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What is Multimode Fibre?

Multimode (MM)

OM1: With a core diameter of 62.5µm, OM1 fibre typically uses an LED light source and has an orange jacket. It supports data rates up to 1Gbps over distances of up to 300m, making it suitable for older, slower networks and legacy applications.

OM2: OM2 also has a core diameter of 50µm but offers improved bandwidth over OM1, supporting up to 1Gbps at lengths up to 600m. It's better suited for applications requiring higher data rates compared to OM1 and also typically comes with an orange jacket.

OM3: Designed for laser-optimised multimode fibre (LOMMF), OM3 has a 50µm core and supports 10Gbps data rates up to 300m. It's often used in data centres and enterprise networks for its higher performance over longer distances. OM3 fibre have an aqua jacket and are optimised for VCSEL (Vertical Cavity Surface Emitting Laser) light sources.

OM4: An enhanced version of OM3, OM4 fibre offers a 50µm core and supports data rates of up to 10Gbps at distances up to 550m and 100Gbps up to 150m. With improved bandwidth and lower attenuation, OM4 is suitable for high-speed networks and also comes with a violet or an aqua jacket.

OM5: The latest type of multimode fibre, OM5, is designed to support high-bandwidth applications over longer distances. It has a 50µm core and extends the capabilities of OM4, supporting higher wavelengths (up to 953nm) and is optimised for short-wavelength division multiplexing (SWDM), which allows multiple signals on the same fibre. OM5 fibre typically comes with a lime green jacket.



Multimode Leads & Pigtails



BFL-LCU-DX-OM4-1

1m LC/UPC Duplex OM4 Fibre Optic Cable

- LC/UPC duplex connectors
- OM4 offering extended bandwidth and future-proof networking
- High Performance: 10Gbps+ data rates
- VCSEL optimised, minimal signal loss
- Easy to install



BFL-LCU-DX-OM3-1

1m LC/UPC Duplex OM3 Fibre Optic Cable

- LC/UPC duplex connectors
- OM3 offering enhanced bandwidth
- Supports 10Gbps speeds
- VCSEL optimised, minimal signal loss
- Easy to install



BFL-LCU-OM3-1

1m LC/UPC OM3 Fibre Optic Cable

- LC/UPC connectors
- OM3 offering enhanced bandwidth
- Supports 10Gbps speeds
- VCSEL optimised, minimal signal loss
- Easy to install



BFP-LCU-OM3-1

1m LC/UPC OM3 Fibre Optic Pigtail

- LC/UPC connectors
- Easy splice, seamless network integration
- Supports 10 Gbps speeds
- VCSEL optimised, minimal signal loss
- Durable, flexible for easy routing



BFC-OM3-LCU-DX-F

Duplex LC/UPC OM3 Connector with Flange

- LC/UPC duplex connectors
- High-speed data transfer
- Sturdy flange for secure fit
- OM3 compatibility for efficiency



SFPs



BFMOD-MM-10G

10Gbps 2x LC to SFP/SFP+ Multimode Transceiver

- Dual LC connectors
- SFP/SFP+ module support
- 10Gbps data speed up to 300m
- Ideal for switches, routers, media converters
- Compact and versatile design



BFMOD-MM-1G

1.25Gbps 2x LC to SFP/SFP+ Multimode Transceiver

- Dual LC connectors
- SFP/SFP+ module support
- 1.25Gbps data speed up to 550m
- Ideal for switches, routers, media converters
- Compact and versatile design



1.25Gbps 2x LC to SFP/SFP+ Single-Mode Transceiver

- LC connectors
- SFP/SFP+ module support
- Digital diagnostics monitoring (DDM) support
- Multi-Source Agreement (MSA) compliant
- 1.25Gbps data speed up to 10km
- Ideal for switches, routers, media converters
- Compact and versatile design