

How much does a 10 Gigabit direct fiber optic cable cost



AI Overview

10 Gigabit direct fiber optic cables typically range from \$0.30 to \$1.00 per foot for multimode fiber, with single-mode fiber costing \$0.10 to \$0.50 per foot, while SFP+ direct attach cables range from \$20 to \$150 depending on length and type.

Fiber Optic Cable Pricing

Multimode Fiber (OM3/OM4): \$0.30 to \$1.00 per foot. OM3 and OM4 are standard for high-speed data center and enterprise LAN environments, supporting 10GbE over distances up to 300–400 meters.

Single-Mode Fiber (OS1/OS2): \$0.10 to \$0.50 per foot. Single-mode fiber is ideal for long-distance applications, supporting 40–100 km without amplification.

Armored or Plenum-Rated Cables: \$0.50 to \$5 per foot. Armored cables are suitable for harsh environments or direct burial, while plenum-rated cables are designed for air-handling spaces.

Bulk Purchases: Buying in bulk can reduce per-foot costs by 20–40% compared to retail quantities.

SFP+ Direct Attach Cables (DAC)

Short-Range Passive DACs (1–7 meters): Typically \$20–\$50 per cable. These are low-power, low-latency twin-ax cables suitable for connecting switches and servers within racks.

Active DACs (up to 15 meters): \$50–\$150 per cable. Active cables include signal equalization for longer distances and maintain 10GbE performance.

Ubiquiti 10GbE SFP+ DAC Examples: 0.5m: ~\$25 1m: ~\$30–\$35 3m: ~\$50

Factors Affecting Price

Cable Length: Longer cables increase cost proportionally.

Fiber Type: Single-mode is cheaper per foot but requires more expensive transceivers; multimode is more expensive per foot but uses lower-cost optics.

Construction: Armored, plenum-rated, or outdoor-rated cables cost more.

Compatibility: Certified SFP+ modules or DACs from Cisco, Ubiquiti, or Amphenol may carry a premium for guaranteed interoperability. For enterprise or data center deployments, multimode OM3/OM4 fiber with SFP+ modules is the mos...

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