

# Fiber Optic Solutions for Military & Aerospace Systems

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Value-Added Products & Services







## Value-Added Services From Amphenol Fiber Systems International

Typically, military or industrial application-specific fiber optic systems are complex, conforming to stringent dimensional and optical standards. For new or existing projects, Amphenol Fiber Systems

International (AFSI) provides engineering assistance and value-added services for the most challenging fiber optic interconnect and system requirements.

Since 1993, AFSI has led the industry in providing harsh environment fiber optic interconnect solutions for military applications for C4I, shipboard and avionics. Our ability to solve customer problems is the reason for our success. Whether

the application calls for a high-precision fiber optic interconnect

or a junction box design, AFSI's engineers and technicians are capable of developing the fiber optic system solution to meet your particular needs.

We provide a full range of turnkey services to fit any fiber optic connectivity requirement. From optical splitter networks to custom fiber cable management and fiber interconnect cabinets, we can provide total system solutions for the most demanding environments. AFSI utilizes the latest computer aided design technology to develop our fiber optic products and services.

AFSI provides fiber optic engineering assistance including:

- Junction Box, Enclosure & Cabinet Design & Manufacture
- Panel Design & Manufacture
- Custom Connector Design
- Fiber Cable Application Support





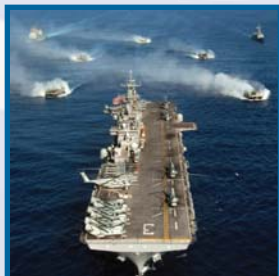


- Custom Fiber Optic Cable & Harness Assembly Specification & Design
- Fiber Optic Spooling
- Systems Development & Planning
- Design of Custom Precision Optical Interconnect Systems
- Integration Services

For application-specific cable assembly design, AFSI develops individual shop floor drawings and submits these to the project prime for approval. Key drawing parameters include nominal cable length, cable breakout areas, labeling and label placement, tolerances, pin assignment, channel orientation, color coding and bill of material. During the customer review process, the user may wish to alter system parameters prior to approval. Upon final release, AFSI fabricates cables to the approved drawings, maintains revisions and develops inspection and material records for each assembly.

When it comes to the manufacturing of the system, AFSI can build it to a customer print or design a system from a set of requirements. AFSI's team of trained fiber optic professionals is knowledgeable and adept at specifying, qualifying, testing and assembling a wide variety of components such as splitters, optical switches, transceivers and wavelength division multiplexers. Also, AFSI personnel are proficient at fusion splicing, stripping exotic jacket materials, precision tolerances and fiber winding.

All manufacturing is performed in our AS9100, ISO 9001:2000 and MIL-STD-790 certified facility, ensuring the highest levels of workmanship and performance available.





## About AFSI

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports rugged, reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, avionics, oil & gas, mining and broadcast applications. With more than a decade of experience, AFSI has emerged as a global leader in fiber optic interconnect components and systems, including termini, M28876, MIL-ST, TFOCA and the AFSI designed and patented TFOCA-II® connector. Today, millions of AFSI fiber optic connectors are in use in more than 22 countries. When there is a need for superior, cost-effective fiber optic systems and products capable of withstanding demanding operating environments, you can rely on AFSI for superior engineering, top-quality products and expert technical support. For more information about AFSI, visit [www.fibersystems.com](http://www.fibersystems.com).



## About Amphenol

Amphenol Corporation is one of the world's leading producers of electronic and fiber optic connectors, cable and interconnect systems. Amphenol products are engineered and manufactured in the Americas, Europe and Asia and sold by a worldwide sales and marketing organization. The primary end markets for the company's products are communication systems for the converging technologies of voice, video and data communications, industrial, automotive, military and aerospace applications. For more information about Amphenol, visit [www.amphenol.com](http://www.amphenol.com).



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