

How much does each meter of optical fiber cable cost



Article Overview

The cost of optical fiber cable ranges from approximately \$0.02 to \$6 per meter, depending on fiber type, strand count, construction, and environmental rating.

General Price Ranges

- Simplex/Duplex Indoor Cable: \$0.02 – \$0.30 per meter, suitable for basic indoor installations .
- Single-mode Fiber (OS1/OS2): \$0.10 – \$2.80 per meter, with lower-cost generic glass and higher-cost premium brands like Corning .
- Multimode Fiber (OM1/OM2/OM3/OM4): \$0.10 – \$0.60 per meter for standard indoor/outdoor cables; high-performance multimode for data centers can reach \$1.50 – \$6 per meter .
- Armored Cables (Steel Tape/FRP): \$0.30 – \$6.50 per meter, designed for harsh environments, direct burial, or protection against rodents and mechanical damage .
- Aerial/Self-Supporting Cables: \$0.40 – \$1.50 per meter, typically used for overhead installations .

Factors Affecting Cost

- Fiber Count: Higher strand counts increase cost proportionally. For example, a 2-core cable is much cheaper than a 24-core or 96-core cable .
- Cable Construction: Loose tube, tight-buffered, armored, or non-armored designs affect material and production costs. Armored cables add 20–50% to the base price .
- Jacket Material and Environmental Rating: Indoor cables with PVC or LSZH jackets...

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Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and

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Fiber Optic Network Construction: Process and Build Costs

However, newer fiber optic cables are being built with 432, 864, and 1,728 fiber strands in each cable,

Contact Us

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