

FotonShield MD MPO-LC Cassette, 24F MPO (Male) Low Loss - 24 x LC/UPC, SM OS2



Applicable Standards

- IEC 61754-20 : Fiber Optic Connector Interfaces Part 20: LC Connectors
- IEC 61754-7: Fiber Optic Connector Interfaces MPO Connectors
- ISO/IEC 11801 : Generic Cabling for Customer Premises
- ANSI/TIA-568.3-D : Optical fiber cabling standard
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Part Number

N176.MP024LCU5A

Product Description

The FotonShield MD MPO-LC Cassette is a high-density fiber breakout module optimized for OS2 Single Mode applications. It features a single 24-fiber MPO (Male) Low Loss connector at the rear and 12 LC/UPC Duplex adapters at the front, enabling seamless and efficient 24-fiber management. Designed for deployment in data centers, enterprise networks, and telecom environments, this cassette simplifies high-speed MPO-to-LC transitions while ensuring low insertion loss, quick installation, and long-term reliability. It is fully compatible with FotonShield MD modular enclosures, offering plug-and-play scalability for 10G to 100G+network architectures.

Product Features

- Single 24F MPO (Male) Low-Loss Connectivity:
 Enables high-density fiber breakout with a single
 MPO trunk cable, reducing congestion and simplifying
 cable management.
- Optimized for SM OS2 Applications: Engineered for long-reach, high-bandwidth single mode fiber systems.
- Low-Loss Performance: Utilizes premium-grade ferrules to ensure minimal insertion loss, supporting long-distance OS2 networks.
- 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.
- Reliable Locking Mechanism: Push-Down to Release & Pull to Remove system for secure and effortless cassette mounting.





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Material Specifications

Туре	MD MPO-LC Cassette (with 24F MPO Low Loss - 24 x LC/UPC)	
Fiber Type	Single Mode OS2	
LC Connector	Insertion Loss : <0.25 dB, Return Loss : UPC >55dB	
MPO (Elite) Connector	Insertion Loss : <0.35 dB, Return Loss : UPC >55dB	
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

N176.MP024LCU5A FotonShield MD MP0-LC Cassette, 24F MP0 (Male) Low Loss - 24 x LC/UPC, Si	1 OS2
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