



OPTICAL FIBER, CABLE, MODULES



Optical Fiber and Cable Solutions for  
**AEROSPACE & DEFENSE  
APPLICATIONS**

With more than 30 years of experience manufacturing fiber optic products for the aerospace and defense markets, OFS 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.

# Optical Fiber and Cable Solutions

for Aerospace & Defense



## Flight Communication for Commercial and Defense Aircraft

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

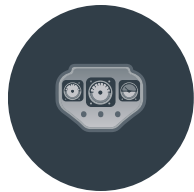
### CABLE PRODUCTS:

FlightLinx®	Avioptics®
FlightLinx® PLUS	µlinx® Tether
FlightGuide®	µlinx® Avionics

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### 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

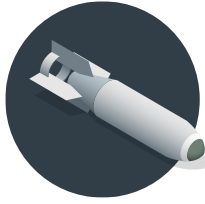
Fiber optic gyroscopes (FOGs) are critical tools in many different platforms; aircrafts, missiles, unmanned aerial vehicles (UAVs), and ground vehicles all require advanced optical fiber navigation technology to ensure reliability and safety. OFS manufactures an array of products for such applications.

### FIBER PRODUCTS:

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

### APPLICATIONS:

- Fiber Optic Gyroscopes



## Weapon Systems

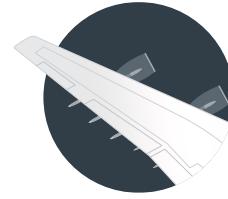
Reliable optical fiber tethers – used in payout systems – are essential for safe, efficient missile firing from land-, sea-, or air-based platforms. In these systems, the fiber pays out from a coiled spool to create a data path. OFS specialized design and coating processes help optical fibers survive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

### APPLICATIONS:

Torpedos  
Missiles

### PRODUCTS:

AccuTether® Bend-Insensitive  
Optical Fiber (80 and 125  $\mu\text{m}$ )  
Custom Reduced Diameter  
Fiber Offerings



## 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.



### APPLICATIONS:

Composite Structures  
(Aircraft Wings)

### PRODUCTS:

Shape Sensor Modules  
Fiber Bragg Gratings

### PRODUCTS:

CoolMode™ Pump Combiners  
CoolMode Pump Signal Combiners  
DirectAMP™ Fiber Amplifiers  
VLMA Er Amplifier  
Raman Fiber Laser Module

### APPLICATIONS:

Directed Energy  
Free space communications  
LIDAR

## Directed Energy and 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.



For additional information please contact your sales representative.

You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com)  
or call 1-888-FIBER-HELP (1-888-342-3743) from inside the USA  
or +1-770-798-5555 from outside the USA.  
EMEA Specific: +49 (0) 228 7489 201

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