



## SAE TECHNICAL COMMITTEE AS-3 FIBER OPTICS AND APPLIED PHOTONICS

### Fact Sheet

The **SAE AS-3 Fiber Optics and Applied Photonics** committee addresses all facets of fiber optics systems and applied photonics from design, maintenance, training, and testing to interconnects, splicing, inspection and cleaning. It serves as an industry forum to establish definitions and standards for components and systems approaches to fiber optic data buses. This support applies to sensors, architecture, and requirements for advanced fiber and electro optic technologies. Four subcommittees develop, coordinate, and maintain 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.

For additional information on this SAE Technical Standards Committee, please visit:

<http://www.sae.org/servlets/works/committeeHome.do?comtID=TEAAS3>

### Examples of standards development/revision activities

- AS6250/3 Terminus, Fiber Optic, Expanded Beam, C-LENS, Removable, Rear Release Pin and Socket, Harsh Environment, For Use in MIL-DTL-38999 Series III Size 16 Cavities, General Specification
- AS5405 Splices, Fiber Optic, For Aerospace Inter-Connection Systems
- AS5405/1 SPLICE, FIBER OPTIC, AEROSPACE INTER-CONNECT, GRADED INDEX 100/140/172 FIBER, CABLE SIZE 2 MM
- AIR6318 Aerospace Photonics Technology Readiness Advancement and Insertion via Verification and Validation of Active Photonic Device Reliability and Packaging Durability
- AIR5601A A Guide for Application of Rf Photonics to Aerospace Platforms

### Recently published documents

- AS6479/1 Splicer, Fusion, Fiber Optic, Aerospace, Explosion-Proof (Type I)
- AS6479/2 Splicer, Fusion, Fiber Optic, Aerospace Non-Explosion-Proof (Type II)
- AIR6258 Fiber Optic Sensors for Aerospace Applications
- AIR6552/3 Network End-To-End Data link Evaluation System (NEEDLES)
- ARP6283/1 In-Service Fiber Optic Inspection, Evaluation and Cleaning, Best Practices, Expanded Beam Termini
- ARP6283/2 In-Service Fiber Optic Inspection, Evaluation and Cleaning, Best Practices, Multi-Fiber Termini
- ARP6366 Fiber Optic Sensor Specification Guidelines for Aerospace Applications
- AIR6162 Fusion Splicing for Optical Fibers

Join an SAE Aerospace Technical Standards committee.

For more information or to participate on an AS-3 Committee contact:

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