

How much does an 8-core power fiber optic cable cost



Article Overview

An 8-core fiber optic cable typically costs between \$0.50 and \$3.00 per foot, depending on fiber type, construction, and whether it is pre-terminated.

Price Breakdown

- **Fiber Type:** Single-mode (OS2) 8-core cables generally cost \$0.30 to \$1.50 per foot, while multimode (OM3/OM4) 8-core cables range from \$1.50 to \$3.00 per foot due to manufacturing complexity and higher performance standards .
- **Cable Construction:** Armored cables or those rated for outdoor/direct burial applications can add \$0.60-\$1.20 per foot to the base price . Indoor plenum-rated cables are slightly cheaper, typically \$0.80-\$1.70 per foot .
- **Pre-Terminated Assemblies:** Pre-terminated 8-core fiber assemblies, which include connectors, are more expensive than bulk cable, often 20-30% higher, but reduce labor costs for installation .

Installation Considerations

If you are including installation, labor can significantly increase the total cost. Typical U.S. installation rates range from \$0.60 to \$3.00 per foot, depending on terrain, conduit requirements, and splicing complexity . For example, a 1,000-foot indoor 8-core single-mode run may cost around \$2,650-\$3,100 total, including cable, labor, and accessories

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