Complete List of Aviation Connector Fiber Optic Cable Models



Overview

Fiber optics connector Find your fiber optics connector easily amongst the 17 products from the leading brands (TE CONNECTIVITY, Radiall, Fischer Connector.

Key Takeaways

Aviation fiber optic connectors include ARINC 801, MIL-DTL-38999, MT38999, M29504, CF-series, FTTA, and high-density modular solutions from leading aerospace manufacturers.

Circular and Multi-

Channel ConnectorsARINC 801 Connectors: Standardized ceramic termini connectors used in multi-channel circular configurations, available in straight plug and wall-mount receptacles, supporting both single-mode and multi-mode fibers (Amphenol, Radiall, Glenair). MIL-DTL-38999 Series III Fiber Optic Connectors: Ruggedized circular connectors for harsh environments, supporting LuxCis® ARINC 801 contacts, MT ferrules, and multi-channel configurations (Radiall, Amphenol, ITT Cannon). MT38999 Multi-Channel Connectors: High-density connectors using MT ferrules for multi-fiber transmission, suitable for military and aerospace applications (Amphenol).

CF38999 Multi-Channel Fiber Optic Connectors: Circular connectors with multiple fiber channels, compatible with D38999 Series III shells (Amphenol). Rectangular and Hybrid ConnectorsFTTA (Fiber to Antenna) Connectors: Hybrid connectors combining standard LC fiber optic components with copper contacts for space-saving, ruggedized applications (Radiall, Amphenol).

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Rectangular High-

Speed Fiber Optic Connectors: Embedded in VME64x or other backplane systems, supporting high-speed data transmission in avionics (Amphenol).

C9394 Series LR

M Connectors: Line removable module connectors configurable with fiber optic, power, signal, and coaxial contacts, available in 132–594 positions (Radiall). Termini and Specialized ConnectorsM29504 Series Termini: Precision-engineered fiber optic contacts (M29504/04, /05, /14, /15, /16, /18) for low-loss, high-reliability applications (Glenair).

Super Tough Uni-

Boot Duplex L

C: Industry-standard LC connectors for high-density, low-loss fiber optic connections, approved for JSF/F35 applications (Amphenol).

Hermaphroditic FOM

C Connectors: Allow mating with identical plugs, suitable for modular and high-bandwidth aerospace systems (ITT Cannon).

High-

Density M

T Fiber Optic Connectors: Multi-channel circular connectors using MT ferrules for compact, high-bandwidth applications (Amphenol).

Commercial and Ruggedized Options

Expanded Beam Fiber Housings: Ruggedized connectors for harsh environments, providing alignment tolerance and low insertion loss (TE Connectivity). Backplane Fiber Optics and Cable Mount Connectors: Standard and custom designs for panel or free-hanging cable applications, supporting operating temperatures from -40°C to 85°C (TE Connectivity).

Summary

Aviation fiber optic connectors cover a wide range of circular, rectangular, hybrid, and high-density modular designs, compliant with ARINC 801, MIL-DTL-38999, MT38999, M29504, and other military/aerospace standards. Leading manufacturers such as Radiall, Amphenol Aerospace, ITT Cannon, Glenair, and TE Connectivity provide solutions for multi-channel, high-speed, and ruggedized applications, including hybrid fiber-to-copper designs, hermaphroditic connectors, and line-removable modules suitable for mission-critical avionics systems.

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Article Content

Fiber optics connector

Find your fiber optics connector easily amongst the 17 products from the leading brands (TE CONNECTIVITY, Radiall, Fischer Connectors, ...) on AeroExpo, the aeronautic equipment specialist

Avionics Optical Fibres and Cables

Lightera (formerly OFS) fibre optic cabling solutions for avionics are designed for high reliability in challenging conditions, with long lifetime performance, high

Fiberking Fiber Optic Cables

ptic cable for 10Gb+ avionic element in-house, from low-loss simplex, duplex, and multi-line fiber optic cables, to precision termini, military and aerospace-grade conne.

Fiber Optic Connectors, Termini, Cable Assemblies,

Precision-engineered QPL and commercial fiber optic contacts, or termini (M29504/04, M29504/05, M29504/14, M29504/15, M29504/16, M29504/18, and

Fiber Optic Connectors

We have extensive experience producing fiber optic cable assemblies for harsh environment applications with complete control over connector

High Speed/Fiber Optics Connectors & Cables | Amphenol Aerospace

We design and manufacture a broad range of High Speed and Fiber Optic Connectors, Cable Assemblies, and Integrated Solutions

Fiber Optic Connectors | ITT Cannon

From aircraft cockpits to pylons on military helicopters and transported applications, our in-house capabilities allow us to design and manufacture complex fiber optic connector systems including

Fiber Optic Products

Radiall designs, manufactures and markets high performance fiber optic components and end-to-end optical systems for the most demanding applications for the industrial, defense, and aerospace

Fiber Optic Cables for Aerospace, Defense Air & Land Applications

Watch the video to see how our Simplex optical fibers meet current and future high data rate requirements for military aircraft and combat vehicles, as well as civilian aircraft.

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FIBER OPTICS

Why Choose 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

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FIBER OPTICS

AMAO FIBER OPTIC PRODUCTS OVERVIEW Amphenol Military and Aerospace Operations (AMAO) designs and manufactures reliable and innovative harsh environment fiber optic interconnect

Fibre Optic Cable & Connector Guide

Choices must be made in selecting fibre optic cables and connectors for high-reliability applications. This white paper provides the knowledge for how to make appropriate selections of fibre optic cable and

Avionics Optical Fibres and Cables

Range features A high level overview of what this range offers In addition to the Avioptics range of fibres for sensing applications in avionics, the LineaSens® products deliver excellent optical performance

How Fiber Optics Will Propel Future Avionics

Fiber optic connectors and components manufacturers are innovating to enhance cockpit management and revolutionize aircraft cabin design. Fiber

Aerospace Fiber Optic Cable Assemblies & Harnesses

CUSTOM AEROSPACE FIBER OPTIC CABLE CONFIGURATIONS kSARIA is a leading manufacturer & installation services provider of Mission Critical Fiber

Fiber Optic Connectors Information

The ferrule end is polished after insertion of the embedded fiber to provide the smooth interface required for coupling. Parts of the fiber optic connectors include the connector body, the cable, and the

Fiber Optic Connectors, Termini, Cable Assemblies,

Military Fiber Optics: Rugged, High-Bandwidth Military Defense and Aerospace-Grade Fiber Optic Connectors, Termini, Toolkits, Cable Assemblies, and

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