MTP/MPO Data Center Cable Solutions

molex

With high-density connectors, multiple cable configurations and integrated specialty components, Molex MTP/MPO Data Center Solutions support the integration of high-performance networks while reducing the number of cables required and, thus, reducing overall system cost and maintenance
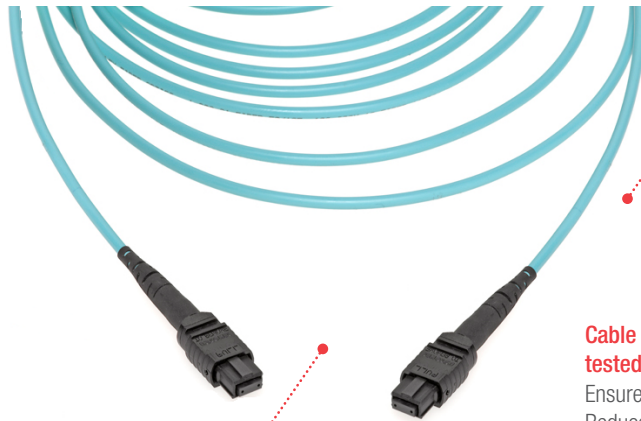
Features and Benefits

Cable Assemblies

Low-loss options available
Meets tight system insertion-loss budgets

Low-smoke, zero-halogen (LSZH)/Plenum/Riser rated
Fulfills flammability specifications for data center applications

12- and 24-fiber options available
Supports high-density data center applications. Reduces the number of cable assemblies required for system installation

Cable assemblies 100% quality tested prior to shipping
Ensures high performance. Reduces customer cost and time associated with testing
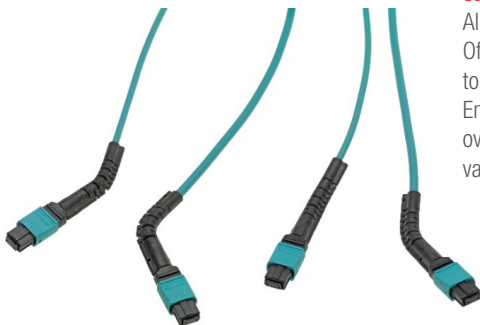
Industry-standard connector housing
Simplifies implementation. Compatible with other pre-installed cables

Features and Benefits

MTP/MPO Connector

Precision-molded NTT-compatible ferrule
Connects 4 to 24 fibers using ribbon cable

Push-pull connector housing
Provides quick and reliable connections

Multiple ribbons stacked inside round jacket
Provides low-profile solution for high-density applications

Features and Benefits

Adapters, accessories

FlexiBend Boots available for additional fiber routing capabilities
Alleviate cable congestion. Offers bendable strain relief to secure any configuration. Ensures cable performance over multiple bends in various directions

Ceramic or phosphor bronze alignment sleeves (where applicable)
Accommodate single-mode (SM) and multi-mode (MM) performance

Shuttered die cast adapters
Shields and isolates EMI emissions

Loopback adapters available
Enables testing and network diagnostics

Multi-port EMI adapter options
Ease space constraints on panel and increase ports within an envelope

EMI gaskets included
Provide electromagnetic interference (EMI) seal between the adapter and mounting surface
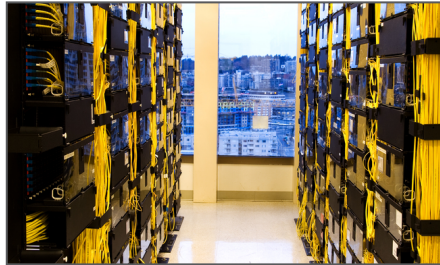
MTP/MPO Data Center Cable Solutions

Applications

Telecommunications/Networking

- Optical electrical modules
- Optical switches and routers
- PC cards and patch panels

Data Centers

- Servers

Data Center Servers

Specifications

REFERENCE INFORMATION
Packaging: Individually bagged
Mates With: Molex MPO Adapters/QSFP Transceivers
Use With: Molex MPO Adapters/QSFP Transceivers
Designed In: Meters
RoHS: Yes
Halogen Free: TBD

FIBER:
Multimode:
 - 50/125 μm OM3 Bend-Insensitive
 - 50/125 μm OM4 Bend-Insensitive
Single Mode:
 - OS2 ITU-T G.657.A1 Bend-Insensitive
CONNECTOR:
Connector Type:
 - MPO Female, Aqua for Multi-mode
 - MPO Female, Green for Single-mode

MECHANICAL
Fiber Count: 12 and 24 Fiber Options
Cable Diameter: 12F = 4.5/3.0mm
 24F = 5.4/3.8mm
Tensile Load: 12F = 660 N
 24F = 660 N
Min Bend Radius: 12F = 68mm
 24F = 89mm
24F and Low-Loss Options: 20N MTP Spring

Ordering Information

Series No.	Component
106005	Loopback, Singlemode and Multimode
106225	MPO Data Center Trunk Cable Assemblies
106114	Simplex EMI Adapter
106181	MTP Quad Adapter Assembly
106283	QSFP+ optical Jumper Cable Assembly

www.molex.com/link/mpodatacentersolutions.html