

Airborne Optical Cable Applications



Overview

Aerospace applications range from field communication equipment and surveillance drones to satellites and aircraft. Manufacturing the custom cables needed to fit these applications and meet their rigorous quality specifications requires a great deal. Optimized for mission-critical reliability and flexibility, AirBorn Fiber Optic Copper Solution (FOCuS) Active Optical Cables are expertly engineered for aerospace, defense and space environments, supporting both copper and fiber solutions. Hybrid Fiber Power Cables In naval or airborne environments. Fiber optic aerospace cables are used in everything from cockpit systems to imaging systems, including LIDAR (light detection and ranging) systems to measure distance, speed, and more. Unmanned Aerial Vehicles (UAVs). In the demanding world of aviation and space travel, high-speed, reliable data transmission is. pplications. Our fiber optic interconnect solutions are based on high-performance optical. Prysmian Group is the world leader in the industry of high technology cables and systems for energy and telecommunications with sales of some € 8 billions in 2011, the Prysmian Group is a truly global company with subsidiaries in 50 countries, 97 plants, 17 research and development centres and.



Article Content

Feb 06, 2026

AirBorn FOCuS Rugged Active Optical Cables | Molex

AirBorn FOCuS Rugged Active Optical Cables deliver a robust solution and are available in space-rated or ruggedized cable options.

Oct 30, 2025

Fiber Optics for Defence

The fibres in a modern fibre optic cable have a bend radius of 7 mm, which means they can be looped and curved for easy installation in cramped aircraft environments, with no worries about breakage.

May 18, 2026

The FIRST Active Space-Rated Optical Cable

Revolutionary Data Communications for Space Applications AirBorn is excited to introduce the latest disruptive technology to hit the space market in a generation. Our FOCuS® active optical cable

Mar 17, 2026

Airborne optical imaging technology: a road map in CIOMP

This article reviews the development trajectory of CIOMP research on airborne optical imaging issues from the dimensions of historical and

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Active Optical Connectors & Cables

We engineered these fiber cable assemblies with Space, Military, Industrial, and Commercial Aviation applications in mind — but their practical uses extend into many industries. When you need

Jun 18, 2026

The Use of Fibre Optic Technology in Aerospace

Early Commercial Applications of Fibre Optic Technology in Aerospace 1993 - G-ASYD BAC 1-11 Control Technology Project (CTP) Development of Smart Actuation Systems "Fly-by-Light" Lucas Fly

Apr 01, 2026

Wires & Cables for Aerospace Applications

As a leader in the aerospace market, the organization under the Prysmian Group offers a wide range of wire and cable solutions for energy including ultra light weight conductors, signal and data

Jan 07, 2026

Exploring Aerospace Fiber Cables and Their Applications

What Is An Aerospace Fiber Cable? Benefits of Fiber Optic Cables For Aerospace Applications Aerospace Fiber Optic Cable Applications Fiber Optic Cable Aerospace Manufacturing Requirements We Can Help with Your Aerospace Fiber Cable Selection Aerospace fiber optic cables are used throughout aviation applications, but they can also be specified for a much wider range of applications: anywhere their rigorous standards are required. Here's a starting list. 1. Aviation Applications. Fiber optic aerospace cables are used in everything from cockpit systems to imaging systems, including LIDAR ... See more on cables-unlimited fiber optics systems

Fiber Optic Systems in Aerospace Applications - FSI

Discover how FSI's fiber optic systems enhance high-speed data transmission in the aerospace industry, ensuring reliable and efficient communication across

May 06, 2026

Space-rated Active Optical Cable

Our solutions engineers will review your application and recommend how you can best implement AirBorn's AOC technology in your program. Learn more about our

Aug 19, 2025

Optically Powered and Controlled Drones Using Optical

Thus far, we have simultaneously transmitted RF data signals for airborne base stations in mobile communications and control signals for

Jul 20, 2025

Choosing the Right Optical Cable for Military and Marine

Military and marine applications present unique demands of extreme temperatures, moisture, pressure, vibrations, salt corrosion, and mechanical

Mar 06, 2026

Airborne Internet Access Through Submarine Optical

Dedicated ships stationed along these submarine optical fiber cables can be exploited to provide internet, security, and navigation services to aircrafts and

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FIBER OPTICS

Fiber optic interconnect solutions are ideally suited for high speed, high reliability, EMI/RFI immune, digital data transmission in harsh environment applications such as airborne avionics and computers,

Dec 24, 2025

Space Connectors | Molex

See how Molex and AirBorn are working together to deliver smarter, faster space connectivity solutions that are ready for the exploration missions of tomorrow.

Mar 09, 2026

Alternative to Aviation Cables: The Promising Future of Fiber Optics in ...

As the aviation industry strives to reduce weight, enhance data transmission speeds, and improve electromagnetic resilience, fiber optics is emerging as a groundbreaking alternative to traditional

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Advancing Aviation with Fiber Optic Systems: FSI's Role

Discover how custom fiber optics from FSI enable advanced, EMI-resistant data in aviation—optimizing aircraft performance, safety, and real-time communications.

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AirBorn's Space-rated Active Optical Cable Wins Coveted Innovators Award

AirBorn's Space-rated Active Optical Cable gives engineers and space application designers all the benefits of fiber optic cabling with the ease of use of a traditional copper cable

Jan 04, 2026

Airborne optical imaging technology: a road map in CIOMP

As application requirements evolve toward long-distance, high-resolution, wide field-of-view, and large data volumes, dynamic optical imaging

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Exploring Aerospace Fiber Cables and Their Applications

Critical Aspects of Radiation-Hardened Fiber for Military and Aerospace Applications
We Can Help with Your Aerospace Fiber Cables Selection We've got you

Mar 05, 2026

Airborne Internet Access Through Submarine Optical Fiber Cables

Request PDF | Airborne Internet Access Through Submarine Optical Fiber Cables | The internet access for the passengers travelling in the aircrafts is thought to be one of the unresolved

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AirBorn FOCuS Rugged Active Optical Cables | Molex

Launch-ready and vibration-resistant, these cables are ideal for space and defense applications. Cable data rates enable up to 14Gbps per lane to meet high-speed

Mar 31, 2026

The Ultimate Guide to Air Blown Fiber Cable:

Air-blown fiber cable, also known as blown fiber or air-spliced fiber, is a unique type of optical fiber cable that is installed using compressed air. This process involves

Nov 20, 2025

Airborne Internet Access Through Submarine Optical

Airborne Internet access through stationary ships stationed along submarine optical fiber cables. LoS range of A2G and G2A communication link.

Sep 02, 2025

Molex Completes AirBorn Acquisition to Expand Offering of Industry ...

Molex, a global electronics leader and connectivity innovator, has completed its acquisition of AirBorn, a global

Apr 27, 2026

OPTICAL FIBRE CABLE APPLICATIONS GUIDELINES

However, no single optical cable design is universally superior in all applications. In general, optical fibre cables installed in an outdoor environment are exposed to more severe mechanical and

Contact Us

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