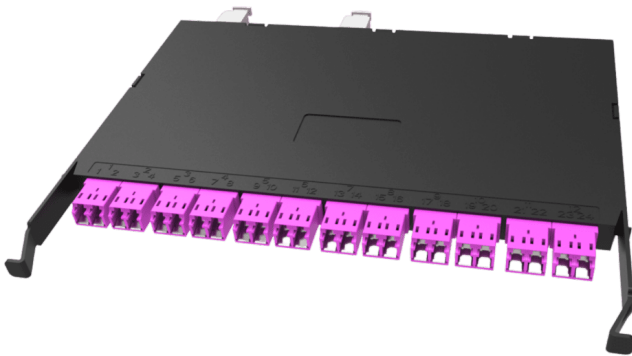




FotonShield MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM4



Applicable Standards

- IEC 61754-7 (MPO Connector)
- IEC 61754-20 (LC)
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Part Number

N172.MPO12x2LCU3A

Product Description

The **FotonShield MPO-LC Cassette** is a high-density fiber optic module designed for data centers, enterprise networks, and high-speed structured cabling. This cassette integrates **two 12F MPO (Male) low-loss connectors**, supporting **two 12-fiber MPO trunk cables**, and provides **two 12 x LC/UPC ports** for structured fiber breakout. Built with **OM4 multimode fiber (50/125µm)**, this cassette enables superior transmission performance for 10G, 40G, and 100G applications, with enhanced reach over OM3 fiber. The **UL-94 V0 flame-retardant ABS + PC** housing ensures durability, impact resistance, and fire safety compliance, making it an ideal choice for high-density fiber networks.

Product Features

- **Dual 12F MPO (Male) Low-Loss Connectivity** : Supports two 12-fiber MPO trunk cables, optimizing high-speed optical transmission.
- **Two 12 x LC/UPC Ports for Breakout** : Provides a structured, high-density fiber termination solution with low insertion loss.
- **OM4 Multimode Fiber (50/125µm)** : Optimized for higher bandwidth and extended reach for 10G, 40G, and 100G Ethernet applications.
- **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.





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Material Specifications

Type	MPO-LC Cassette (with 2 Nos. of 12F MPO Low Loss - 12 x LC/UPC)
Fiber Type	Multimode OM4 (50/125µm)
LC Connector	Insertion Loss : <0.25 dB, Return Loss: UPC ≥35dB
MPO (Elite) Connector	Insertion Loss : <0.35 dB, Return Loss : UPC ≥35dB
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

N172.MPO12x2LCU3A	FotonShield MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM4
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