

Price of composite optical cable for communication



Overview

Composite Cables Power+ composite cables are ideal for long distance PTZ camera installations, Distributed Antenna Systems (DAS), and Passive Hybrid Fiber.

Key Takeaways

Composite optical cables for communication typically range from \$2 to \$15 per meter, depending on type, specifications, and supplier.

Overview of Composite Optical Cables

Composite optical cables combine fiber optic strands with electrical conductors, allowing simultaneous transmission of data and power over a single cable. They are widely used in IP surveillance, video conferencing, industrial automation, and remote device operation, offering advantages such as high bandwidth, low signal attenuation, EMI/RFI resistance, and long-distance transmission . Types include:

- Optic-electric composite cables: transmit AC/DC power and data simultaneously, often priced per meter at \$2-\$15, depending on fiber count, conductor size, and certification .
- OPGW (Optical Ground Wire): used in power utilities for dual purposes—grounding and data transmission. These are more specialized and higher in cost due to stainless steel tubes, aluminium sheathing, and high tensile strength .

- Industrial composite cables: designed for harsh environments, such as nuclear inspection robots or coolant channels, with multiple conductors and coaxial components. Prices vary based on mechanical and environmental specifications .

Factors Affecting Price

- Cable length and fiber count: More fibers or longer runs increase cost.
- Conductor type and gauge: Copper or aluminium conductors, shielding, and braid layers affect pricing.
- Environmental resistance: Radiation, temperature, and chemical resistance increase manufacturing costs.
- Pre-termination and certification: Factory-terminated cables with connectors and compliance with CE, UL, or ISO standards are more expensive .

Practical Considerations

- For short-distance installations like IP cameras or local networks, optic-electric composite cables are cost-effective and simplify deployment.
- For utility-scale or long-span applications, OPGW composite cables are preferred despite higher costs due to durability and dual functionality.
- Bulk purchases or long-term contracts can reduce per-meter costs.

In summary, expect composite optical cable prices to start around \$2 per meter for basic optic-electric types and rise to \$15 or more per meter for specialized or high-performance cables, with final pricing influenced by length, fiber count, environmental resistance, and certifications .

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Power+ composite cables utilize fiber optic strands to provide the link to the network and a pair of stranded copper conductors to

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Buyers typically pay for fiber optic cable by length, fiber type, and installation complexity. Main cost drivers include

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