

Price of Explosion-proof Optical Cable for Smart Buildings Underground



Overview

Shop 48 Fiber Metallic Armored OFC cable at best price (Optical Fiber Cable) for high-speed, long-distance data transmission.

Key Takeaways

Explosion-proof underground optical cables for smart buildings typically cost around \$9 per meter, depending on specifications and certifications.

Explosion-proof optical cables are designed for hazardous environments, including underground installations, where flammable gases, dust, or extreme temperatures may be present. They feature robust armor layers, flame-retardant insulation, and flexible conductors to ensure safety and durability in harsh conditions . For underground smart building applications, these cables often comply with ATEX, IECEx, or NEC/UL standards, ensuring safe operation in Class I/II/III or Zone 0-2 areas .

Pricing

- Typical cost: Around \$9 per meter for standard underground, flame-retardant, explosion-proof fiber optic cables .



- Factors affecting price: Cable length, number of cores, armor type, insulation material (PTFE, silicone, or mica), and certification requirements. Custom configurations may increase the price.

Key Features for Underground Smart Buildings

- Mechanical protection: Steel wire or tape armor prevents damage and spark propagation.
- Environmental resistance: Heat, cold, moisture, and chemical resistance suitable for underground conditions.
- Certification compliance: ATEX, IECEx, or NEC/UL ensures legal and safety compliance.
- Flame retardancy: Reduces fire risk in confined underground spaces.

Procurement Tips

- Verify that the cable meets the required regional safety certifications for your installation zone.
- Consider customized cores or structures if your smart building requires higher bandwidth or specific fiber counts.
- Contact suppliers directly for bulk pricing, shipping, and technical support, as prices may vary with order volume and specifications . In summary, for underground smart building projects, expect to pay approximately \$9 per meter for explosion-proof optical cables, with the final cost influenced by cable type, certification, and customization options.

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