



FotonShield MD MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss – 8 x LC/UPC, MM OM5



Applicable Standards

- IEC 61754-20 : Fiber Optic Connector Interfaces – Part 20: LC Connectors
- IEC 61754-7 : Fiber Optic Connector Interfaces – MPO Connectors
- ISO/IEC 11801 : Generic Cabling for Customer Premises
- IEC 61300-3-35 (End-Face Cleanliness)
- ANSI/TIA-492AAAE : OM5 multimode fiber specification
- RoHS and REACH

Product Part Number

N176.MPO8x3LCU4A

Product Description

The **FotonShield MD MPO-LC Cassette** is a high-density fiber breakout module designed to facilitate MPO-to-LC conversion for **OM5 wideband multimode fiber (WBMMF)** applications. Featuring **three 8F MPO (Male) low-loss connectors** at the rear and **12 LC/UPC duplex adapters** at the front, this cassette efficiently manages 24 fibers, ensuring high-speed, low-loss optical connectivity. Optimized for 40G/100G/400G short-reach applications, the cassette enables **wavelength multiplexing between 850nm and 950nm**, extending transmission distances and reducing fiber count. Designed for high-density data centers, this unit combines durability, quick deployment, and future-ready performance.

Product Features

- Triple 8F MPO (Male) Low-Loss Connectivity : Supports three 8-fiber MPO trunk cables, providing high-speed optical networking.
- Three 8 x LC/UPC Ports for Breakout : Provides a structured, high-density fiber termination solution with low insertion loss.
- Low Insertion Loss MPO Interface : Precision-aligned connectors for superior signal integrity in OM5 links.
- Polarity A (Straight-Through Configuration) : Ensures proper alignment in structured cabling environments.
- UL-94 V0 Flame-Retardant ABS + PC Housing : High durability, impact resistance, and enhanced fire safety.
- Plug-and-Play Modular Design : Enables fast and easy deployment in high-density rack-mount environments.
- Reliable Locking Mechanism : Push-Down to Release & Pull to Remove system for secure and effortless cassette mounting.





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Material Specifications

Type	MD MPO-LC Cassette (with 3 Nos. of 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Multimode OM5 (WBMMF)
LC Connector	Insertion Loss : ≤ 0.25 dB, Return Loss : UPC ≥ 35 dB
MPO (Elite) Connector	Insertion Loss : ≤ 0.35 dB, Return Loss : UPC ≥ 35 dB
Adapter Type	Duplex LC/UPC
Polarity	Type A (Straight-Through)
Housing Material	ABS + PC (UL-94 V0 Flame-Retardant)
Application	Data Centers, Enterprise Networks, High-Density Fiber Distribution, 40G/100G/400G Deployments

Environmental Specifications

Operating Temperature Range	- 20°C to 70°C
Storage Temperature Range	- 20°C to 70°C

Ordering Information

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