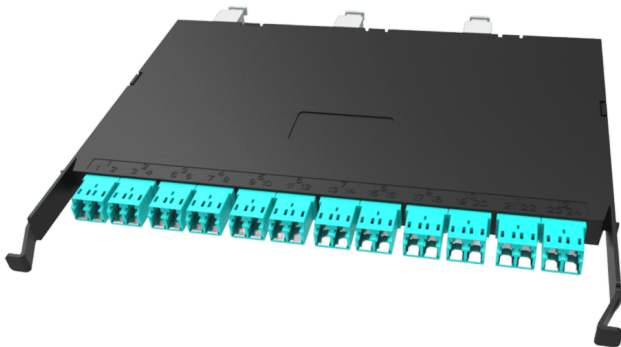




# FotonShield MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM3



## 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.MP08x3LCU2A

## Product Description

The **FotonShield MPO-LC Cassette** is a high-density fiber optic module designed for seamless fiber distribution in data centers, enterprise networks, and high-speed structured cabling systems. This cassette features **three 8F MPO (Male) low-loss connectors**, supporting **three 8-fiber MPO trunk cables**, and provides **three 8 x LC/UPC ports** for easy fiber breakout and patching. Engineered with **OM3 multimode fiber**, this cassette supports high-speed 10G, 40G, and 100G Ethernet applications, ensuring low insertion loss and superior optical performance. The **UL-94 V0 flame-retardant ABS + PC** housing enhances durability, impact resistance, and fire safety compliance, making it ideal for mission-critical network deployments.

## Product Features

- Triple 8F MPO (Male) Low-Loss Connectivity : Supports three 8-fiber MPO trunk cables, providing high-speed optical networking.
- Three 8 x LC/UPC Ports for Breakout : Provides a structured, high-density fiber termination solution with low insertion loss.
- OM3 Multimode Fiber : Optimized for 10G, 40G, and 100G high-speed data transmission with extended reach.
- Polarity A Configuration : Standardized fiber mapping for seamless integration into existing network infrastructure.
- 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.





## FotonShield MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM3

### Material Specifications

Type	MPO-LC Cassette (with 3 Nos. of 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Multimode OM3 (50/125µm)
LC Connector	Insertion Loss : $\leq 0.25$ dB, Return Loss : UPC $\geq 35$ dB
MPO (Elite) Connector	Insertion Loss : $\leq 0.35$ dB, Return Loss : UPC $\geq 35$ dB
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.MPO8x3LCU2A	FotonShield MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, MM OM3
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