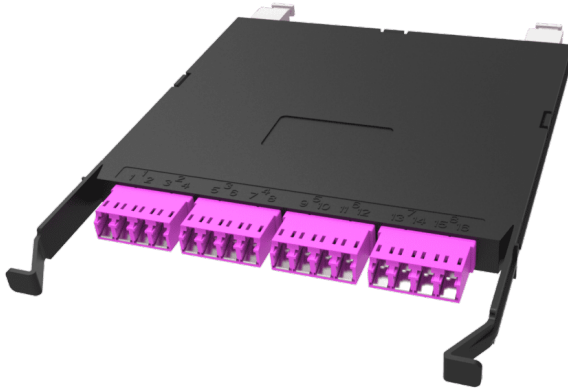




FotonShield MPO-LC Cassette, 16F with 2Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM4



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.MP08x2LCU3A

Product Description

The **FotonShield MPO-LC Cassette** is a high-density fiber optic module designed for efficient, high-performance connectivity and fast deployment in data centers, telecom networks, and high-speed structured cabling systems. This cassette features **two 8F MPO (Male) low-loss connectors**, supporting **two 8-fiber MPO trunk cables** and providing **two 8 x LC/UPC ports** for fiber breakout applications. Built with **OM4 multimode fiber**, the cassette ensures high-speed data transmission for 40G/100G Ethernet and other high-bandwidth applications. The bend-insensitive fiber reduces signal loss in tight bends, while the compact housing, made from **UL-94 V0 flame-retardant ABS + PC**, provides durability, impact resistance, and compliance with fire safety standards—making it ideal for mission-critical network environments.

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.
- **OM4 Multimode Fiber** : Perfect for 40G/100G Ethernet and high-speed applications with optimized bandwidth and minimal loss.
- **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 2 Nos. of 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Multimode OM4 (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.MPO8x2LCU3A	FotonShield MPO-LC Cassette, 16F with 2Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM4
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