

MMC optical cable



AI Overview

MMC optical cable uses a very small form factor (VSFF) multi-fiber connector to provide high-density, low-loss fiber optic connectivity for modern data centers. Overview MMC (Miniature Multi-fiber Connector) optical cables are designed to support high-density fiber optic networks in space-constrained environments such as data centers, AI GPU clusters, and high-speed networking applications. The MMC system leverages a very small form factor (VSFF) design, allowing up to three times the fiber density per rack unit compared to traditional MPO/MTP connectors. MMC connectors are available with 16 or 24 fibers, enabling compact, high-bandwidth cabling solutions. Key Features TMT Ferrule Design: MMC connectors use a TMT ferrule, which is smaller than traditional MT ferrules (approximately two-thirds the height and half the length), while maintaining compatibility with MT or MT-16 alignment structures. This allows seamless integration with existing infrastructure. High Fiber Density: The compact design supports aggregation of multiple 8- or 12-fiber transceivers into a single connector, optimizing rack space and simplifying network upgrades. Low-Loss Performance: MMC connectors provide insertion loss typically below 0.21 dB and maximum insertion loss under 0.35 dB, with excellent return-loss performance, ensuring reliable high-speed data transmission. EMI Shielding: Some MMC assemblies include electromagnetic interference (EMI) shielding, improving signal integrity in electronically noisy environments. Installation Features: Push-pull boots, polarized guiderails, and asymmetrical ferrule keying reduce installation errors and maintain proper polarity throughout the network. Applications MMC optical cables are particularly suited for: Hyperscale data centers requiring high fiber counts in limited space. AI and machine learning clusters where high-bandwidth, low-latency connections are critical. Next-generation networking supporting 800G, 1.6T, and beyond. Hybrid cabl...

Article Content

MMC Cable Assemblies and Adapters

MMC Cable Assemblies and Adapters are available with 16 or 24 fibers, providing higher cabling port density and low-loss performance in a compact design to support high-bandwidth applications.

Fluke MMC-50-SCLC-M InfiniBand Fiber Optic Cable 100m

Fluke MMC-50-SCLC-M InfiniBand fiber optic cable, 100 meters, SC and LC connectors. Perfect for data centers needing fast connections. Order today.

Very Small Form Factor, MMC | Sumitomo Electric

OVERVIEW Innovative Connector that Succeeds MPO and Extremely Reduces Foot Print MMC connector enables deployment of next-generation, high-density,

MMC Cable Assemblies

Molex MMC Cable Assemblies help data centers optimize space and density to meet AI-driven requirements and use a very small form factor (VSFF) design to achieve higher density within

MMC Fiber Cables

Harnesses are available in both single-mode and multimode applications, along with both MMC-16 and MMC-24 connectors. Cable jackets are available in any color

Corning Incorporated

End-to-end solutions accelerate dense, scalable network growth Corning Incorporated (NYSE: GLW) will showcase new innovations to optimize AI data center networks at the 2026 Optical

MMC: High Density Fiber Connectivity

Panduit now offers MMC—the next generation of VSFF (Very Small Form Factor) fiber connectivity. Purpose-built for AI, cloud, and large data centers, MMC solutions offer the highest functional fiber

MMC CABLE ASSEMBLIES AND ADAPTERS

MMC CABLE ASSEMBLIES AND ADAPTERS MMC Cable Assemblies and Adapters support higher-density, low-loss optical connectivity by leveraging a miniaturized very small form factor (VSFF)

Legrand AV | C2G | USB-C Docking Stations, HDMI, HDBaseT,

The C2G Thunderbolt™ 5 USB-C Cable is Intel®-certified and designed for ultra-fast data transfer, high-resolution video, and powerful device charging.

MMC Connector Solutions

The MMC connector ushers in a new era of high density, low insertion loss connectivity by combining a reduced size, MT-style ferrule (TMT) with a novel very small form factor (VSFF) connector

MDC/MMC Solutions | Telecommunication Systems

Next-generation VSFF-format optical connector technology and cabling that pursue high density and miniaturization. MMC connectors achieve three times the

Corning unveils suite of next-gen optical tech to connect

Corning also unveiled Contour Flow, a high-density microcable it claims “drastically” reduces cable diameter to maximize duct space to boost

MMC Connector Product Solutions Guide

MMC brand connectors, when terminated on a suitable optical fiber cable, are designed to meet the relevant optical, mechanical, and environmental performance against telecommunication standards

MMC Connector Solutions | Telecommunication Systems Business Unit

Fujikura's MMC connector delivers triple the density of MPO, leveraging DirectConec™ technology and TMT ferrules to enable high-density, high-performance optical cabling.

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MMC Connector Solutions

MMC connectors enable enhanced optical and mechanical performance over MPO connectors.

2m (7ft) MMC Breakout Cable, MMC-16 APC (Female) to 2 x MTP®-8

The MMC fibre cable is equipped with an MMC connector, a Very Small Form Factor (VSFF) multi-fibre optical connector designed to terminate single-mode and multimode fibre cables up to 2.5mm in

MMC — Continental Optronics

With decades of experience in fiber-optic cable assembly and custom connectivity solutions, Continental Optronics brings manufacturing discipline, rapid execution,

MMC Cable Assemblies

MMC-16 Interconnects Designed to provide high density in fiber optic connections, MMC-16 interconnects allow for a greater number of fibers in a smaller space

MMC Cable Assemblies

MMC connectivity enables solutions that minimize the space required across multiple applications, including structured cabling, high fiber count data center

MMC Fiber Optic Cable | T& S Communication

Optimize your fiber infrastructure with T& S Communication's MMC fiber optic cables, engineered with US Conec MMC connectors for ultimate space efficiency. Our multi-fiber MMC patchcords deliver up

MMC Cable Assemblies and Adapters

MMC Cable Assemblies and Adapters Helping data centers optimize space and density to meet AI-driven demands for increased capacity and performance, the MMC system leverages a very small

MMC Cable Assemblies

When every square inch matters, MMC helps you reclaim space without compromising performance. You don't need more complexity – you need flexible

Breaking Down the Innovations Behind MMC Fiber Cables

In the ever-evolving world of fiber optic cabling, the MMC connector, a VSFF (very small form factor) multi-fiber connector, is a revolutionary

Fibre Optic Cables – Mouser Greece

Fiber Optic Cables are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for many fiber optic cable manufacturers including Broadcom, Banner

MTP/MPO vs MMC: A Density Comparison

Learn about the difference in density between traditional MTP/MPO cables and newer MMC cables here on our Cabling Insider Blog.

MMC Connectors – WCFO

MMC Connectors WCFO is proud to announce the successful completion of US Conec's MMC certification. As the wave of AI and ML is sweeping the globe,

Contact Us

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