SAE International

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Fact Sheet

SAE Technical Committee AS-3 Fiber Optics and Applied Photonics

Chairperson: William Woodward, URSA NAV
Vice Chairperson: Donald Stone, Kitco Fiber Optics
Secretary: Mark Messer, Carlisle Interconnect Technologies

The SAE AS-3 Fiber Optics and Applied Photonics committee addresses all facets of fiber optics systems and applied photonics–design, maintenance, and in-service experience. It provides definition and support, and assures standardized components and systems approaches for fiber optic data buses. This includes sensors, architecture, and requirements for advanced fiber and electro optic technologies. The group is comprised of four subcommittees dedicated to creating, preparing, and maintaining all relevant specifications, standards, and requirements for fiber optics and applied photonics systems. These subcommittees include:

AS-3A Fiber Optic Applications
AS-3B Fiber Optic Supportability
AS-3C Fiber Optic Components
AS-3D Fiber Optic Process Definition

Participants in the SAE AS-3 committee include OEMs, suppliers, aircraft fiber optics and applied photonics systems companies, consulting firms, government and others across the aerospace and defense industries.

Standard development / revision activities

- AIR6162 Fusion Splicing for Optical Fibers
- AIR6552 Measure, Store, and Access F.O. Transceiver Test Data
- ARP5061A Guidelines for Testing and Support of Aerospace, Fiber Optic, Inter-Connect Systems
- ARP5602/3A A Guideline for Aerospace Platform Fiber Optic Training and Awareness Education Aerospace Fiber Optics Fabricator Knowledge Competencies
- ARP5602/4A A Guideline for Aerospace Platform Fiber Optic Training and Awareness Education Aerorspace Fiber Optics Fabricator Hands-on Competencies
- ARP5602A A Guideline for Aerospace Platform Fiber Optic Training and Awareness Education
- ARP6008 Fiber Optic System Design Guidelines
- ARP6017 Supplemental to AS50881 - Recommended Practices For Aerospace Fiber Optic Cable Plant Installation Design
- ARP6112 Expaned Beam User Guide
- ARP6180 A Guideline for Aerospace Platform Photonics Training and Awareness Education
- AS6021 Aerospace Fiber Optic Cable Assembly Drawing Specification
- AS6479 Splicer, Fusion, Fiber Optic

Recently published documents

- AIR6031 Fiber Optic Cleaning
- AS6456 Aerospace Analog Fiber Optic Link
- AS5675 Characterization and Requirements for New Aerospace Fiber Optic Cable Assemblies - Jumpers, End Face Geometry, Link Loss Measurement, and Inspection
- AIR6113 Fiber Optic Interface Control Document Format
- AS5603A Digital Fiber Optic Link Loss Budget Methodology for Aerospace Platforms
- ARP5602 A Guideline for Aerospace Platform Fiber Optic Training and Awareness Education
- AS5750A Loss Budget Specification for Fiber Optic Links
- AIR5667 Fiber Optic Wavelength Division Multiplexed (WDM) Singlemode Interconnect and Component Standards Mapping for Aerospace Platform Applications - Device Level Specification
- AIR6004 Optical Networking Terminology
- AIR6005 General Requirements for WDM Backbone Networks
- AIR6006 Modeling and Simulation Capabilities for Aerospace WDM LAN Applications

One world. One standard. One source.

Join an SAE Aerospace Technical Standards committee.

See for yourself the SAE standardization process in action at these upcoming meeting(s) of the AS-3 Fiber Optics and Applied Photonics Committee:

April 22-25, 2013
Jacksonville, Florida

October 21-24, 2013
Portland, Maine

For more information or to participate the AS-3 Committee, contact:

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