FotonShield MD MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM3

Product Part Number

N176.MPO12x2LCU2A

Product Description

The **FotonShield MD MPO-LC Cassette** is a high-density fiber breakout module designed to facilitate MPO-to-LC conversion for **OM3 multimode** fiber networks. Featuring **two 12F MPO (Male) low-loss connectors** at the rear and **12 LC/UPC duplex adapters** at the front, this cassette efficiently manages 24 fibers, ensuring high-speed, low-loss optical connectivity. Optimized for 10G, 40G, and 100G multimode applications, it supports high-bandwidth data transmission in enterprise networks, data centers, and telecom environments. The secure locking mechanism, fully enclosed fiber protection, and tool-free installation make it a reliable and scalable fiber management solution.

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
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Features

- Two 12F MPO (Male) Low-Loss Connectivity : Supports two 12-fiber MPO trunk cables, providing high-speed optical networking.
- Two 12 x LC/UPC Ports for Breakout : Provides a structured, high-density fiber termination solution with low insertion loss.
- Low-Loss MPO Interface : Utilizes precision-engineered ferrules to provide minimal insertion loss, enhancing signal integrity in multimode 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.

RoHS compliant

Material Specifications

Type	MD MPO-LC Cassette (with 2 Nos. of 12F MPO Low Loss - 12 x LC/UPC)
Fiber Type	Multimode OM3
LC Connector	Insertion Loss : ⩽0.25 dB, Return Loss : UPC ⩾35dB
MPO (Elite) Connector	Insertion Loss : ⩽0.35 dB, Return Loss : UPC ⩾35dB
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.MPO12x2LCU2A	FotonShield MD MPO-LC Cassette, 24F with 2Nos. of 12F MPO (Male) Low Loss - 12 x LC/UPC, MM OM3

RoHS compliant