



FotonShield LC Cassette, with 12 x LC/UPC Pigtails, MM OM5



Applicable Standards

- IEC 61754-20 (LC Connector)
- IEC 61755-3-1 (UPC End-Face)
- IEC 61300-3-35 (End-Face Cleanliness)
- RoHS and REACH

Product Part Number

N172.12LCU4

Product Description

The **FotonShield LC Cassette** is a high-performance fiber termination module designed for efficient splicing, patching, and fiber management in data centers, telecom networks, and enterprise environments.

Preloaded with 12 LC/UPC pigtails and 3 x LC/UPC Quad Adapters, this cassette ensures low insertion loss and excellent optical performance for high-speed multimode fiber applications, supporting 10G, 40G, 100G, and beyond Ethernet networks. Built with **OM5 multimode fiber**, this cassette supports wideband multimode transmission and enables higher speeds and longer distances than OM3 and OM4 fibers, making it ideal for high-bandwidth applications, including short-range optical interconnects and high-density fiber networks. The compact, modular design allows for easy integration into high-density rack-mounted systems, while the **UL-94 V0 flame-retardant ABS + PC housing** ensures durability and safety in challenging network environments.

Product Features

- Preloaded with 12 LC/UPC Pigtails : Enables quick and efficient splicing for seamless fiber connectivity.
- OM5 Multimode Fiber : Supports higher bandwidths and extended transmission distances for high-speed applications such as 100G+ Ethernet.
- Low-Loss Fiber Connectivity : Factory-polished LC/UPC connectors ensure high return loss and minimal insertion loss.
- UL-94 V0 Flame-Retardant ABS + PC Housing : Provides high durability, impact resistance, and fire safety compliance.
- Compact, Modular Design : Supports high-density fiber installations with easy rack integration.
- Compliant with Industry Standards : Ensures interoperability and reliable performance in mission-critical networks.





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Material Specifications

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|------------------|------------------------------------------------------------------|
| Type | LC Cassette with 12 LC/UPC Pigtails |
| Fiber Type | Multimode OM5 (50/125µm) |
| LC Connector | Insertion Loss: ≤0.25 dB, Return Loss: UPC ≥35dB |
| Adapter Type | Quad LC/UPC |
| Housing Material | ABS + PC (UL-94 V0 Flame-Retardant) |
| Application | Data Centers, Enterprise Networks, FTTH, Telecom, Fiber Splicing |

Environmental Specifications

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|-----------------------------|----------------|
| Operating Temperature Range | - 20°C to 70°C |
| Storage Temperature Range | - 20°C to 70°C |

Ordering Information

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| N172.12LCU4 | FotonShield LC Cassette, with 12 x LC/UPC Pigtails, MM OM5 (1 Set of 12 Colored Pigtails) |
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