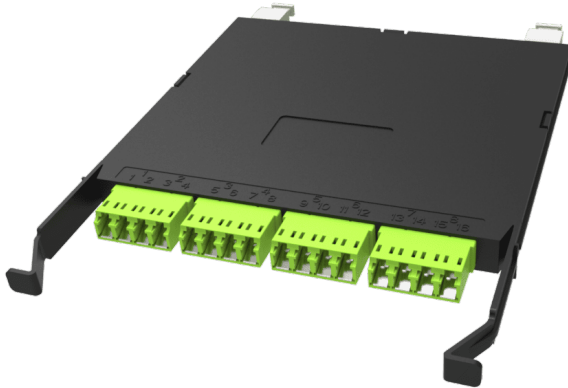




FotonShield MPO-LC Cassette, 16F with 2 x 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM5



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.MPO8x2LCU4A

Product Description

The **FotonShield MPO-LC Cassette** is a high-performance, high-density fiber optic module designed to ensure efficient connectivity and fast deployment in data centers, telecom networks, and high-speed structured cabling systems. Featuring **two 8F MPO (Male) low-loss connectors**, the cassette supports **two 8-fiber MPO trunk cables** and provides **two 8 x LC/UPC ports** for fiber breakout applications. Constructed with **OM5 multimode fiber**, this cassette is engineered for high-speed data transmission, particularly suited for 40G/100G Ethernet and future-proofed high-bandwidth applications. The bend-insensitive fiber reduces signal loss in tight cable management spaces. The compact housing, made of **UL-94 V0 flame-retardant ABS + PC**, ensures durability, impact resistance, and compliance with fire safety standards—making it the ideal choice for critical network infrastructure.

Product Features

- Dual 8F MPO (Male) Low-Loss Connectivity : Supports two 8-fiber MPO trunk cables, enabling high-speed optical networking.
- Two 8 x LC/UPC Ports for Breakout : Provides a structured, high-density fiber termination solution with low insertion loss.
- OM5 Multimode Fiber – Perfect for 40G/100G Ethernet and future-proofed applications with optimized bandwidth and minimal loss over longer distances.
- Polarity A Configuration : Ensures industry-standard fiber mapping for easy and seamless network integration.
- 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 2Nos. of 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Multimode OM5 (50/125μm)
LC Connector	Insertion Loss : ≤0.25 dB, Return Loss : UPC ≥55dB
MPO (Elite) Connector	Insertion Loss : ≤0.35 dB, Return Loss : UPC ≥55dB
Adapter Type	Quad LC/UPC
Polarity	Type A
Housing Material	ABS + PC (UL-94 V0 Flame-Retardant)
Application	Data Centers, Enterprise Networks, Telecom

Environmental Specifications

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

Ordering Information

N172.MPO8x2LCU4A	FotonShield MPO-LC Cassette, 16F with 2Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM5
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