288 Communication Fiber Optic Cable Equipment Room Price



Overview

This rugged enclosure protects up to 288 single-fiber or 48 ribbon splices, from as many as 12 cables.

Key Takeaways

A 288-core fiber optic cable can cost around $6 per foot, while outdoor fiber distribution cabinets for 288 fibers range from several hundred to a few thousand dollars depending on features and materials. 288-Core Fiber Optic Cable PricingA 288-count optical fiber cable is typically used for building backbones or high-density telecom networks. Pricing depends on fiber type, construction, and whether it is pre-terminated: Cost per foot: Approximately $6 or more per foot for single-mode 288-core cables suitable for long-distance, high-speed transmission.

Factors affecting cost: Fiber type: Single-mode fibers are standard for enterprise and telecom applications, while multimode fibers are slightly cheaper. Cable construction: Armored cables for outdoor or harsh environments cost more, ranging from $0. 50 to $5 per foot for lower-count cables, with higher-count cables like 288-core being at the upper end.

Pre-terminated assemblies: Factory-terminated cables with connectors (SC, FC, ST) increase the price due to labor and precision requirements. 288-Core Fiber Distribution CabinetsA fiber distribution cabinet (FDC) or cross-connect cabinet is used to house, splice, and manage fiber optic cables. For 288-core setups: Capacity: Cabinets can support up to 288 fibers, with multiple trays (12–48 ports per tray) and adapters (SC or FC) for splicing and patching.

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Materials: Options include SMC (Sheet Molding Compound) or stainless steel, with dustproof and waterproof designs (IP65 rating) for outdoor deployment. Features: Built-in splice trays and patch panelsCable management and routing to maintain proper bending radiusGrounding and secure locking mechanismsVentilation for heat dissipation Price range: Depending on material, size, and features, a 288-core outdoor cabinet can cost from several hundred to a few thousand dollars per unit.

Summary

For a 288-core fiber optic deployment, expect: Cable cost: ~$6 per foot for single-mode, high-density outdoor cable. Cabinet cost: Several hundred to a few thousand dollars per 288-core outdoor distribution cabinet, depending on material, capacity, and additional features. When budgeting, also consider installation, connectors, patch cords, and labor, which can significantly affect the total project cost.

Article Content

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288 Cores Fiber Optic Cable

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Opti-Core 144 and 288-Fibre Indoor Ribbon Cables, LSZH and

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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