

Price of fiber optic cables for smart buildings in Ireland

Article Overview

Irish-made fiber optic cables for smart buildings typically range from EUR1.50 to EUR5 per meter, depending on type, core count, and armoring.

Pricing Overview

The cost of fiber optic cables in Ireland varies based on several factors:

- o **Cable Type:** Single-mode cables are generally more expensive than multi-mode due to longer-distance performance and lower attenuation. Multi-mode cables are suitable for shorter runs within smart buildings and are more cost-effective.
- o **Core Count:** Cables with higher fiber counts (e.g., 12, 24, or 48 cores) cost more per meter than simplex or duplex cables.
- o **Sheathing and Armoring:** LSZH (Low Smoke Zero Halogen) jackets, steel wire armoring, or UV-resistant outdoor sheaths increase the price. Armored cables for harsh environments or direct burial installations are at the higher end of the range.
- o **Length and Custom Cuts:** Suppliers like Cablemonkey offer cut-to-length options, which can slightly increase per-meter cost for small orders but reduce waste for building installations .

Supplier Options in Ireland

- o **Wood Communications:** Irish-owned distributor offering a wide range of fiber optic cables for data centers, telecoms, and smart building networks. They provide expert guidance and competitive pricing for bulk orders .
- o **Satcity.ie:** Supplies single-mode, multi-mode, patch, backbone, indoor, and outdoor fiber cables. Prices are competitive, and they offer nationwide delivery and professional installation support .
- o **Cablemonkey:** Offers bulk fiber cables including tight-buffered and loose-tube types, suitable for indoor and outdoor smart building applications. They provide LSZH and armored options .
- o **Screwfix.ie and PC Systems:** Provide standard fiber optic cables for commercial and office networks, with online ordering and collection options .

Indicative Price Range

- o **Simplex or duplex indoor cables:** EUR1.50-EUR2.50 per meter
 - o **Multi-core indoor/outdoor LSZH cables:** EUR2.50-EUR4 per meter
 - o **Armored or direct burial cables:** EUR4-EUR5 per meter
- These prices are indicative and may vary based on supplier, order volume, and specific technical requirements. For smart building projects, it is recommended to contact suppliers directly for quotes tailored to your building's network design, fiber count, and installation

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environment.

Additional Considerations

- o Termination Kits and Patch Panels: Many suppliers also provide compatible termination kits, enclosures, and patch panels, which are essential for smart building network deployment.
- o Future-Proofing: Choosing higher-quality single-mode cables may increase initial cost but ensures long-term performance for high-speed data and IoT integration. By selecting Irish suppliers, you benefit from local support, faster delivery, and compliance with EU standards, which is particularly important for smart building infrastructure.

The remit of Ireland's National Broadband Plan (NBP) is to ensure that no town, village, or rural community is left behind in the rollout

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