

Price of low-loss fiber optic cable for Paraguayan surveillance



AI Overview

Low-loss fiber optic cable in Paraguay typically costs between \$0.50 and \$6 per foot, depending on type, strand count, and installation complexity. **Material Costs** For high-performance, low-loss fiber suitable for surveillance or long-distance transmission, prices vary based on fiber type and strand count. Single-mode fiber, which is standard for low-loss applications, generally costs \$0.10 to \$0.50 per foot for the cable itself, while multimode fiber ranges from \$0.30 to \$1.00 per foot. Higher strand counts or armored cables for outdoor or harsh environments can increase costs to \$5–\$6 per foot. Submarine-grade or ultra-low-loss fibers, such as those compliant with ITU-T G.654.C/D standards, are more expensive due to their large effective area and specialized coatings. **Local Market and Suppliers** Paraguay has a robust network of 16 fiber optic cable suppliers, capable of serving both domestic and international buyers. While exact retail prices in Paraguay are not publicly listed, the average export price of optical fiber cables in 2025 provides a benchmark, though it excludes logistics and retail margins. Local procurement may also include additional costs for delivery, customs, and installation. **Installation Considerations** Installation costs can significantly affect the total price. For outdoor or underground runs, trenching, splicing, and termination labor can add \$1 to \$50 per foot, depending on complexity and environmental conditions. Indoor or aerial installations are generally less expensive. Pre-terminated assemblies and patch cables incur additional costs due to factory termination. **Practical Estimate** For a surveillance network in Paraguay, a realistic budget for low-loss single-mode fiber would be: **Material only:** \$0.50–\$2 per foot for standard single-mode fiber, \$2–\$6 per foot for armored or high-strand-count cables. **Installed cost:** \$1–\$12 per foot, depending on trenching, splicing, and enviro...

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