

Optiwave™ Series MPO Cassettes

Overview

The Fibertronics Inc. Optiwave™ MPO/MTP® Cassettes provide a streamlined, modular solution for high-density fiber connectivity in data centers, telecom networks, enterprise environments, and beyond. Each cassette serves as a breakout module that transitions from an MPO trunk cable to standard fiber optic connectors—such as LC, SC, FC, or ST—on the front of the cassette. These pre-terminated, factory-tested units eliminate the need for splicing, ensuring quick deployment, reliable performance, and easy scalability.

Designed with a standard LGX-Style footprint, the cassettes integrate seamlessly into compatible patch panels and enclosures, supporting both horizontal and vertical installations. Built using premium Corning fiber and durable steel housings, Optiwave™ MPO Cassettes are engineered for long-term performance across a wide range of network environments.

Key Features

- LGX-Compatible Design
- Flexible Port Configurations
- Rear MPO/MTP® Interface
- Pre-Terminated Fanout Assembly
- Premium Fiber Options
- High-Density Configuration
- Low Insertion & Return Loss
- Rugged Construction
- Flexible Mounting

Typical Applications

- Data Centers
- Telecom Facilities
- Enterprise Networks
- FTTx Networks
- Broadcast & Media
- Industrial Environments
- Testing & Labs

Technical Specifications

Material	16-Gauge Powder-Coated Steel
Dimensions	29mm x 129mm x 121mm
Mounting Compatibility	LGX-Compatible Panels (Horizontal or Vertical)
RoHS Compliant	Yes



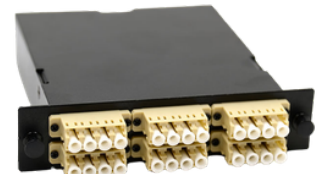
MTC-12LCAH19L



MTC-12SCH19L



MTC-12SCI17L



MTC-24LCI26L



MTC-24LCH29L



MTC-24LCAH29L

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Example: Optiwave™ 24 Fiber MPO Cassette - OM3 - (x24) LC/UPC to (x3) 12 Fiber MPO/UPC Low Loss - QSFP Pinout



Fiber Count	Face Connector	MPO Rear	# of MPOs	Fiber Mode
<p>≤ 12: Any Connector</p> <p>24: LC Connectors</p>	<p>LC: LC/UPC</p> <p>LCA: LC/APC</p> <p>SC: SC/UPC</p> <p>SCA: SC/APC</p> <p>FC: FC/UPC*</p> <p>FCA: FC/APC*</p> <p>ST: ST/UPC*</p>	<p>A: 8F MPO/APC (male)</p> <p>B: 8F MPO/APC (female)</p> <p>C: 8F MPO/UPC (male)</p> <p>D: 8F MPO/UPC (female)</p> <p>E: 12F MPO/APC Elite (male)</p> <p>F: 12F MPO/APC Elite (female)</p> <p>G: 12F MPO/APC Standard (male)</p> <p>H: 12F MPO/APC Standard (female)</p> <p>I: 12F MPO/UPC Elite (male)</p> <p>J: 12F MPO/UPC Elite (female)</p> <p>K: 12F MPO/UPC Standard (male)</p> <p>L: 12F MPO/UPC Standard (female)</p> <p>M: 24F MPO/APC Elite (male)</p> <p>N: 24F MPO/APC Elite (female)</p> <p>O: 24F MPO/APC Standard (male)</p> <p>P: 24F MPO/APC Standard (female)</p> <p>Q: 24F MPO/UPC Elite (male)</p> <p>R: 24F MPO/UPC Elite (female)</p> <p>S: 24F MPO/UPC Standard (male)</p> <p>T: 24F MPO/UPC Standard (female)</p> <p>U: 16F MPO/APC Elite (male)</p> <p>V: 16F MPO/APC Elite (female)</p> <p>W: 16F MPO/APC Standard (male)</p> <p>X: 16F MPO/APC Standard (female)</p> <p>Y: 16F MPO/UPC Elite (male)</p> <p>Z: 16F MPO/UPC Elite (female)</p> <p>1: 16F MPO/UPC Standard (male)</p> <p>2: 16F MPO/UPC Standard (female)</p>	<p>#: ≤ 3 MPOs</p>	<p>9: Single-mode OS2 (9/125µm)</p> <p>6: Multimode OM1 (62.5/125µm)</p> <p>7: Multimode OM3 (50/125µm)</p> <p>4: Multimode OM4 (50/125µm)*</p> <p>5: Multimode OM5 50/125µm</p>
		<p>Cassette Size</p> <p>L: LGX Mounting</p>		
		<p>Polarity</p> <p>: Straight Pinout (Keep Blank)</p> <p>U: Universal Pinout</p> <p>UI: Inverted Universal</p> <p>Q: QSFP Pinout</p> <p>C: Customer Provided Pinout</p>		

*Extra Lead Time May Apply

**Not Available for All Cable Types

Custom Options

Fibertronics Inc. offers a wide range of **custom MPO/MTP® cassette configurations** to meet your exact specifications. These include:

- Custom fiber modes, connector types, and fiber counts
- MPO-to-MPO pass-through cassettes and custom pinout mapping boxes
- Unique connector mixes or fiber breakout layouts
- Private labeling and special color coding for identification

To request a custom solution, contact our sales team at: sales@fibertronics.com