

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 form factor (VSFF) design to achieve higher density within the same footprint. 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.

ADVANTAGES AND FEATURES

Offers higher port density than alternative optical connectors

The compact form factor delivers up to three times the fiber density per rack unit when compared to MPO/MTP connectors.

Simplifies data center architecture by consolidating multiple connections into one connector

Aggregating multiple 8F MPO/MTP connections into a single 16F MMC connector streamlines infrastructure and helps optimize both space and network reliability.

Simplifies installation and maintenance

The push-pull boot and polarized guide rails make installation faster and easier while reducing the chance of assembly errors.

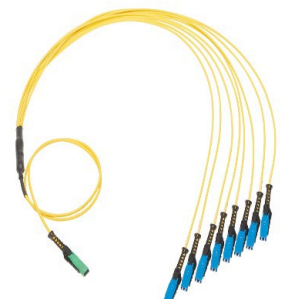
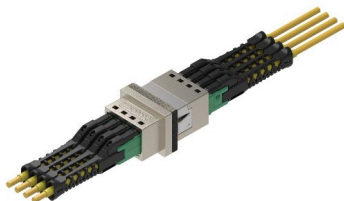
Insertion Loss (max.)	0.35 dB
Return Loss (max.)	-55 dB
Cable Outside Diameter	2.00 to 2.50mm
Cable Length	1.0 to 20.0m; longer cables available as custom solutions
Cable Assemblies	MMC-to-MMC, MMC-to-MPO, MMC-to-LC duplex, MMC-to-pigtail, MMC-to-MDC
Operating Temperatures	-40 to +70°C

Supports higher data rates and increased capacity for data centers

With increased fiber counts of 16 or 24 fibers in a single connector, the MMC system simplifies capacity upgrades for high-performance applications like hyperscale data centers.

Enhances EMI protection and helps improve signal integrity

EMI adapters use shielded designs, grounding mechanisms and high-quality materials to improve performance in applications subject to electronic noise.



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MARKETS AND APPLICATIONS

Servers and Storage

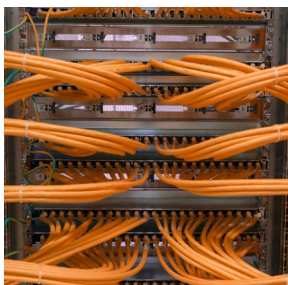
16- and 24-fiber applications
AI systems
High-density patch panels
OptoConnect aggregation enclosures

Networking

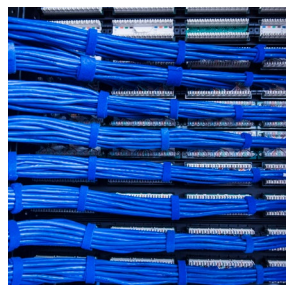
16- and 24-fiber applications
High-density patch panels
QSFP-DD applications
Signal aggregation devices

Telecommunications

Front panel I/O connections
High-bandwidth transceivers



Signal Aggregation Devices



High-Density Patch Panels



High-Bandwidth Transceivers

SPECIFICATIONS

Reference Information

Series: 106114 (adapters),
106292 (cable assemblies)
Packaging: Bag
Designed in: Millimeters
RoHS: Yes
Low Halogen: Available upon request
Fiber Count: 16 or 24
Cable Assemblies: MMC-to-MMC, MMC-to-MPO,
MMC-to-LC duplex, MMC-to-pigtail, MMC-to-MDC

Optical

Connector Insertion Loss (max.): 0.35 dB
Connector Return Loss (max.): -55 dB

Physical

Boot Type: Straight
Cable Type: Single mode
Cable Lengths: 1.0 to 20.0m
(cable lengths up to 100.0m available
as custom solutions)
Cable Outside Diameter: 2.00 to 2.50mm
Fiber (Core/Cladding) Diameter: 9/125µm
Operating Temperatures: -40 to +70°C

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