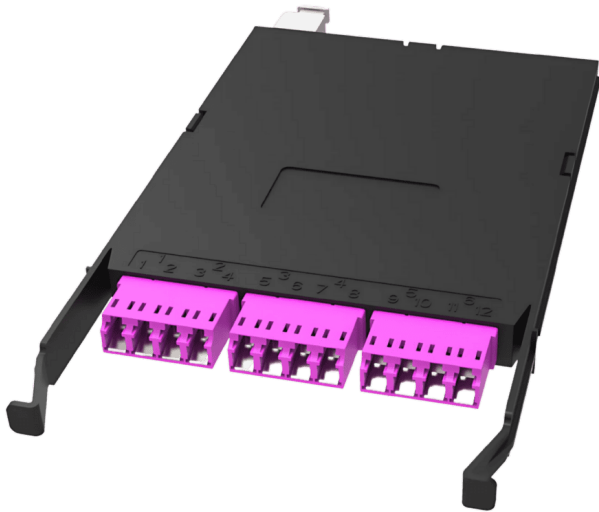




FotonShield MPO-LC Cassette, 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM4



Applicable Standards

- IEC 61754-7 (MPO Connector)
- IEC 61755-3-1 (LC/UPC)
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Part Number

N172.MPO12LCU3A

Product Description

The **FotonShield 12F MPO-LC Cassette** is a high-performance fiber optic module designed for low-loss, high-density multimode connectivity in data centers, enterprise networks, and high-speed backbone infrastructures. Featuring an **MPO (Male) Elite connector** and **3 x LC/UPC Quad adapters**, this cassette ensures minimal insertion loss, optimized signal integrity, and enhanced performance for 10G/40G/100G applications. Built with **OM4 multimode fiber**, this cassette provides improved modal bandwidth and extended reach compared to OM3, making it ideal for high-speed data transmission in structured cabling environments. The housing is constructed from **ABS + PC** with a **UL-94 V0** flame-retardant rating, ensuring durability, fire resistance, and long-term reliability in critical installations.

Product Features

- Ultra-Low Loss MPO Elite Connector : Provides exceptional signal integrity and minimal insertion loss.
- OM4 Multimode Fiber : Optimized for high-speed 10G, 40G, and 100G Ethernet applications with extended reach.
- 12 x LC/UPC Ports : Designed for reliable fiber terminations and superior return loss performance.
- 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	12F MPO-Male (Elite) to LC/UPC
Fiber Type	Multimode OM4 (50/125µm)
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	Quad LC/UPC
Polarity	Type A (Straight-Through)
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.MPO12LCU3A	FotonShield MPO-LC Cassette, 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM4
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