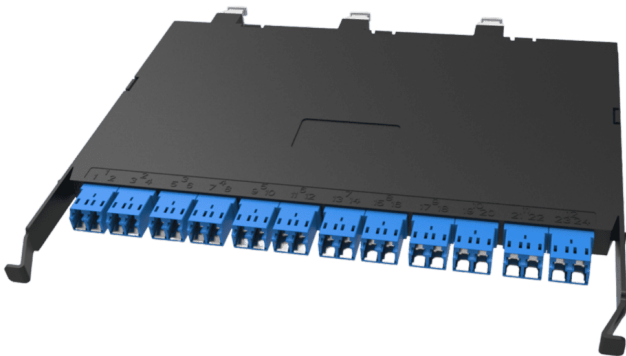




FotonShield MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, SM G.657A2



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.MP08x3LCU5A2A

Product Description

The **FotonShield MPO-LC Cassette** is a high-density fiber optic module designed for efficient connectivity, fast deployment, and exceptional optical performance in data centers, telecom 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 fiber breakout applications. Built with **bend-insensitive G.657A2 single-mode fiber**, this cassette ensures minimal signal loss, even in tight bends, making it ideal for 40G/100G/400G applications. The modular design, housed in **UL-94 V0 flame-retardant ABS + PC**, provides durability, impact resistance, and fire safety compliance, making it suitable for mission-critical network environments.

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.
- **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 3 Nos. of 8F MPO Low Loss - 8 x LC/UPC)
Fiber Type	Single Mode OS2 (G657A2)
LC Connector	Insertion Loss : ≤ 0.25 dB, Return Loss : UPC ≥ 55 dB
MPO (Elite) Connector	Insertion Loss : ≤ 0.35 dB, Return Loss : UPC ≥ 55 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.MPO8x3LCU5A2A	FotonShield MPO-LC Cassette, 24F with 3Nos. of 8F MPO (Male) Low Loss - 8 x LC/UPC, SM G.657A2
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