

Optiwave™ Series MPO Cassettes

LGX-Compatible, Pre-Terminated Fiber Breakout Solutions

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 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	1.38" x 4.29" x 4.64" (35 x 109 x 118 mm)
Mounting Compatibility	LGX Compatible Panels (Horizontal or Vertical)
RoHS Compliant	Yes



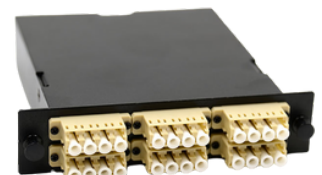
MPC-12LCAH19L



MPC-12SCH19L



MPC-12SC17L



MPC-24LC126L



MPC-24LCH29L



MPC-24LCAH29L

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



Fiber Count	MPO Rear	# of MPOs
≤ 12: Any Connector 24: LC Connectors	A: 8F MPO/APC (male) B: 8F MPO/APC (female) C: 8F MPO/UPC (male) D: 8F MPO/UPC (female) E: 12F MPO/APC Elite (male) F: 12F MPO/APC Elite (female) G: 12F MPO/APC Standard (male) H: 12F MPO/APC Standard (female) I: 12F MPO/UPC Elite (male) J: 12F MPO/UPC Elite (female) K: 12F MPO/UPC Standard (male) L: 12F MPO/UPC Standard (female) M: 24F MPO/APC Elite (male) N: 24F MPO/APC Elite (female) O: 24F MPO/APC Standard (male) P: 24F MPO/APC Standard (female) Q: 24F MPO/UPC Elite (male) R: 24F MPO/UPC Elite (female) S: 24F MPO/UPC Standard (male) T: 24F MPO/UPC Standard (female) U: 16F MPO/APC Elite (male) V: 16F MPO/APC Elite (female) W: 16F MPO/APC Standard (male) X: 16F MPO/APC Standard (female) Y: 16F MPO/UPC Elite (male) Z: 16F MPO/UPC Elite (female) 1: 16F MPO/UPC Standard (male) 2: 16F MPO/UPC Standard (female)	#: ≤ 3 MPOs
Face Connector		Fiber Mode
LC: LC/UPC LCA: LC/APC SC: SC/UPC SCA: SC/APC FC: FC/UPC* FCA: FC/APC* ST: ST/UPC*		9: Single-mode 9/125μm OS2 6: Multimode 62.5/125μm OM1 2: Multimode 62.5/125μm OM2 7: Multimode 62.5/125μm OM3 4: Multimode 62.5/125μm OM4* 5: Multimode 62.5/125μm OM5
		Cassette Size
		L: LGX Mounting
		Polarity
		: Straight Pinout (Keep Blank) U: Universal Pinout UI: Inverted Universal Q: QSFP Pinout C: Customer Provided Pinout

*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