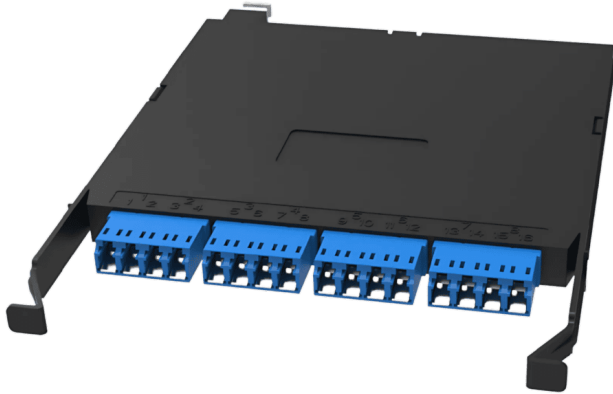




# FotonShield MPO-LC Cassette, 16F MPO (Male) Low Loss - 16 x LC/UPC, SM G.657A2



## 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.MP016LCU5A2A

## Product Description

The **FotonShield 16F MPO-LC Cassette** is a high-performance fiber optic module designed for low-loss, high-density connectivity in data centers and enterprise networks. Featuring an **MPO (Male) Elite connector** and **4 x LC/UPC Quad adapters**, this cassette ensures superior optical performance and efficient fiber management. Built with **OS2 G657A2 fiber**, this cassette provides minimal insertion loss and optimized signal integrity, making it ideal for structured cabling, telecom, and hyperscale 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.
- Optimized for OS2 G657A2 Fiber : Supports long-distance, high-bandwidth applications with reduced attenuation.
- 16 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.



## Material Specifications

Type	16F MPO-Male (Elite) to 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.MPO16LCU5A2A	FotonShield MPO-LC Cassette, 16F MPO (Male) Low Loss - 16 x LC/UPC, SM G.657A2
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