



# FotonShield MPO-LC Cassette, 16F with 2Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, SM G.657A2



## 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.MP08x2LCU5A2A

## Product Description

The **FotonShield MPO-LC Cassette** is a high-density fiber optic module designed for efficient connectivity, fast deployment, and superior optical performance 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 **bend-insensitive G.657A2 single-mode fiber**, this cassette minimizes signal loss in tight routing scenarios while ensuring high-performance transmission for 40G/100G/400G applications. The compact and modular housing, made from **UL-94 V0 flame-retardant ABS + PC**, ensures durability and fire safety compliance, making it ideal for mission-critical network installations.

## 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.
- **G.657A2 Bend-Insensitive Fiber** : Ensures reliable performance even in tight bends, reducing signal attenuation.
- **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 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Single Mode OS2 (G657A2)
LC Connector	Insertion Loss : $\leq 0.25$ dB, Return Loss : UPC $\geq 55$ dB
MPO (Elite) Connector	Insertion Loss : $\leq 0.35$ dB, Return Loss : UPC $\geq 55$ 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.MPO8x2LCU5A2A	FotonShield MPO-LC Cassette, 16F with 2Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, SM G.657A2
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