

Specifications of Aviation-Specific Optical Cable Connectors



Overview

These connectors include CF38999 Multi-Channel Fiber Optic Connectors, ARINC 801 Connectors, MT38999 Multi-Channel Connectors with MT Ferrules, Fiber Optic Feedthrough Connectors, and Fiber to Antenna (FTTA) Connectors which combines standard fiber optic LC. These connectors include CF38999 Multi-Channel Fiber Optic Connectors, ARINC 801 Connectors, MT38999 Multi-Channel Connectors with MT Ferrules, Fiber Optic Feedthrough Connectors, and Fiber to Antenna (FTTA) Connectors which combines standard fiber optic LC. High-performance MS type electrical connectors have been around since the late '30s. As military and aerospace electronics became more prevalent and sophisticated, so did the requirements for interconnection devices. Today, a broad range of circular and rectangular connector types—many specialized. Amphenol Military High Speed is your essential source for fiber optic connectors, cables, and termini to deliver ultra-high-speed data transmission in harsh environments. Our fiber optic solutions provide fast data rate speeds combined with low-loss signal integrity, high-density configurations. Lightera (formerly OFS) fibre optic cabling solutions for avionics are designed for high reliability in challenging conditions, with long lifetime performance, high strength, light weight, and for wide operating temperature ranges. The range includes FlightLinx® for use in commercial aircraft. HUBER+SUHNER is a leading international manufacturer and supplier of components and systems for electrical and optical connectivity. Radiall MIL-DTL-38999 for LuxCis® ARINC 801 fiber optic contact is a multi-channel.

Article Content

Hot

Fiber Optic Cable Assembly Guide | LC, SC & ST

Learn how to select and test LC, SC, and ST connectors for reliable fiber optic cable assemblies. Includes polish types, OFC specs, and transceiver

Nov 06, 2025 Hot

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

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WORKMANSHIP STANDARD FOR FIBER OPTIC TERMINATIONS,

Cable stress relief and environmental sealing between the cables and splice, or the cables and the connectors, to prevent the entry of external contaminants and to provide protection from both cable

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Fiber optics connector

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

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Technology validation of optical fiber cables for space flight ...

Several optical fiber cables were characterized for their thermal stability both during and after thermal cycling. The results show how much preconditioning is necessary for a variety of available cables to

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Fiber Optic Systems in Aerospace Applications

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

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Avionics fiber-optic cable design, special cables

And we have selected special cable materials that increase the fiber movement under compression. Therefore, our fiber optic cables can endure high-intensity

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Exploring Aerospace Fiber Cables and Their Applications

We Can Help with Your Aerospace Fiber Cables Selection We've got you covered for aerospace applications, including fiber optic cable assemblies. If your

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RF and Microwave Cables and Connectors for Aviation

EN4652 connectors are suitable for use at up to 6 GHz and, in combination with KX cables, create the optimal, field-configurable assembly. Thanks to clamping technology, this latest generation of

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Critical Electrical Connectors in Modern Aerospace

Conclusion In aerospace applications, the selection of electrical connectors is dictated by rigorous performance standards and operational

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AVIATION WIRING, CONNECTORS AND INTERCONNECTS

HEICO designs, manufactures, and distributes wiring harnesses, connectors, cables, and other interconnect-related components for niche uses, such as high-voltage, high-current, mil-spec and

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Datasheet

Constructed from rugged Zirconia, the ferrule eliminates the need for conventional metal covers in active alignments, enhancing repeatability and durability. Moreover, our connectors are fully compatible

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Fiber Optic Connectors

Many of our optical fiber connector systems operate within our proven MIL-DTL-38999 Series III connectors, providing the rugged performance you've come to expect from the D38999 MIL-SPEC.

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Aviation Cable Connectors: Types and Uses – Powering the Skies

Aviation cable connectors are the unsung heroes of the aerospace world. These critical components provide the essential electrical pathways that power, control, and communicate within every aircraft

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Military Specifications for Fiber Optic Connectors

Military specification describing the characteristics, performance and testing criteria for single terminus fiber-optic connectors. The specification covers families of both bulkhead and cable termination

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Fiber Optic Connector Types

Fiber Optic Connector Types Fiber connectors, also called fiber optic cable connectors, are often used to link optical fibers where a connect or disconnect capability is needed. Fiber optic cable connectors

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High Speed/Fiber Optics Connectors & Cables

Products High Speed & Fiber Optics High Speed & Fiber Optics Connectors, Cables, Contacts, and Termini Amphenol Military High Speed is your solutions partner for

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Single Terminus (ST) Connectors

Available to support single-mode and multimode fibers Accommodate fiber cables with outer jackets from 2.0mm to 3.0mm outer diameters The locking version

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Fiber optic connectors for harsh environment of aviation and

Fiber optic connector technology is making significant advances for use in aviation and aerospace applications. This increasingly user friendly system has contributed to more novel

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Fiber Optic Connectors

Products Fiber Optic Connectors Fiber Optic Connectors Amphenol Military High Speed is your essential source for fiber optic connectors, cables, and termini to

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Connectors for Aerospace – It's All About Standards and

Potential contacts that we supply include signal, power, high power, coax, triax, quadrax and Elio fibre optic. This means our customers can “build” connectors to

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Aircraft Fiber Optic Cable

This specification covers the performance requirements, dimensions, quality assurance criteria, test procedures, and cable codification for fiber optic cables suitable for use on commercial

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Aerospace Optical Cables: Key Standards for

The three standards detailed in this guide—addressing temperature cycling, mechanical bending, and product-specific construction for optical

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Aerospace Connectors for Electrical & Optical Systems

Home > Aerospace Connector And Cable Solutions Aerospace Connector And Cable Solutions Aerospace technology is constantly evolving to deliver more

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MIL Aero Connector Reference Guide

The largest rectangular connector family, the ARINC 404 and 600, takes its name from Aeronautical Radio, Inc., an airline industry association active in specifying connectors for use in commercial aircraft.

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MIL-SPEC Connectors for Aerospace | Molex

The Defining and Advancing Rugged, Reliable Connectivity in Aerospace and Defense report from Molex outlines the characteristics of MIL-SPEC connectors

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