

Fluke Single-Mode Fiber Optic Test Report



Article Overview

A Fluke single-mode fiber optic test report documents fiber loss, connector inspection, and link performance using Fluke Networks tools like CertiFiber Pro and LinkWare.

Overview of Single-Mode Fiber Testing

Fluke Networks provides several tools for testing single-mode fibers, including the CertiFiber Pro OLTS, OptiFiber Pro OTDR, and SimpliFiber Pro Optical Power Meter. These instruments measure optical loss, verify link integrity, and inspect connector end-faces to ensure compliance with industry standards. Single-mode testing is essential for long-distance links, PON networks, and simplex applications such as CCTV.

Setting Up a Single-Mode Test

- **Select the Test Module:** On the CertiFiber Pro, choose the module for single-mode testing.
- **Configure Test Parameters:** Set the fiber type to OS2 Singlemode, select the connector type (e.g., SC or LC), and choose the appropriate test limit, such as General Fiber Optic or a custom fixed loss limit.
- **Far-End Source Testing:** For single fibers, configure the tester to measure loss from one end. Note that length may not be reported in simplex testing.
- **Inspection:** Use the FI-1000 FiberInspector or the CertiFiber Pro USB camera to inspect and grade connector end-faces according to IEC 61300-3-35 standards. Cle...

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