

Price Comparison of Corrugated Cable Fiber IK10



AI Overview

Corrugated armored fiber optic cables typically range from \$0.50 to \$5 per foot depending on fiber type, strand count, and construction, with singlemode generally less expensive than multimode.

Pricing Overview

Fiber Type and Count: Singlemode fiber: \$0.10–\$0.50 per foot for standard cables; 12-strand cables around \$0.50 per foot, 24-strand up to \$1.00 per foot. Multimode fiber: \$0.30–\$1.00 per foot; higher strand counts proportionally increase cost.

Armored Construction: Corrugated steel tape (CST) or interlocking armor (ILA) adds durability for harsh environments, rodent protection, and direct burial applications. Prices for armored cables range from \$0.50 to \$5 per foot, depending on fiber count and environmental rating.

IK10-rated cables, designed for high impact resistance, fall within the higher end of this range due to reinforced construction.

Material Considerations: Glass fiber cores are standard for high-speed, long-distance transmission and cost more than plastic optical fiber alternatives. LSZH jackets (Low Smoke Zero Halogen) increase cost by 25–40% over standard PVC due to safety and environmental compliance.

Installation and Termination Costs: Bulk armored cables are cheaper per foot but require on-site termination, which can add significant labor costs. Pre-terminated assemblies reduce field labor by up to 70% but carry a higher upfront cost.

Practical Price Comparison Example

Cable Type	Fiber Count	Construction	Approx. Price per Foot
Singlemode, 12-strand	Tight-buffered	Standard	\$0.50
Singlemode, 24-strand	Tight-buffered	Armored CST	\$1.50–\$2.50
Multimode, 24-strand	Tight-buffered	Armored ILA	\$2.00–\$3.50
Multimode, 48-strand	Loose-tube	Armored CST, IK10	\$3.50–\$5.00

Key Takeaways: Singlemode cables are generally less expensive than multimode for the same strand count. Armored and IK10-rated cables command higher prices due to e...

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