or testing services provided.

Meets Specifications

- SAE AS4373 Method 703
- ASTM D 3032-04; Section 22.2



FLEX LIFE TESTING

The Flex Tester is designed to determine the ability of insulated wire or fiber to withstand repeated mechanical flexing. Units for purchase or testing services provided

Meets Specification

- SAE AS4373 Method 704
- Variable cycle rate





NEEDLE ABRASION TESTING

The Needle Abrasion Tester is designed to evaluate abrasion resistance properties of composite wire constructions over operating temperature levels. Meets Specification EN 3475 & AS 4373 method 701

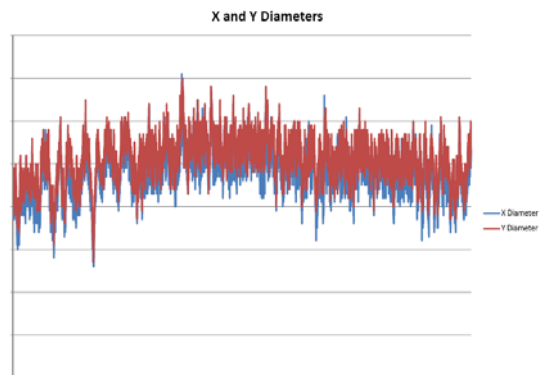
- Tests from room Temperature to 260 °C
- Abrasion needle 0.50 mm (19.7 mil) dia. polished nickel coated
- Record cycles to conductor exposure



RESPOOLING AND CABLE CHARACTERIZATION

Our Cable Diameter Characterization Services provides an end-to-end analysis of your cable jacket diameter.

- Spools up to 60 lbs
- O.D. range 0.1 – 10mm
- Resolution - 0.00001mm
- Accuracy - +/-0.0005mm
- 2400 scans/second
- Report including O.D. & Ovality charts, St.Dev., Avg., Max, Min



THERMAL CYCLING / CABLE PRECONDITIONING

Thermal cycling of fiber optic cables (with active optical monitoring) or other small components.

- -70°C to 180°C Temperature Range
- Ramp rate of 3.5°C/min
- Temperature Fluctuation $\pm 0.5^\circ\text{C}$ per IEC 60068 3-5
- Fully programmable cycling profile
- Interior volume: 42L

