



Fiberdyne Labs, Inc. Fiber Characterization



Limits and Thresholds (typical)

- ORL = 27 dB min.
- Loss Readings = 0.25dB/Km + 0.3dB/splice + 0.5dB/connector pair (bi-directional)
- OTDR = 0.25dB/Km + 0.3dB/splice + 0.5dB/connector pair (bi-directional)
- PMD = 10 ps for 10 GB/s
- CD = 1040 ps/nm for 10 GB/s



List of Standards

- **Power Loss** - FOTP-171 / EIA-455-171 Attenuation by Substitution Measurement for short length Multi-mode graded index and Single-mode optical fiber cable assemblies
- **Optical Return Loss (ORL)** - FOTP-107 / TIA/EIA-455-107A Return Loss for Fiber optic components
- **OTDR** - FOTP-59 / TIA/EIA-455-8 Measurement of Fiber Point Discontinuities Using an OTDR and FOTP-8 TIA/EIA
- **PMD** - TIA-455-124 – FOTP124 – Polarization-mode Dispersion Measurement for Single-mode Optical Fibers by Interferometry Method
- **Chromatic Dispersion** - FOTP-175 / TIA-455-175-B Measurement Methods and Test Procedures-Chromatic Dispersion