

How much does a dual-core fiber optic patch cord typically cost

Article Overview

Dual-core fiber optic patch cords are generally more expensive than standard single-core or branching patch cords due to their dual-fiber design and higher optical efficiency.

Why Dual-Core Patch Cords Cost More

Dual-core patch cords contain two optically isolated fibers, allowing independent optical signals to be transmitted simultaneously. This design often requires dual ferrule connectors or specialized guiding pin/socket connectors, which increase manufacturing complexity and cost compared to single-core or 1x1 branching patch cords (Doric Lenses) . Using dual patch cords with a 1x2 Fiber-optic Rotary Joint is more optically efficient but also more expensive than simpler configurations .

Factors Influencing Price

- o Connector Type: LC, SC, FC, or dual ferrule connectors affect cost. Dual ferrule connectors are pricier due to precision alignment requirements .
- o Fiber Type: Single-mode (OS1/OS2) or multimode (OM3/OM4/OM5) fibers influence price. Single-mode fibers are cheaper per foot but require more expensive transceivers, while multimode fibers are costlier for high-speed applications .
- o Cable Length and Jacket: Longer cords and specialized jackets (armored, LSZH, plenum-rated) increase cost .
- o Testing and Quality Assurance: Factory-tested cords with insertion loss (IL) and return loss (RL) reports are more expensive but ensure reliability .
- o Application-Specific Requirements: For fiber photometry or lab setups, low-autofluorescence fibers and precise optical alignment add to the price .

Typical Pricing Context

While standard single-core patch cords can range from \$1 to \$6 per foot depending on fiber type and quality, dual-core cords are priced higher due to the additional fiber and connector complexity. Exact prices vary by manufacturer, length, and application, but expect a premium over standard patch cords, especially for high-precision or lab-grade applications .

Summary

Dual-core fiber optic patch cords are more expensive than single-core or branching cords because they provide higher optical efficiency, dual independent signal paths, and require specialized connectors. Costs are influenced by fiber type, connector type, length, jacket, and testing requirements. For applications demanding



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precise optical performance, the higher price is justified by improved signal integrity and reliability.

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Fiber patch cord is a type of fiber optic cable that is used to connect one device to another for the purpose

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Fiber Optic Patch Cords are available in both simplex and duplex types. Simplex patch cord consists of one fiber while duplex patch

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