MTP/MPO Data Center Cable Solutions

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

- 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

**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 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

- Shuttered die cast adapters
  - Shields and isolates EMI emissions

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

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Applications

Telecommunications/Networking
- Optical electrical modules
- Optical switches and routers
- PC cards and patch panels

Data Centers
- 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

<table>
<thead>
<tr>
<th>Series No.</th>
<th>Component</th>
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<tbody>
<tr>
<td>106005</td>
<td>Loopback, Singlemode and Multimode</td>
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<tr>
<td>106226</td>
<td>MPO Data Center Trunk Cable Assemblies</td>
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<tr>
<td>106114</td>
<td>Simplex EMI Adapter</td>
</tr>
<tr>
<td>106181</td>
<td>MTP Quad Adapter Assembly</td>
</tr>
<tr>
<td>106283</td>
<td>QSFP+ optical Jumper Cable Assembly</td>
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