

Price of 288-core bundled optical cable

Article Overview

A 288-core optical fiber cable typically costs around \$6 per foot, with prices varying based on type, construction, and application.

Pricing Overview

High-density 288-core optical cables are used for backbone and data center applications, supporting high-speed, long-distance data transmission. According to industry sources, bulk 288-core fiber cables can cost \$6 per foot or more, depending on specifications and environmental ratings (indoor, outdoor, armored) (Thenetworkinstallers.com) . Pre-terminated assemblies or patch cables are more expensive due to factory termination and connector types.

Factors Affecting Cost

- o Fiber Type: Singlemode fibers (G.652.D, G.657.A1) are standard for long-distance and high-speed applications, while multimode fibers are generally cheaper but suited for shorter distances (Thenetworkinstallers.com) .
- o Cable Construction:
 - o Indoor riser-rated cables are less expensive than plenum-rated cables.
 - o Armored or gel-free outdoor cables designed for aerial, duct, or direct-buried applications cost more due to added durability and environmental protection (Corning, CommScope) .
- o Ribbonization and Termination: Ribbonized cables with 12-fiber MPO connectors simplify mass fusion splicing but may slightly increase cost (Panduit) .
- o Environmental Rating: UV-resistant jackets, water-swallowable tapes, and gel-free designs for outdoor use add to the price (Corning) .

Typical Applications

- o Indoor Data Centers: LSZH, flame-rated 288-core ribbon cables for high-density distribution (Panduit) .
- o Outdoor Backbones: Gel-free, UV-resistant, single-tube cables for aerial, duct, or direct-buried installations (Corning, CommScope) .
- o Enterprise Networks: ADSS 288-core cables for telecom and industrial connectivity, supporting high-speed protocols and minimal signal loss (Alibaba) .

Summary

For budgeting purposes, expect \$6 per foot as a baseline for 288-core optical cables, with variations based on fiber type, indoor/outdoor rating, armored construction, and pre-termination. Bulk purchases may reduce



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per-foot cost, while specialized cables for harsh environments or pre-terminated assemblies will increase it. Proper selection should consider installation environment, connector compatibility, and long-term durability.

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Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus

While a 288 core fiber optic cable may have a higher upfront cost than lower-core-count alternatives, the long-term

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