

# OM5-LC-LC-D7M Datasheet



7m (23ft) 100Gb 50/125 OM5 LC to LC UPC Duplex Multimode Fiber Optic Patch Cable

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As the amount of traffic in data centers grows, so does the need for next-generation devices and fiber cables to support higher bandwidths. This OM5 duplex multimode 50/125 fiber patch cable is a wideband multimode fiber (WBMMF) patch cable that supports Short Wavelength Division Multiplexing (SWDM) to transmit multiple signals (wavelengths) on one fiber, increasing the bandwidth of a single fiber by at least a factor of four. The LC to LC multimode fiber patch cable provides cost-effective fiber solutions for increased bandwidth in 40/100Gb Ethernet applications.

The OM5 fiber cable meets ANSI/TIA-492AAAE and current IEEE 802.3ae requirements. It is completely backward compatible with existing OM3 and OM4 50/125 fiber networks and applications, potentially making your fiber optic cable installation easier. The OM5 fiber patch cable is manufactured with high-quality wideband multimode fiber (WBMMF) fiber and LC-LC ceramic connectors and is strictly tested for low insertion and return loss to ensure superior performance and quality. The cable jacket is LSZH (Low-Smoke, Zero-Halogen) flame retardant, to ensure minimal smoke, toxicity, and corrosion. It is ideal for 40G QSFP+ and 100G QSFP28 transceivers connection.

## Features

- Low insertion loss
- High back reflection loss
- Rated OM5 to offer a wideband 50/125 multimode fiber solution
- Provides an upgrade path from 40 Gbps to 100 Gbps and beyond
- Backward compatible with OM3 and OM4 applications
- Low-Smoke, Zero Halogen (LSZH) green jacket

- The ideal solution for high-speed data transmission
- 100% inspected for optical characteristics before shipment

## Specifications

- Fiber Type: 50/125 $\mu$ m OM5 Multimode
- Fiber Count: Duplex (2-fiber)
- Connector Type: LC UPC to LC UPC
- Cable Length: 7m (23ft)
- Cable Diameter: 2.0 mm
- Insertion Loss:  $\leq 0.3$ dB
- Return Loss:  $\geq 30$ dB
- Repeatability:  $\leq 0.2$ dB
- Interchangeability:  $\leq 0.2$ dB
- Cable Jacket: PVC
- Environment
- Operating: -20°C to 70°C
- Storage: -40°C to 85°C
- Applications: 10/40/100 Gigabit Ethernet, Data Storage, Legacy LANs

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