

Circular connector for fiber optic cable



AI Overview

Fiber optic circular connectors are rugged, multi-channel interconnect solutions designed for harsh environments, available in various configurations, standards, and fiber types.

Overview Fiber optic circular connectors are designed to provide reliable, high-density fiber connectivity in industrial, military, aerospace, marine, and broadcast applications. They are typically round in shape, allowing for secure mating, environmental sealing, and resistance to vibration and shock. These connectors can accommodate single-mode or multi-mode fibers, and many support expanded beam or MT ferrule technologies for high-density applications.

Key Types and Features

- MIL-DTL-38999 Derived Connectors:** Common in military and aerospace applications, these connectors support multi-channel MT fiber optics, with 12- or 24-fiber ferrules in single-mode PC, single-mode APC, or multi-mode PC configurations.
- Expanded Beam Connectors:** Designed for harsh environments, these connectors use optical lenses to expand and focus the light, offering 1 to 16 fiber contacts and are field-terminable and repairable.
- M28876 and THD Connectors:** Ruggedized connectors compliant with MIL-PRF-28876, suitable for aerospace and military applications, often featuring anti-vibration coupling and ceramic ferrules.
- Commercial and Industrial Circular Connectors:** Bulgin 4000–6000 series and similar products provide IP66–IP69K ratings, secure locking mechanisms, and are suitable for FTTX, broadcast, marine, and civil engineering applications.

Applications

- Military and Aerospace:** High-density MT ferrule connectors for radar, tactical communications, and avionics.
- Industrial and Marine:** Expanded beam and ruggedized connectors for harsh environmental conditions.
- Broadcast and Telecommunications:** Compact, field-terminable connectors for outdoor broadcast and FTTX networks.
- Medical and Defense:** Specialized circular connectors for precision and reliability in critical systems.

Accessories and Support Many suppliers provide strain relief backshells, du...

Article Content

MT 38999 Fiber Optic Conn

Amphenol Aerospace offers multi-channel circular connectors with high-density MT fiber optics for use in the harsh environments found in military

DLA CATS-2006

This standard establishes general specifications for environmental resistant, gendered, circular fiber optic connectors. It outlines the requirements for design, materials, performance, and testing to

Amphenol Socapex

Our reliable, tested, and robust connectors are engineered to meet the rigorous demands of the aerospace industry. Explore a range of space-ready connectors

MT38999 Multi-Channel Connectors with MT Ferrules

Amphenol offers a multi-channel circular connector with high density MT fiber optics. This connector uses MT ferrules.

HARTING Americas | Industrial Connectivity | HARTING Technology

Circular Connectors As one of the largest manufacturers of industrial connection technology, HARTING has a comprehensive portfolio of circular connectors in all common sizes and codings, including

Circular Fiber Connector 4000 & 6000 Series

The Bulgin Circular Fiber Connector range offer high quality and reliable fiber connectivity solutions. Suitable for use in industries such as outdoor broadcast, FTTX (fiber to the x), server room

Fischer FiberOptic Series | High-performance Optical

The single fiber optic connector (FO1) is a miniature, rugged connectivity solution especially designed to meet the growing market need for higher data

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Series 806 Mil-Aero Micro Miniature D38999 Connectors and Cable ...

Glass hermetic, lightweight aluminum hermetic, high-temperature, fiber optic, and filtered versions High-Speed configurations with El Ochito octaxial contacts. Available turnkey factory terminated pigtail and

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CNLINKO provides one-stop electrical waterproof industrial connection solutions for signal, power and data devices, cable assembly manufacturer for RJ45, USB,

MPO Fiber Optic Cables

L-com offers MPO (Multi-Fiber Push On) fiber optic cables including 6, 8, 12 and 24 fibers with OM1, OM2, OM3, OM4 or OM5 Connectors. Get same-day shipping!

Fiber Optic Connectors | Circular Connectors

Amphenol Fiber Systems International manufactures a complete line of circular fiber optic connectors including M28876 connector. The MFM Fiber Optic Connector

Circular Fiber Optic Connectors - Mouser

Mouser offers inventory, pricing, & datasheets for Circular Fiber Optic Connectors.

Fiber Optic Connectors and Adapters

Providing high-performance mixed optical and electrical signaling to reduce the number of connectors needed in medical systems, MediSpec Hybrid Circular MT

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Circular Fibre Connectors

Lane Electronics brings together a range of high-performance fibre optic connectors from leading manufacturers EATON Souriau, Cinch Fibreco® and Neutrik.

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Connectors - Mouser

Types: The most common connector types include board-to-board, wire-to-board, and wire-to-wire connectors, as well as RF connectors, circular connectors, rectangular connectors, USB connectors,

Rugged Circular Connectors | Fischer Connectors

Low/high voltage, coax/triax & hybrid rugged circular connectors. Wide range of shell sizes, keying options and pin configurations.

Micro-Precision 3D Printers

Fiber optics sit at the core of modern photonics, enabling high-speed communications, data centers, and advanced sensing systems. As fiber optic components become smaller and more complex,

PAVE Technology Hermetic Feedthrough Solutions

Fiber Optic Cable Seal PAVE-Optic® feedthrough hermetic seals can be single and/or multi-mode optical fibers of any length or combination. Hermetic

Fiber Optic Standard Circular Connector – Mouser

Fiber Optic Standard Circular Connector are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Fiber Optic Standard Circular Connector.

CONEC connectors by CONEC

CONEC offers circular connectors in the in the sizes M8, M12, 7/8" and Round24. Available are connectors with mould-on cable or tailored

400G Duplex OM4 CS Fiber Connector Optic Cable (CS-UPC/CS

The smaller connector footprint of CS™ connectors enables two duplexes in a single QSFP-DD/OSFP transceiver, addressing a critical industry challenge of increasing port density for 400GbE optics.

Connectors, Interconnects | Electronic Components Distributor

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Circular Connectors

Combining optical and electrical signaling into a compact, hybrid connector, the
MediSpec Hybrid Circular MT system utilizes the proven circular MT optical

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