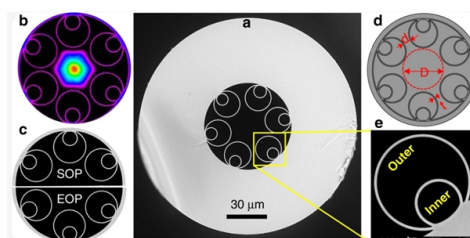


Fiber optic patch cords om1 and om2



Overview

Our 2.8mm mini-zip duplex fibre patch cables are available in singlemode (OS2) and multimode (OM1, OM2, OM3 & OM4).

Key Takeaways

OM1 and OM2 are multimode fiber optic patch cords designed for short-distance, high-speed network connections, with OM2 offering higher bandwidth and better performance than OM1.

- OM1: Features a 62.5/125 μm core/cladding diameter, typically with an orange jacket, and uses LED light sources. It is suitable for 100 Megabit Ethernet and short-distance 1 Gigabit Ethernet applications, supporting 10 Gigabit Ethernet up to 33 meters .

- OM2: Features a 50/125 μm core/cladding diameter, also with an orange jacket, offering improved bandwidth and supporting 1 Gigabit Ethernet more efficiently. It can handle 10 Gigabit Ethernet up to 82 meters .

Performance and Bandwidth

OM2 provides better modal bandwidth than OM1, which allows for higher data rates over slightly longer distances. Both are designed for short-haul networks, LANs, and private networks, typically within the same building . OM1 is more common in legacy networks, while OM2 is gradually being phased out in favor of OM3/OM4 for modern high-speed networks .

Applications

- OM1: Standard multimode networks, data centers with older infrastructure, and short-distance connections.

- OM2: Gigabit Ethernet, LANs, data centers, and fiber-to-the-home/building (FTTH/FTTB) applications where slightly higher performance is needed .

Connector Options and Construction

Both OM1 and OM2 patch cords are available in LC, SC, ST, and FC connectors, with UPC or APC polishing. They can be duplex or simplex, and jackets are typically PVC or LSZH for safety and durability. High-quality ceramic ferrules ensure low insertion loss and high return loss, providing reliable optical transmission .

Practical Considerations

- Cost: OM1 and OM2 are generally more affordable than single-mode fiber for short-distance links.

- Compatibility: OM1 may be used in older networks, while OM2 is better for slightly higher-speed applications.

- Upgrade Path: For modern networks requiring higher speeds or longer distances, OM3 or OM4 multimode fibers are recommended . In summary, OM1 is suitable for legacy, short-distance networks, while OM2 offers improved bandwidth and performance for Gigabit Ethernet, making it a better choice for slightly more demanding short-range applications. Both remain cost-effective solutions for local network connections and data center patching .

Article Content

Multimode Fiber Types: OM1 vs OM2 vs OM3 vs OM4 vs OM5

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber,

Fibre Patch Leads LC, ST, SC, FC, OM1, OM2, OM3, OM4, OS1/2

Our 2.8mm mini-zip duplex fibre patch cables are available in singlemode (OS2) and multimode (OM1, OM2, OM3 & OM4). Any

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OM2 LC LC fiber patch cable save more space for any places fiber patch cables are needed. □Wide Usage□OM2 LC-LC Fiber

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Standard Fiber Patch Cables Datasheet

Standard Fiber Patch Cables Applications Fiber optic patch cords are key components for efficient, low-loss optical

Patch Cord | Fiber Optical Cable | OM1, OM2, OM3

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Fibre Patch Leads LC, ST, SC, FC, OM1, OM2, OM3, OM4, OS1

Fibre patch leads available in singlemode (OS1) and multimode (OM1, OM2, OM3 & OM4). Any length available. LC, SC, ST, FC,

Multimode Fiber Patch Cords | OM1 / OM2 / OM3 / OM4 / OM5 Options

Our multimode fiber patch cords are crafted for superior optical performance and reliability in modern network environments—from

OM1 OM2 Fiber Optic Patch Cord

OM1 and OM2 multimode fiber patch cords provide cost-effective, high-speed data transmission for short-range applications. OM1

FIBER PATCH CABLES DATASHEET

OM1, OM2, OM3, OM4, OM5 or OS2 fiber types are available to meet the demand of Gigabit Ethernet, 10 Gigabit Ethernet and high

What is the difference between OM1 and OM2 fiber optic patch cables ...

OM1 and OM2 are two common types of multimode fiber. Understanding their differences can help network engineers

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