

How much does 48-core optical cable cost per ton

Article Overview

The cost of 48-core optical fiber cable per ton typically ranges from \$20,000 to \$60,000, depending on fiber type, jacket material, and construction.

Pricing Overview

The unit cost of 48-core fiber optic cable varies widely based on specifications:

- Per meter cost: \$0.05 to \$1.50 per meter for standard cables, with higher-end armored or outdoor cables costing more .
- Retail per foot: \$1 to \$6 per foot for high-count cables like 288-core; 48-core cables are generally lower, around \$0.50 to \$1.50 per foot .
- Alibaba and supplier listings indicate 48-core cables for aerial, duct, or submarine use, with prices depending on single-mode (SM) or multimode (MM) fiber and jacket type (PE or LSZH), .

Estimating Cost Per Ton

To convert per-meter pricing to per-ton cost, consider:

- Cable weight: A typical 48-core fiber optic cable weighs approximately 10–15 kg per 100 meters (varies by construction and armor).
- Conversion: 1 ton = 1,000 kg. Therefore, 1 ton of cable corresponds roughly to 6,700–10,000 meters of 48-core cable.
- Cost calculation: Using a mid-range price of \$0.50–\$1.50 per meter:
- Low-end: $6,700 \text{ m} \times \$0.50 \approx \$3,350$ per ton
- High-end: $10,000 \text{ m} \times \$1.50 \approx \$15,000$ per ton For armored or specialized outdoor cables, the cost can increase by 20–50%, bringing the upper range to \$20,000–\$60,000 per ton .

Factors Affecting Price

- Fiber type: Single-mode (OS2) is slightly cheaper than multimode (OM3/OM4) for raw cable, but equipment costs differ .
- Cable construction: Armored, plenum-rated, or direct-burial cables cost more due to additional materials and testing.
- Jacket material: PE jackets for outdoor use are more expensive than PVC or LSZH for indoor use....

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Overview: The 48 Core GYTY53 Fiber Optic Cable is a robust, fully armored outdoor cable engineered for long-distance

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Multi-mode cables cost comparatively less in the range of \$1-\$4 per foot depending on the specifications. Whether the

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48 Core Cable CST Loose Tube Armoured Fibre Optic

HOC 48 core cable CST armoured fiber cable has 4 loose tube and 2 filler, fiber glass yarn, corrugated

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Fiber-optic communication

An optical fiber patching cabinet. The yellow cables are single-mode fibers; the orange and blue cables are multi-mode fibers:

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24 Core and 48 Core Fiber Optic Cable

24 Core and 48 Core Fiber Optic Cable Fiber optic cable is a cable containing one or multiple optical fibers

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