



Announcements

The next JSWAG/JFOWG Technical Interchange Meeting is scheduled for March 18-20, 2014 in Lexington Park, MD. Please contact a committee chair if interested in attending or send an email to jswag@navy.mil. DCO/VTC capability should be available for those who cannot travel.

Training Resources

- Aircraft Wiring Systems Awareness DVD- Defense Imagery PIN #806881.
- Fiber Optic Awareness DVD- Defense Imagery PIN #806707.
- Joint Services Wiring Manual Maintenance Techniques DVD- Defense Imagery PIN #806994.
- MIL-HDBK-522- Guidelines for Inspection of Aircraft Wiring Interconnect Systems- <https://assist.daps.dla.mil>.
- MIL-HDBK-525- Electrical Wiring Interconnect System (EWIS) Integrity- <https://assist.daps.dla.mil>.

Newsletter Contact

JSWAG Coordinator
jswag@navy.mil

Joint Fiber Optic Working Group

Now in its 14th year, the Joint Fiber Optic Working Group (JFOWG) continues as the premier forum for today's military fiber optic system maintainers. JFOWG aims to define and implement warfighter-centric common fiber optic maintenance procedures, support equipment, training, and fiber optic acquisition policies, standards and guidelines. JFOWG also serves as a joint service peer review enabler and continually manages and updates a warfighter-centric Science & Technology (S&T) portfolio. JFOWG is partly about giving an opportunity for the various branches of service and the prime, sub-tier and support contractors to feed upon each other's experiences and share solutions to common problems. As such, JFOWG provides the opportunity for the military users to get their message to fiber optic engineering designers, and vice versa.

The breadth and depth of military mobile platform fiber optic cable system coverage is considerably more mature than it was a decade ago. This level of maturity is primarily due to the efforts within the JFOWG community, as well as interactions within JSWAG and between external forums including IEEE and SAE. Over the years JFOWG lessons learned have continually been distributed to new platforms as a means to provide a field/fleet perspective to system designers. Sources of lessons learned have included the input from the field/fleet, programs, training sites, and S&T programs.

JFOWG supports the warfighter. JFOWG is committed to being proactive listening to and reacting to field and fleet maintainers and trainers to solve immediate problems and potential future situations. This is accomplished through a number of pathways including 1) documenting and completing JFOWG action chits, 2) reaction to and resolution of individual field/fleet requests, 3) reaction to and resolution of individual program requests, 4) support of training opportunities, 5) being proactive in the long term development of new technologies and in the short term modification and implementation of existing technologies used in other applications, and 6) updates to existing publications (guidelines, procedures and standards). These publications, available for use by field and fleet maintainers and trainers and by the acquisition community, help drive commonality and reduce total ownership cost across the services.

see JFOWG, page 2

JFOWG from page 1

JFOWG now has a documented history of accomplishments for the warfighter that includes: 1) Maintainer maintenance manual development and updates: NAVAIR 01-1A-505-4 T.O. 1-1A-14-4 TM 1-1500-323-24-4 AIRCRAFT FIBER OPTIC CABLING INSTALLATION AND TESTING PRACTICES TECHNICAL MANUAL, 2) training events, 3) definition of fiber optic labeling requirements, 4) fiber optic connector inspection criteria, 5) field/fleet fiber optic malfunction codes (instituted to track fleet fiber optic maintenance actions), and 6) common support equipment. JFOWG-defined common fiber optic inspection and test set support equipment is shown here.



Fiber Optic Inspection Set



Fiber Optic Test Set

JFOWG supports the acquisition and depot communities. Documented guidance is provided on the dos and don'ts of acquiring, installing, repairing and training military aviation fiber optics technology. JFOWG also supports the creation and update of military standards, the military fiber optic parts standardization and qualification process, the training communities, and the S&T communities.

JFOWG now has a documented history of accomplishments for the acquisition and depot communities to leverage on current and future programs. JFOWG has provided feedback to engineers involved in writing MIL-standards via direct engagement with Defense Logistics Agency civilian personnel. As a result several MIL documents including MIL-STD-1678, MIL-PRF-24623, MIL-PRF-64266, MIL-PRF-29504, MIL-PRF-85045, and MIL-PRF-49291, have been created or updated with JFOWG involvement. JFOWG has identified projects and provided feedback for development of next generation fiber optic cable repair and built-in test (for fault detection and isolation), and more user-friendly connector inspection, connector cleaning, and optical time domain reflectometer tools. JFOWG is in the process of creating a S&T roadmap to facilitate communication between JFOWG defined needs and other DoD S&T entities.

The JFOWG is in need of platform support to implement warfighter requirements. Acquisition documents need to include citing MIL-STD-1678 for systems with fiber optic sub-systems/components. Fiber optic technical and logistics points of contact within each Program office is needed (and encouraged to become part of the JFOWG membership and attend meetings). Identification of sites wanting to stand up fiber optic capabilities is requested. JFOWG is expanding to support ever increasing fiber optic requirements being placed on the warfighter. Your participation is requested! 