

Complete List of Aviation Optical Cable Connector Models

Article Overview

Aviation optical cable connectors include ARINC 801, MIL-DTL-38999, LuxCis(R), MT ferrule, and high-speed circular connectors for single-mode and multi-mode fiber applications.

Key Aviation Optical Connector Models and Standards

1. ARINC 801 / LuxCis(R) Connectors

- o Standardized for commercial and military aircraft fiber optics.
- o Includes single-channel (FO1) and multi-channel (FO4) variants.
- o Ruggedized for high vibration, shock, and temperature extremes.
- o Used in circular and rectangular shells, often compliant with MIL-DTL-38999 Series III for shell durability (Radiall, Amphenol).

2. MIL-DTL-38999 Fiber Optic Connectors

- o Multi-channel circular connectors for harsh environments.
- o Supports single-mode and multi-mode fibers.
- o High-density MT ferrule options for next-generation data transmission.
- o Often integrated with hybrid designs combining optical and electrical contacts.

3. High-Speed / Multi-Mode Connectors

- o MT ferrule circular connectors for high-density fiber assemblies.
- o Supports Gigabit Ethernet, USB 3.0, HDMI, and Fibre Channel protocols.
- o Designed for high-speed data transfer up to 10 Gbps per pair.
- o Includes Quadrax, Differential Twinax, Coax, and Triax contacts for hybrid applications.

4. Specialized Avionics Fiber Optic Cables and Connectors

- o FlightLinx(R): Commercial aircraft, ARINC 802 compliant.
- o FlightGuide(R): Military aircraft with carbon/silicone coating.
- o Avioptics(R): HCS(R) fiber allowing crimp and cleave termination.
- o FlightLinx(R) PLUS: In-flight entertainment networking.

5. Hybrid and Custom Connectors

- o Combines optical channels with electrical contacts for space-saving applications.
- o Pre-cabled assemblies for rapid integration.

6. Other Notable Models

- o JSFC and MIL-PRF-29504 ferrules for military-grade fiber optic termini.
- o Single-mode and multi-mode options for high-reliability aerospace applications.
- o Push-pull connectors for in-flight entertainment and cabin systems (e.g., 1720 series).

Summary

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Aviation optical connectors are designed for rugged, high-performance environments, supporting both single-mode and multi-mode fibers, and are compliant with ARINC 801, MIL-DTL-38999, and other aerospace standards. Leading manufacturers include Amphenol Aerospace, Radiall, and Acal BFi, offering a wide range of circular, rectangular, hybrid, and high-speed connectors suitable for commercial, military, and unmanned aircraft systems. These connectors are optimized for high vibration, shock, temperature extremes, and high-speed data transmission.

RF Connectors for Military, Commercial and Civil Aviation In aerospace and defense, there are different types of connections that are

Draka Fileca offers a wide portfolio of products and the core competencies of its highly skilled and experienced specialists focus on

GIGAFLIGHT offers a variety of RF coaxial connectors designed to be paired with our aircraft coaxial cables. We also offer triaxial

Amphenol Military High Speed is an industry leader in fiber optic cable and connector

The fiber connector types, sometimes referred to as terminations, link fiber optic cables

OFS Avionics cables for commercial and military aircraft ruggedised for abrasion, shock, chemicals, and temperature.

Complete design and manufacturing capability for rugged metal and lightweight composite solutions

China Aviation Optical-Electrical Tech (Jonhon) held by Aviation Industry Corporation of China (AVIC), headquarter is located in

Fiber optic cable connectors come in many configurations and usages, and simplify fiber optic cable installation and maintenance

Amphenol offers industry-standard fiber optic connectors, cable assemblies, and termini to enable high

Find your aircraft connector easily amongst the 191 products from the leading brands (KENNAMETAL, Amphenol, Inbertec, ...) on

What is a Fiber Connector? The fiber connector is called a fiber optic or optical fiber connector. It is a precise coupling

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We provide an unparalleled product breadth, from military/aerospace specification connectors to customized high-speed board level

Amphenol Aerospace designs and manufactures QPL Mil-spec and custom circular and rectangular electrical and electronic

Find your airplane cable easily amongst the 144 products from the leading brands (Collins Aerospace,

Aircraft cables, also known as aviation cables or wire ropes, are integral components across various industries

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