

How much does a meter of dual-core single-mode optical fiber cost



AI Overview

The price of a single-mode dual-core (duplex) optical fiber typically ranges from \$0.30 to \$2.80 per meter, depending on cable type, brand, and protection features.

Price Range and Factors

- Standard indoor single-mode duplex cable:** Around \$0.30 to \$1.50 per meter, suitable for office or data center runs with simple routing and LSZH or PVC jackets.
- Outdoor or armored single-mode duplex cable:** Can cost \$1.20 to \$3.00 per meter, with armored or gel-filled variants for harsh environments or direct burial.
- Premium brand fiber (e.g., Corning):** May push the price toward the higher end of the range due to lower attenuation and higher quality glass.

Key Price Drivers

- Fiber Count:** Dual-core (2-core) cables are cheaper than higher-count cables like 12-core or 24-core.
- Cable Construction:** Loose-tube, tight-buffered, armored, or gel-filled designs affect material and production costs.
- Jacket Material:** LSZH jackets are common for indoor safety, while PE or UV-resistant jackets are used outdoors, increasing cost.
- Installation Environment:** Outdoor, aerial, or direct-burial installations require more robust protection, raising the per-meter price.
- Pre-Termination:** Factory-terminated cables cost more upfront but reduce on-site splicing labor, which can save overall project costs.

Practical Considerations

- For short indoor runs, expect to pay closer to \$0.30–\$1.50 per meter.
- For long outdoor or armored installations, budget \$1.50–\$3.00 per meter.
- Bulk orders or direct manufacturer purchases can reduce costs by 20–30% compared to retail.

In summary, a single-mode dual-core optical fiber is generally affordable for standard applications, but the final cost depends on cable protection, brand, and installation requirements.

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