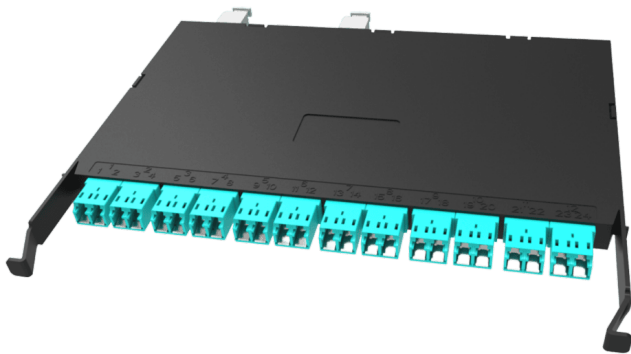




# FotonShield MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM3



## 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.MP012x2LCU2A

## 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 **OM3 multimode fiber (50/125µm)**, this cassette enables optimized transmission for 10G, 40G, and 100G applications while ensuring low insertion loss and high reliability. The **UL-94 V0 flame-retardant ABS + PC** housing guarantees durability, impact resistance, and fire safety compliance, making it a reliable choice for high-density optical 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.
- **OM3 Multimode Fiber (50/125µm) :** Optimized 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.



## Material Specifications

Type	MPO-LC Cassette (with 2 Nos. of 12F MPO Low Loss - 12 x LC/UPC)
Fiber Type	Multimode OM3 (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/APC
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.MPO12x2LCU2A	FotonShield MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM3
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