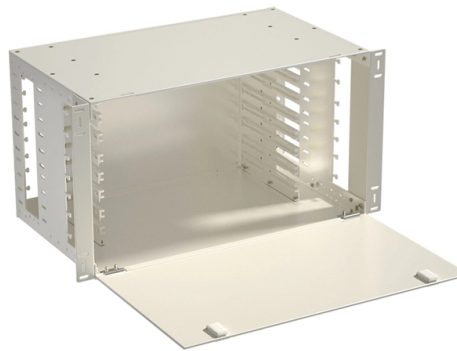


Price quote from manufacturers of 24-core optical fiber cables for communication



AI Overview

The price of a 24-core fiber optic cable typically ranges from \$1.50 to \$6.00 per meter, depending on type, construction, and application. Price Range and Factors The cost of a 24-core fiber optic cable varies significantly based on fiber type, cable construction, and intended use. Basic indoor multimode cables are on the lower end, around \$1.50–\$2.50 per meter, while armored outdoor single-mode or ribbon cables can reach \$5–\$6 per meter due to enhanced protection and long-distance performance requirements. Key factors influencing price include:

- Fiber Type:** Single-mode fibers (SMF) are more expensive than multimode fibers (MMF) because they support long-distance communication with low signal loss.
- Cable Construction:** Loose-tube, tight-buffered, armored, and aerial designs affect cost. Armored or outdoor-rated cables are pricier due to additional materials like steel or Kevlar for mechanical protection.
- Application Environment:** Outdoor, direct-burial, or high-voltage line installations require specialized cables like ADSS (All-Dielectric Self-Supporting) with water-blocking compounds and aramid reinforcement, which increases cost.
- Installation and Accessories:** Total cost of ownership includes splicing, connectors, transceivers, and expected lifespan, which can make a seemingly cheaper cable more expensive in the long run.

Typical Configurations

- Indoor Multimode:** Suitable for short-range, high-speed networks; lower cost.
- Outdoor Single-Mode:** Ideal for long-haul telecommunications; higher cost due to precision manufacturing.
- Ribbon Cables:** 24 fibers arranged in a flat ribbon for high-density installations; slightly higher cost due to splicing efficiency.
- ADSS Cables:** Lightweight, self-supporting for overhead po...

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Despite these variables, average market prices for 24 core fibre optic cables typically range from \$0.50 to \$1.50 per meter for standard single-mode loose tube cables, depending on

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