

Fiber Optics Testing

Comprehensive testing and qualifying services for the military and aerospace markets



Experior Laboratories is an experienced testing and qualification laboratory with proven success in the fiber optics industry. Combining extensive industry knowledge, standards development experience and world-class competence, Experior offers a full range of reliable and cost-effective fiber optic qualification, design verification and reliability testing services to the military and aerospace industries.

Experior tests a broad range of military and aerospace fiber optic components that include termini, connectors, backshells, optical fiber and cable, fiber optic harnesses and cable assemblies, splitters, WDM and DWDM components, to modules and systems. A full in-house environmental test laboratory features a range of optical measurement systems with a capacity for hundreds of optical switch channels to test both multimode and single-mode components.

Experior is approved to MIL-STD-790 by the Defense Supply Center Columbus in Ohio (DSCC) for testing of various fiber optic components and connectors.

- MIL-PRF-49291 Optical Fiber
- MIL-PRF-29504 Fiber Optic Termini
- MIL-PRF-28876 Fiber Optic Circular Connector for Shipboard Applications
- MIL-DTL-83526 Fiber Optic Circular Connector for Tactical Military Applications
- MIL-PRF-64266 Fiber Optic Next Generation Circular Connector System for Both Ground and Aerospace Applications (*pending*)
- MIL-C-83522 Fiber Optic Single Terminus Connector (*pending*)

All testing is conducted in strict accordance with standardized fiber optic test methods, Fiber Optic Test Procedures (FOTP) and international IEC standardized test methods – as well as many other industry standards.

Experior is an ISO/IEC-17025:2005 accredited testing facility that combines optical measurement expertise with environmental and mechanical testing capabilities. Internal capabilities range from climatic (temperature/humidity, thermal shock, thermal aging) to mechanical (vibration, tensile / flex / twist, shock, impact) to material tests (corrosion / salt fog, fluid immersion, flammability, rockwell hardness, etc.).

Experior Laboratories . . . helping customers ensure the reliability of their products and reduce the overall time-to-market.