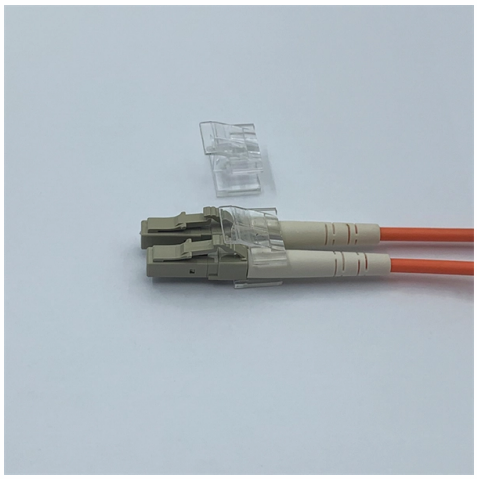
How to connect a 4-core fiber optic cable and its price



Overview

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Key Takeaways

A 4-core fiber optic cable can be connected using fusion splicing or connector kits, with prices ranging from $0.40 to $1.80 per meter depending on type and environment.Connecting a 4-Core Fiber Optic Cable

1. Preparation:

• Strip the outer jacket carefully to expose the four individual fibers.

• Clean each fiber with isopropyl alcohol to remove any debris.

• Identify fibers using the TIA-598-C color code: Blue, Orange, Green, Brown for the first four fibers . 2. Connection Methods:

• Fusion Splicing: This is the most reliable method, where fibers are permanently joined by fusing the glass ends using a fusion splicer. It minimizes signal loss and is ideal for long-distance or high-performance networks .

• Mechanical/Connector Splicing: Use fiber optic connector kits (LC, SC, or ST connectors) to attach connectors to the fiber ends. This method is faster but may have slightly higher insertion loss . 3. Using an Optical Distribution Frame (ODF):

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• Organize and secure fibers in an ODF panel to manage multiple connections and reduce stress on the fibers .

• Test the connections with an OTDR (Optical Time-Domain Reflectometer) to ensure minimal signal loss and proper alignment . 4. Safety Considerations:

• Wear gloves and safety glasses to protect against glass shards.

• Avoid bending fibers beyond their minimum bend radius to prevent damage .
Price of 4-Core Fiber Optic Cable
• Indoor, basic distribution cables: Around $0.40 per meter.

• Outdoor, armored, or ruggedized cables: Up to $1.80 per meter.

• 100-meter single-mode OS2 cable: Typically $60–$90 depending on customization and order volume .

• Prices vary based on fiber type (single-mode vs. multimode), jacket material (LSZH, PVC, armored), installation environment, and brand. Bulk orders often receive tiered discounts. Summary: Connecting a 4-core fiber optic cable requires careful preparation, proper splicing or connector installation, and testing to ensure optimal performance. Pricing depends on cable type, length, and environmental specifications, with reliable suppliers like OWIRE offering both indoor and outdoor variants with quality assurance .

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