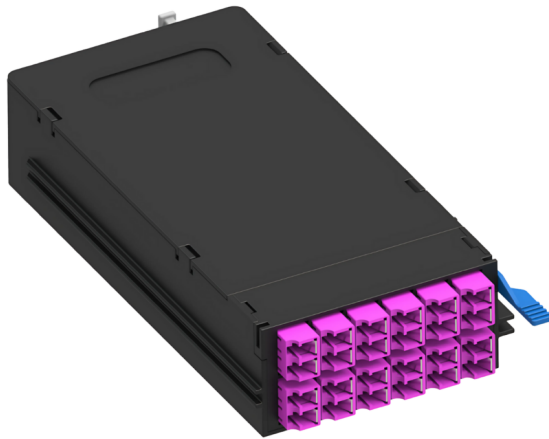




FotonShield MD MPO-LC Cassette, 24F MPO (Male) Low Loss – 24 x LC/UPC, MM OM4



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
- TIA-492AAAD : OM4 multimode fiber performance specification
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Part Number

N176.MPO24LCU3A

Product Description

The **FotonShield MD MPO-LC Cassette** is a high-performance fiber breakout module engineered for **OM4 Multimode** applications. Featuring a **24-fiber MPO (Male) Low Loss connector** on the rear and **12 LC/UPC Duplex adapters** on the front, it enables reliable and space-efficient MPO-to-LC transitions for high-speed links such as 10G, 40G, and 100G Ethernet. Designed for data centers, enterprise backbones, and high-density telecom deployments, the cassette provides low insertion loss, quick plug-and-play installation, and seamless integration with FotonShield MD modular enclosures.

Product Features

- Single 24F MPO (Male) Low-Loss Connectivity : Simplifies high-fiber-count deployments using one trunk cable, reducing congestion and installation complexity.
- Optimized for OM4 Multimode Fiber : Supports extended reach for high-speed applications, including 100G SR4 and parallel optics.
- 12 x LC/UPC Duplex Adapters : Provides convenient front-panel LC connectivity for switches, panels, and active equipment.
- 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.



Material Specifications

Type	MD MPO-LC Cassette (with 24F MPO Low Loss - 24 x LC/UPC)
Fiber Type	Multimode OM4
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

N176.MPO24LCU3A	FotonShield MD MPO-LC Cassette, 24F MPO (Male) Low Loss - 24 x LC/UPC, MM OM4
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