

Canadian Indoor Fiber Optic Cable



Overview

Under the Northern Lights Fiber brand, we build, operate, and service high-speed fiber networks in rural Canadian communities.

Key Takeaways

Indoor fiber optic cables in Canada are available from multiple manufacturers and suppliers, designed for LAN, data networks, and telecommunication applications with compliance to flame and safety standards. Overview of Indoor Fiber Optic Cables in Canada

Indoor fiber optic cables are primarily used for LAN networks, data centers, and telecommunication interconnections. They are designed to meet fire safety and flame rating requirements, which vary depending on the installation environment. Common types include riser cables for vertical runs between floors and plenum cables for air-handling spaces, with plenum-rated cables offering higher flame and smoke resistance .

Key Canadian Manufacturers and Suppliers

- HELUKABEL: Offers a wide range of optical fiber cables, connectors, and accessories, manufactured with high-quality raw materials and tested for reliability .
- ECS Global: Provides end-to-end structured cabling systems, including optical fiber cables and fiber termination boxes, certified by UL, Intertek, and Delta .
- Cablek: Specializes in fiber optic and copper cable components, with ISO9001-certified manufacturing and CSA/UL-certified products .

- Infinite Cables: Supplies fiber optic cables, network cables, and custom assemblies, with comprehensive quality control .
- Techlogiks: Offers fiber cables, Ethernet cables, and server racks, with ISO9001 certification and international compliance .
- Cablify: Authorized reseller of Belkin, Tripp Lite, Startech, and C2G, providing custom fiber patch cables, singlemode and multimode options, and installation services across Canada .
- Hexatronic: Provides indoor and indoor/outdoor cables for telecommunication and LAN networks, fully dielectric and compliant with IEC60332 and CPR fire regulations .
- Corning: Offers indoor/outdoor cables that meet flame rating requirements, eliminating the need for transition splices when routing outdoor cables indoors .

Cable Types and Specifications

- Singlemode (OS2): Low-water-peak fiber for long-distance transmission, suitable for campus backbones and inter-building links .
- Multimode (OM3/OM4): Supports high-speed connections (10 Gbps) up to 300 meters, ideal for server rooms and data centers .
- Jacket Types: Options include yellow (singlemode), aqua (multimode), and LSZH (low smoke zero halogen) for safety in enclosed spaces .
- Connectors: LC, SC, FC, and ST connectors are commonly available, with custom lengths and configurations possible .

Installation Considerations

- Fire Safety: Ensure cables meet local flame and smoke regulations (plenum vs riser ratings).
- Dielectric Cables: Non-metallic cables reduce interference and are suitable for sensitive environments .
- Testing and Termination: Professional installation may include fusion splicing, OTDR testing, and certified terminations to ensure network reliability .

Purchasing and Delivery

Canadian suppliers like Cablify, Mouser Canada, and Hexatronic offer same-week dispatch for standard cables and custom assemblies within 3–7 business days. Free delivery is often available for orders over a certain amount, and suppliers ship across major cities including Toronto, Vancouver, Montreal, Calgary, and Ottawa . Indoor fiber optic cables in Canada are widely available, with options for custom lengths, connector types, and compliance with safety standards, making them suitable for commercial, educational, and government network installations.

Article Content

Guide to the Canadian Electrical Code, Part 1 – A Road Map: Section 56

Rule 56-104 requires that optical fiber cables installed, within buildings, be approved types as listed in Table 19 and

WESCO Canada

Fiber Optic Indoor/Outdoor Cable: Type - Indoor Outdoor Cable; Construction - Tight Buffer; Fiber Type - Multimode, 50 um (OM3);

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Communities — Canadian Fiber Optics

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