

Customized price of composite optical cables



Overview

Configure, build and buy your custom fiber optic cable assembly online at [buy.customcable](https://buy.customcable.com) . 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 .

- 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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Custom Fiber Optic Cables in Less Than 3 Weeks

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

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