MPO AND MMC
LATE BINDING CABLE SOLUTIONS ❯

PRODUCT OVERVIEW

Ideal for rack-to-rack and top-of-rack optical connections in the final stages of data center system installation, MPO and MMC Late Binding Cable Solutions offer high-density connectors, off-the-shelf cable lengths and industry-standard color-coding. These products accelerate capacity improvements and simplify upgrades for AI clusters and high-performance data centers.

SOLVING INDUSTRY CHALLENGES

INDUSTRY CHALLENGE	PRODUCT SOLUTION
STREAMLINED COMPONENTS TO SUPPORT CAPACITY UPGRADES Data centers need optical interconnect solutions that enable AI-driven bandwidth upgrades while minimizing downtime and optimizing efficiency and system design flexibility.	MPO and MMC Late Binding Cable Solutions offer optical cables in 1.0 to 5.0m lengths that are ideal for rack-to-rack and top-of-rack connectivity, enabling data centers to install final connections with standardized and versatile cable assemblies.
INCREASED NETWORK RELIABILITY AND IMPROVED SYSTEM PERFORMANCE High-performance data centers need optical cables and connectors that deliver high system reliability, reduce maintenance requirements and optimize limited rack space.	MPO and MMC Late Binding Cable Solutions consolidate multiple fibers into a single robust and compact connector. This minimizes maintenance requirements by reducing the number of connections, simplifies installation and saves rack space in high-bandwidth applications.

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FEATURES AND ADVANTAGES

DELIVERS STANDARDIZED SOLUTIONS
Optical cables between 1.0 and 5.0m in length, with longer cables available upon request, offer off-the-shelf solutions optimized for late binding applications, helping data centers shorten lead times and reducing supply chain risks.

STREAMLINES ASSEMBLY OPERATIONS
Connectors using industry-standard interfaces and green color-coding help simplify assembly work while preventing improper connections.

SUPPORTS HIGH-DENSITY CONNECTIVITY
Compact MPO and MMC connectors with eight or 16 fibers per connector, together with round cable ideal for 360-degree cable routing, enable high bandwidth capacity in a compact space.

ENHANCES DESIGN FLEXIBILITY
Plenum-rated cables and standard MPO, MMC and LC Duplex interfaces support a variety of cable routing options and ensure compatibility with pre-installed cables.

APPLICATION SPOTLIGHT

ACCELERATING TIME TO MARKET FOR AI-DRIVEN CAPACITY UPGRADES
For data centers facing AI-driven demands for increased bandwidth, upgrading data center capabilities requires efficient and high-performance connectivity solutions. MPO and MMC Late Binding Cable Solutions from Molex provide data centers with a range of off-the-shelf, high-density optical cables designed for final rack connections, helping shorten timelines and enhance flexibility.

| Data center storage systems | Optical electrical modules | PC cards and patch panels |
| Servers | Top-of-rack (TOR) switches | Routers |

ORDERING INFORMATION

Part Number	Description	Fibers	Mode	Type	Length
106225-1001	MPO (8F) to MPO (8F)	8	Single-mode	Type B	1.0m
106225-1002	MPO (8F) to MPO (8F)	8	Single-mode	Type B	3.0m
106225-1003	MPO (8F) to MPO (8F)	8	Single-mode	Type B	5.0m
106225-1004	MPO (16F) to 2 x MPO (8F)	16	Single-mode	Breakout	3.0m
106225-1005	MPO (8F) to 4 x LC Duplex (UPC*)	8	Single-mode	Breakout	1.0m
106225-1006	MPO (8F) to 4 x LC Duplex (UPC*)	8	Single-mode	Breakout	3.0m
106225-1007	MMC (16F) to 2 x MPO (8F)	16	Single-mode	Breakout	5.0m

*UPC=ultra physical contact

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