High-performance Cable Assemblies and Adapters for Mid-Board Optical Modules (MBOMs) deliver inside-the-box optic compatibility with transceivers from a wide range of vendors.

**Features and Benefits**

- **MTP/MPO cable assemblies:** ribbons encased in solid buffer core
  - Reduces fiber pistoning between ribbons

- **EMI shielding adapters available**
  - Enables both internal and external solutions.
  - Latching options available

- **MTP/MPO Connectors:**
  - Plenum rated
  - Meet system flammability requirements

- **Complete mid-board optical module connectivity solution**
  - Components are designed to work together for optimum performance. Delivers end-to-end connectivity from one vendor

- **EMI shielding adapters available**
  - Provides quick and reliable connectors.
  - Shields and isolates EMI Emissions

**Coming in 2019:**

As a member of the Consortium for the On-Board Optics (COBO) MSA, Molex will design products to support the interchangeable and interoperable optical modules developed from COBO’s specifications.

**VersaBeam POD assemblies with innovative perpendicular mating interface with parallel optical modules for board-mounted, row or clustered layouts**

- Provides optimum airflow on the PCB and ribbon-cable management above the optical modules. Capable of multiple re-matings to MBOMs

**Applications**

- **Data Centers**
  - Servers
  - Routers
  - Switches

- **Telecommunications**
  - Cloud computing
  - Servers

- **Customizable**
  - Can meet the requirements of a wide variety of MBOM and datacenter needs

**Applications**

- **Data Centers**
  - VersaBeam: 12-fiber, 1.80mm-jacketed round and bare-ribbon fiber assemblies available
  - Jacketed round cable allows cable to be routed in any direction while protecting the fiber during installation.
  - Variety of cable options provides design flexibility

**Applications**

- **COBO Shuffle Box**
  - MTP/MPO Cable Assemblies for Finisar MBOM
  - MTP/MPO Cable Assemblies for Avago MBOM
Cable Assemblies and Adapters for Mid-Board Optical Modules (MBOM)

Specifications

VersaBeam POD Cable Assemblies

REFERENCE INFORMATION
Packaging: Bag
12-Fiber Ribbon VersaBeam POD Cable
Mates to:
   - Avago MicroPOD Modules
   - Avago MiniPOD Modules
12-Fiber 1.80mm Round Jacketed VersaBeam POD Cable Mates to:
   - Avago MiniPOD Modules
Interface to Module:
   VersaBeam POD ferrule with Total Internal Reflection (TIR) Lens

PHYSICAL
Ribbon-Fiber VersaBeam POD Connector:
   - 5.70 by 7.40mm
1.80mm Jacketed Round VersaBeam POD Connector:
   - 4.80 by 28.50mm
Number of Fibers per VersaBeam POD Connector: 12
Fiber Type: 50/125μm

OPTICAL
Insertion Loss: 2.0 dB with Interposer

ENVIRONMENT
VersaBeam POD Cable qualified to operating temperature: -40 to +75°C
Designed for on-board cable routing
Proof test: 2.2N

REFERENCE INFORMATION
Packaging: Bag
Mates With: MTP/MPO connector to MTP/MPO, MT, or HBMT
Use With: Cable configurations with MPO/MTP, LC, VersaBeam POD, MT and other optical interconnects
Designed In: Millimeters
RoHS: Yes
Halogen Free: No

PHYSICAL
Housing Material: Polymer
Housing Color:
   - Aqua, Green or Black, others upon request
Ferrule: MT
Operating Temperature: -10 to +60°C

OPTICAL
MTP/MPO: 10-20N
Durability (min.): 50 cycles — Per Telcordia GR-1435
Insertion Loss (IL) (max.):
   - Multimode Fibers — 0.75dB
   - Singlemode Fibers — 1.0dB
Return Loss:
   - Multimode — -20dB
   - Singlemode — -20dB

Mid-Board Optical Modules and Compatible VersaBeam POD Cable Assemblies

Foxconn MiniPOD (Formerly Avago)

<table>
<thead>
<tr>
<th>Molex Series</th>
<th>Compatible Product</th>
<th>Directionality</th>
<th>Data Rate</th>
<th>Channels</th>
<th>Aggregate Bandwidth</th>
<th>Optical Interface</th>
<th>Approximate Size</th>
<th>Cable Type</th>
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## Ordering Information

### Mod-Board Optical Modules and Compatible MT Cable Assemblies

**Amphenol FCI LEAP**

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<th>Molex Series</th>
<th>Compatible Product</th>
<th>Directionality</th>
<th>Data Rate</th>
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**Reflex Photonics LightABLE SR12**

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**Finisar BOA**

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**Samtec FireFly**

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**EMI Adapters**

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<td>EMI MPO Adapter</td>
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<td>EMI MXC, MT Adapter</td>
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### Custom Cable Assemblies for Mid-Board Optical Modules

<table>
<thead>
<tr>
<th>Custom Product</th>
<th>Description</th>
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<tbody>
<tr>
<td>Contact Molex</td>
<td>Customized MBOM Cable Assemblies</td>
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