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New work project in the SAE develops guideline document for fiber optics in non commercial aircraft

Many platforms including various military aircraft are using fiber optic networks for a suite of functions. A new effort within the SAE AS-3 JELLI-Group (<http://aerospace.sae.org/>) now seeks to bring best practices and standardized procedures together into one series of documents. JELLI stands for **J**umpers, **E**ndfaces, **L**ink-**L**oss, and **I**nspection.

The scope of the group is as follows:

1. Define/characterize the MIL/AERO fiber optic jumper and terminus/ferrule endface configuration
2. Create SAE document(s) that define MIL/AERO fiber optic terminus endface geometry specifications, MIL/AERO fiber optic terminus endface inspection specifications, MIL/AERO fiber optic terminus endface methods, and methods for measuring link loss in MIL/AERO fiber optic cable plants.
3. Delineate support equipment considerations to perform the endface geometry, endface inspection, and fiber optic link loss processes.

...for the purpose of providing the MIL/AERO fiber optic technical community with a single source of specifications / information for:

- 1) Aerospace Measurement Quality Jumpers (AMQJs) / Test Leads
- 2) Aerospace fiber optic terminus endface geometry
- 3) Aerospace fiber optic terminus inspection methodology
- 4) Aerospace fiber optic link loss measurement

The group is working in a parallel effort and benefits from participation of industry veterans who have been involved with fiber optics for years. These individuals come together from industry leading companies in an effort to harmonize procedures and practices. Here is the breakdown of the group:

AS-3C3A Aerospace FO Terminus Endface Geometry Specification

Working Grouping Lead: Tony Christopher, kSARIA

AS-3C3B Aerospace Reference Jumper/Test Lead Specification

Working Grouping Lead: Dennis Horwitz, Micronor

AS-3C3C Aerospace Fiber Optic Link Loss Specification

Working Grouping Lead: Lorenz Cartellieri, Experior Photonics

AS-3C3D Aerospace FO Terminus Endface Inspection

Working Grouping Lead: Bill Troemmel, Aerotech World Trade

For participation or more information on this effort contact the AS-3C (Fiber Optic Components)

Chairman Mark Beranek (NAVAIR, ph: 301-342-9115) and / or the JELLI task group chair Doug Parker (Tempo Research Corporation, ph: 805-384-1834).

About Experior Photonics

Headquartered in Newbury Park, Calif., Experior Photonics is a specialist in providing fiber optic calibration and qualification/design verification testing services to industry, including manufacturers, integrators and end-users. Services cover a wide range of fiber optic applications, e.g. telecom, datacom, military, aerospace, and industrial markets. Test services include Bellcore/Telcordia, MIL-STD and other industry/standards based testing. Today, Experior Photonics is the only commercial testing services laboratory focusing solely on fiber optic component testing – and the first to be specifically ISO accredited in this area.

For more information about Experior Photonics' fiber optic component testing services, please contact Lorenz Cartellieri at (805) 499-3000, or Email lcartellieri@experiorphotonics.com.