Features and Benefits
Ultra-small and durable fibers, ideal for a variety of installation environments:

- Reliable high-density, high-performance interconnections
  - Increases fiber density on fiber shelves and faceplates
  - Improves and simplifies fiber routing
  - Decreases fiber management space
- Telcordia GR-1435-CORE tested
- ANSI/TIA/EIA-604-5-199 FOCIS 5 compliant

Product Description
OFS offers an extensive line of high-density MPO multifiber connector products, including jumpers, fanouts, pigtails and connectorized cable. When you need a high-performance fiber optic connectivity solution, look to the OFS family of products featuring the MPO Connector.

Low loss single-mode MPO connectors deliver the performance and reliability needed in today’s demanding high-speed broadband and data networks. Multimode LaserWave® MPO jumpers and fanouts are designed to support high-speed, short-reach, data center applications.

The MPO Connector, with its familiar push-on/pull-off insertion release mechanism, provides consistent and repeatable interconnections with up to 48 fibers in a 0.7” x 0.4” minimum footprint.

The MPO product family is available with 8, 12, 24 and 48 fiber connectors featuring bare ribbon, tight-buffered ribbon and cordage, and includes standard adapters. Alternative fiber counts are available upon request.

Applications
OFS offers an extensive line of high-density MPO multifiber connector products, Reliable high-density interconnections for:

- Equipment Interconnections
- Telecommunications networks
- Broadband/CATV networks
- Data communications networks, including high-bandwidth equipment
- Interconnections for parallel optical transmitters and receivers

www.ofsoptics.com
MPO Jumper Specifications

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Ferrule/Polish</th>
<th>Loss (Typical)</th>
<th>Loss (Max)</th>
<th>Return Loss (Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPO</td>
<td>Single-Mode 8-Fiber APC</td>
<td>0.16 dB</td>
<td>0.35 dB</td>
<td>55 dB</td>
</tr>
<tr>
<td>MPO</td>
<td>Multimode PC</td>
<td>0.10 dB</td>
<td>0.35 dB</td>
<td>20 dB</td>
</tr>
</tbody>
</table>

Note: Ordering information on back page.

Low-Loss MPO 8-Fiber Jumper

MPO jumpers and pigtails provide high-density connections in a small footprint. Low loss single-mode jumpers deliver superior loss performance for demanding, high-speed applications.

MPO Adapter Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Comcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPO Adapter</td>
<td>300467073</td>
</tr>
</tbody>
</table>

OFS offers standard MPO Adapters, packaged individually or in bulk quantities of 100.
OFS MPO fanouts provide dependable, high-quality transitions from ribbon fibers or cables to individual fiber connection ports. MPO fanouts are available with up to 12 fibers featuring FC, SC, ST and LC connectors. These fanouts offer low insertion loss and reflectance, and are available in both ruggedized and bare ribbon formats.

### MPO Fanout Specifications

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Ferrule/Polish</th>
<th>Loss (Typical)</th>
<th>Loss (Max)</th>
<th>Return Loss (Min)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Single-Mode APC</td>
<td>0.16 dB</td>
<td>0.35 dB</td>
<td>55 dB</td>
</tr>
<tr>
<td>Single Fiber</td>
<td>Single-Mode UPC</td>
<td>0.15 dB</td>
<td>0.30 dB</td>
<td>55 dB</td>
</tr>
<tr>
<td>Single Fiber</td>
<td>Single-Mode APC</td>
<td>0.15 dB</td>
<td>0.30 dB</td>
<td>65 dB</td>
</tr>
</tbody>
</table>

**Note:** Ordering information on back page.
**MPO Jumper, Pigtail and Fanout Ordering Information**

**Examples:** It is critical to note what equipment the assembly is mating with in order to select the correct connector. Male connectors have pins and cannot connect to another male connector. An angled polish connector should not be mated to a flat polish connector.

