Customized price of composite optical cables

Overview

Configure, build and buy your custom fiber optic cable assembly online at buy.customcable . Custom Cable, Inc.

Key Takeaways

Composite optical cable prices vary widely, ranging from $0.09 to $6 per foot depending on type, strand count, construction, and bulk purchasing options.General Pricing Overview
• Wholesale bulk purchases of fiber-optic cable materials typically cost $0.09 to $1.52 per foot, while retail prices range from $1 to $6 per foot depending on specifications and strand count .

• 1-core FTTH drop cables are around $0.13 per foot, whereas high-capacity 288-strand backbone cables can reach $6 per foot or more .

• Pre-terminated assemblies and patch cables incur higher costs due to factory termination and connector types .
Pricing by Cable Type
• Single-mode fiber composite cables: Ideal for long-distance transmission, generally $0.10 to $0.50 per foot for the cable itself .

• Multi-mode fiber composite cables: Suited for short-range, high-bandwidth applications, typically $0.30 to $1.00 per foot .

• Hybrid optical fiber cables: Combine single-mode and multi-mode fibers, offering flexibility; pricing depends on strand count and configuration .

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• Low-voltage power composite cables: Designed for powering devices alongside data transmission; prices vary based on voltage rating and insulation .
Factors Affecting Price
• Strand count: Higher strand counts increase cost proportionally (e.g., 12-strand cable ~$0.50/ft, 24-strand ~$1.00/ft), .

• Construction and rating: Indoor riser-rated cables are cheaper than plenum-rated or armored cables suitable for harsh environments ($0.50–$5 per foot), .

• Core material: Glass fiber cores are more expensive than plastic optical fiber but provide superior performance .

• Bulk and OEM orders: Ordering in large quantities or specifying custom OEM solutions can reduce per-unit costs significantly .
Applications and Considerations

Composite optical cables are used in telecommunications, broadcasting, smart grids, industrial automation, and renewable energy systems . When comparing suppliers, consider performance metrics, durability, environmental resistance, and warranty in addition to price . For precise procurement, it is recommended to request a tailored quote from manufacturers or distributors, as prices fluctuate based on specifications, order volume, and market trends .

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Types of fiber cables that can be customized include duplex custom fiber patch cables, MPO/MTP custom fiber cables, armored

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