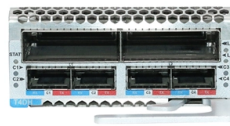


How much does an 8-core single-mode optical cable cost per meter European manufacturers



Overview

OS2 Single Mode Tight Buffered Fibre Optic Cable LSZH 8 Core, I've relied on high-priced cables from well-known brands in the past and didn't think I could.

Key Takeaways

An 8-core single-mode optical fiber cable typically costs between €0.40 and €1.20 per meter, depending on construction and environmental rating. Price Range and Factors

For single-mode (OS2) fiber cables, the raw cable cost is generally lower than multimode cables, with prices for an 8-core configuration falling in the €0.40–€1.20 per meter range for standard indoor or outdoor-rated cables. Factors influencing the price include:

- Cable construction: Tight-buffered, loose-tube, or armored designs can increase costs by 20–50%. Armored cables are recommended for harsh environments or direct burial.
- Jacket material and rating: LSZH (low-smoke, zero-halogen) or PE jackets for outdoor use affect pricing. Indoor-rated cables are cheaper than outdoor or UV-resistant variants.
- Pre-termination: Factory-terminated cables with connectors (LC, SC, MPO) cost more than bulk cable due to labor and testing.

- Bulk purchasing: Buying in large quantities reduces per-meter cost, while small orders or retail purchases are at the higher end of the range .

Typical Specifications

- Core count: 8 cores (fibers)
- Fiber type: Single-mode OS2, 9 µm core diameter
- Transmission distance: Up to 40 km at 10 Gbps without repeaters
- Bandwidth: 500 MHz·km at 1310 nm
- Applications: Long-haul, high-speed networks, FTTH, and enterprise backbones

Summary

For European procurement, expect €0.40–€1.20 per meter for an 8-core single-mode optical cable, with higher prices for armored, outdoor-rated, or pre-terminated versions. When budgeting, also consider the cost of connectors, transceivers, and installation, which can significantly increase the total project cost .

Article Content

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