- **MPO12NA-21-RC05X-2.5M** – MPO, 12 fiber, No pins (female), polish: APC, # of connectors: 2, standard patchcord (1), bare ribbon cordage, fiber: MM – 50/125 [OM2], overall length: 2.5 meters

- **MPO8PA/MPO8NU-2X-RCMKB-12P** – Conn A: MPO, 8 fiber, Pins (male), polish: APC, Conn B: MPO, 8 fiber, No pins (female), polish: PC, # of connectors: 2, hybrid patchcord (X), ribbon cordage PVC tight buffered, fiber: SM - AllWave® FLEX® [G657.A2], overall length: 12 feet

- **MTP12PA/LCU-21-MBBPY-0.5/5M** – Conn A: MTP, 12 fiber, Pins (male), polish: APC, Conn B: LC, polish: UPC, 2.0mm furcation, M-Pack® plenum Backbone cable ,fiber: SM – Blue Tiger, breakout length: 0.5 meter overall length (tip-to-tip): 5 meters

**Syntax:**

\[aaa \quad bb \quad c \quad d \quad / \quad aaa \quad bb \quad c \quad d \quad - \quad e \quad f \quad - \quad gg \quad h \quad i \quad j \quad - \quad lll \quad / \quad nnn \quad u \quad XC \quad PE\]

- **aaa** - Connectors
  - MPO, MT, MTP, MPX, LC, SC

- **bb** - Fiber Count
  - 8, 12, 24 or 48

- **cc** - Gender
  - P = Pins (make)  
  - N = No Pins (female)

- **dd** - Polish
  - U = Flat Polish  
  - A = Angle Polish (8°)

- **ee** - Design
  - 1 = Multifiber pigtail  
  - 2 = Multifiber jumper or 2.0 mm fanout  
  - 9 = 0.9 mm fanout

- **ff** - Assembly Type
  - 1 = pigtail, jumper with same ends (ex. MPO12PU-MPO12NU), hybrid (multifiber to fanout (ex. MPO8NA-LCU), low loss 0.35 dB  
  - L = Low Loss 0.35 dB  
  - S = Super Low Loss 0.15 dB  
  - X = different multi-fiber connectors (ex. MT12PU-MPO11NU)

- **gg** - Cordage*
  - RC = Flat Ribbon Cable or Bare Ribbon  
  - MP = M-Pack® Interconnect Cordage  
  - MB = M-Pack® Backbone Cable  
  - AT = AccuPack™ TC (Tough Coat)  
  - AI = AccuPack Indoor/Outdoor Cable

- **hh** - Fiber Type
  - 7 = AllWave® FLEX+ Enhanced (G.657.A2)  
  - I = Multimode - 62.5/125 [OM1]  
  - M = Multimode - 50/125 [OM2]  
  - Z = LaserWave FLEX 300 [OM3]  
  - X = LaserWave FLEX 550 [OM4]

- **ii** - Jacket Type*
  - O = Bare Ribbon  
  - R = Riser  
  - P = Plenum  
  - H = LSZH IEC 60332-3C

- **jj** - Jacket Color
  - X = Bare Ribbon (no color)  
  - O = Orange (50 µm & 62.5 µm Multimode Fiber)  
  - S = Slate (Optional color 62.5 Multimode)  
  - W = White (EZ-Bend Fiber)  
  - B = Black (Indoor/Outdoor Cordage Fiber)  
  - Y = Yellow (AllWave FLEX Fiber)  
  - A = Aqua (LaserWave 150 G+, 300, 550 Fiber)

- **llll** - Breakout Length
  - If a hybrid (multifiber to single connector [LC, SC, etc], 111 is the breakout length. Standard offering is 0.5 m.  
  - Max: 3 m.  
  - If pigtail or multifiber-to-multifiber jumper, omit.

- **nnnn** - Length
  - 001 - 999

- **uu** - Unit of Measure
  - M = Meters (min. 1 m)  
  - C = Centimeters (min. 15 cm simplex/45 cm duplex)  
  - F = Feet (min. 1 ft)  
  - I = Inches (min. 6 in. simplex/18 in. duplex)

- **XC** - Cross Fiber Pattern (optional)

- **PE** - Pulling Eye (optional)

**Note:** M-Pack Backbone Cable is only available with B Fiber (Blue-Tiger®)

* Available jacket types are based on the chosen cordage (or vice versa). See table for determination of cordage/jacket type.

**For additional information please contact your sales representative. You can also visit our website at www.ofsoptics.com or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.**

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