

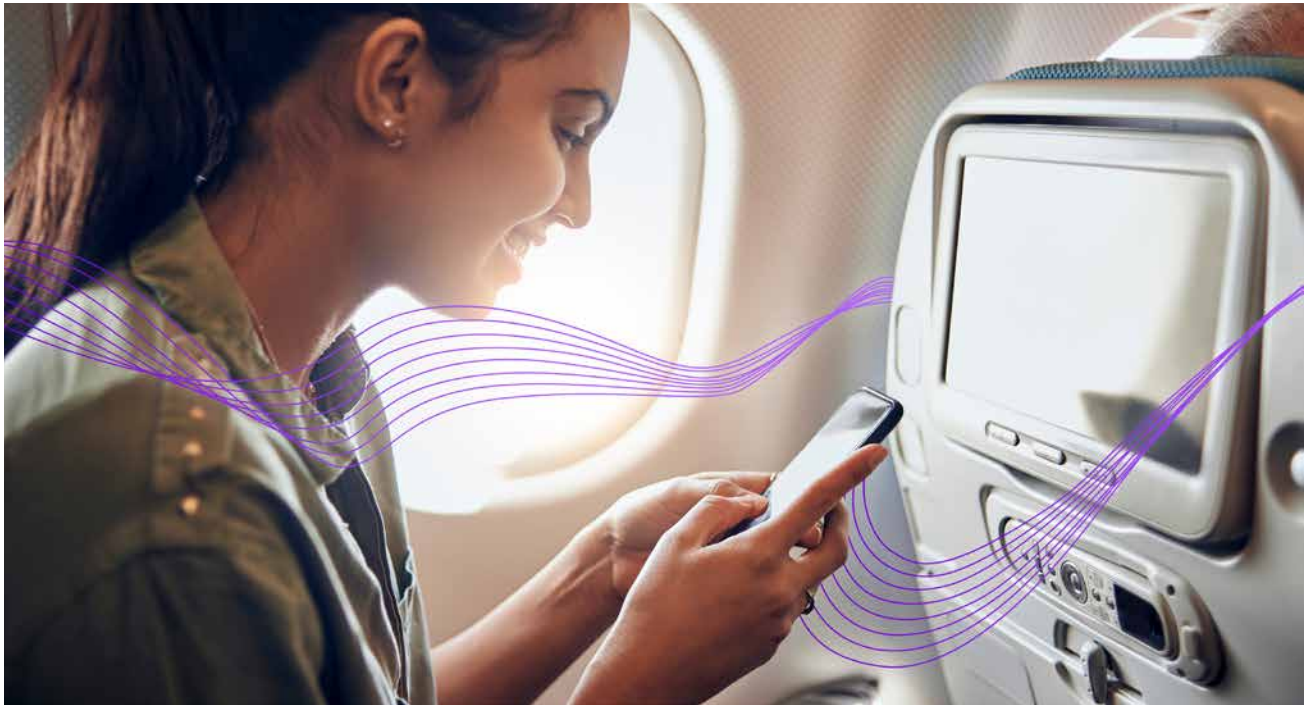


OPTICAL FIBER AND CABLE SOLUTIONS

FOR AEROSPACE & DEFENSE

Extensive coating, fiber and cable capabilities allowing for the creation of customized solutions for your application.

With more than 30 years of experience manufacturing fiber optic products for the aerospace and defense markets, Lightera is proud to offer a wide range of specialty solutions that meet stringent industry standards. We work to help ensure optimal quality, reliability, and safety to streamline and facilitate complex, sensitive operations.



Flight Communication for Commercial and Defense Aircraft

Lightera offers fiber optic cable solutions for optimal performance in challenging conditions. High reliability, long lifetime, high strength, light weight, and wide temperature ranges.

Cable Products:

- FlightLinx®
- FlightGuide®
- Avioptics®
- μ linx® Tether
- μ linx® Avionics

Applications:

- In-flight Entertainment Systems
- In-flight Networking Systems
- Display Systems
- Data Transmission
- Communication Systems
- High-temperature Environments
- Corrosive Chemical Environments
- Unmanned Vehicles
- Manned and Unmanned Avionics

Navigation

Fiber optic gyroscopes (FOGs) are critical tools in many different platforms; aircrafts, missiles, unmanned aerial vehicles (UAVs), and ground vehicles all require advanced optical fiber navigation technology to ensure reliability and safety. Lightera manufactures an array of products for such applications.

Fiber Products:

- GyroSil®
- GyroSil Rad-Hard PM
- Erbium-Doped

Applications:

- Fiber Optic Gyroscopes

Weapon Systems

Reliable optical fiber tethers — used in payout systems — are essential for safe, efficient missile firing from land-, sea-, or air-based platforms. In these systems, the fiber pays out from a coiled spool to create a data path. Lightera specialized design and coating processes help optical fibers survive the harshest of environments. Payout fiber can be customized to meet specific client needs.

Fiber Products:

- AccuTether® Bend-Insensitive Optical Fiber (80 and 125 μm)
- Custom Reduced Fiber Diameter Options

Applications:

- Torpedos
- Missiles

Sensing

for Structural Health Monitoring

OFS has capabilities to design and manufacture high-end solutions for challenging applications such as optical fiber sensors for harsh environments.

Products:

- Shape Sensor Modules
- Fiber Bragg Gratings

Applications:

- Composite Structures (Aircraft Wings)



Directed Energy & LIDAR

Light Detection and Ranging

OFS offers a broad line of high-performance fiber laser components such as all-fiber combiners, gain modules, and cavities for high-power lasers and amplifiers.

Products:

- CoolMode™ Pump Combiners
- CoolMode Pump Signal Combiners
- VLMA Er Amplifier
- Raman Fiber Laser Module
- DirectLase Optical Fiber
- DirectLase Premium Optical Fiber

Applications:

- Directed Energy
- Free Space Communications
- LIDAR

For additional information please contact your sales representative.

You can also visit our website at www.lightera.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



Copyright © 2025 Lightera, LLC.
All rights reserved, printed in USA.

Lightera Marketing Communications
Date: 05/25

For a full list of
our certifications,
visit our website.



Accutether, Avioptics, FlightGuide, FlightLinx, GyroSil and μ linx are registered trademarks of Lightera, LLC. CoolMode is a trademark of Lightera, LLC. Lightera reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any Lightera warranties or specifications relating to any of its products or services.