

Canada Long-Distance Cable Tray Dedicated Line



Overview

We manufacture CSA approved Class C, D and E cable tray and fittings with standard 3m, 5m and 6m lengths.

Key Takeaways

Long-distance dedicated cable lines in Canada typically use CSA/UL-certified ladder, ventilated, or solid cable trays designed for specific cable types and load requirements. Cable Tray Types and Materials

For long-distance dedicated lines, the choice of tray depends on the type of cable and environmental conditions:

- Ladder Tray: Ideal for large, rigid cables such as power or telephone/control cables. Provides maximum ventilation and easy heat dissipation, reducing derating issues over long runs (Unitray Systems Inc.), .
 - Ventilated Tray: Suitable for smaller, flexible cables like control or signal cables. Prevents sagging and allows airflow while offering moderate protection .
 - Solid (Non-Ventilated) Tray: Offers maximum protection for sensitive or armored cables, often used in industrial or harsh environments . Materials commonly used in Canada include aluminum, steel, and fiberglass, each meeting CSA, UL, and NEMA standards. Aluminum is lightweight and corrosion-resistant, steel provides high strength for heavy loads, and fiberglass is ideal for corrosive environments .
- Sizing and Load Considerations

Cable tray sizing for long-distance dedicated lines must account for:

- Cable type and quantity: Power, control, or telecom cables have different spacing and ampacity requirements.
- Tray width and depth: Determined using CSA/CEC rules (Rule 12-2200 to 12-2210). Ladder tray rung spacing typically ranges from 150 mm (6") to 300 mm (12") depending on cable rigidity .
- Load capacity: Average load is around 75 kg/m (165 lbs/ft), but this varies with tray type and material .
- Environmental factors: Snow, ice, and temperature can affect tray selection and spacing . Software tools like Cooper B-Line's Canadian Cable Tray Sizing Program can calculate tray width and depth based on cable type, quantity, and environmental loads, ensuring compliance with CEC rules .

Installation and Best Practices

- Dedicated lines should be separated from other services to prevent interference and allow easier maintenance.
- Continuous support is critical for long runs to prevent sagging, especially for flexible control cables.
- Future growth: Consider extra tray width for additional cables or upgrades.
- Covers and accessories: Use covers to protect against dust, moisture, or mechanical damage, particularly for outdoor or industrial installations .

Suppliers in Canada

Several Canadian suppliers provide CSA/UL-certified cable trays suitable for long-distance dedicated lines:

- Unitray Systems Inc. – Edmonton-based, ladder and ventilated trays with high-quality welding and load ratings .
- MP Husky – Offers fiberglass, steel, and aluminum trays for industrial and commercial applications .
- Superior Tray Systems Inc. – Custom-designed trays for power, control, and telecom cables, including wire mesh for sensitive fiber optics .
- ABB T&B Cable Tray Systems – Extensive catalog of adaptable and cost-efficient cable tray solutions .

Summary

For long-distance dedicated cable lines in Canada, ladder or ventilated trays made of aluminum, steel, or fiberglass are commonly used, sized according to CEC rules, and installed with continuous support and proper spacing. Using CSA/UL-certified trays from reputable suppliers ensures compliance, reliability, and long-term performance for power, control, or telecom applications.

Article Content

Unitray Cable Tray Systems, Support, Cable Management, Ladder Tray

We manufacture CSA approved Class C, D and E cable tray and fittings with standard 3m, 5m and 6m lengths. Other customized

Products & Solutions

From cable trays or cable ladders that precisely organize and support cables to underfloor ducts that streamline installations, our

Cable Tray Canada

MP Husky is the leading CSA Cable Tray supplier in Canada. Our fiberglass, steel, and aluminum cable tray systems are used in

Cable Tray and Reels | Wire and Cable Management

From heavy power cable pathways on oil drilling platforms to data center cabling, explore Cablofil® Wire Mesh Cable Tray that's

Wire Mesh Trays | Cable Tray and Reels | Cable Management

6" Deep Wire Mesh Cable Tray provides a dedicated pathway for routing and supporting low-voltage, power and data cables.

Canadian Cable Tray Supplier, Manufacturer: BT Series Specifications

General specifications as well as, Intersections, Side Rail, Rung and Accessories specs. A full line of Aluminum Cable Trays, UL

Leading Cable Tray Supplier in Canada

Custom designed, high quality cable tray systems which are reliable, robust and cost effective. CSA and

T&B Cable Tray | Brands | ABB Electrification Canada

All aluminum and steel ladder tray, as well as one-piece tray and channel tray, are manufactured at our Iberville plant in Saint-Jean

Cable Tray Technical Guide A practical guide to product selection

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Tray Installations

Tray Installations The placement of cables, ducts, and conduits can be done using cable trays – for both outside plant (OSP) and

WESCO Canada

Splice Plate, Cable Tray, Straight Standard, 4-Hole, Snap-in, Aluminum, 4-in. H
Siderail Manufacturer Series: Series ABW

Cable Bus Canada

Leading manufacturer of power distribution systems in Canada. Major supplier of cable bus systems to the United States (USA) &

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

T&B Cable Tray Systems | Products | ABB Electrification Canada

T&B Cable Tray Systems Cable tray wiring systems offer significant advantages over conduit pipe and other wiring systems. Cable

Complete cable tray manual for electrical engineers and designers

The final drawings for a cable tray wiring system may be completed and sent out for bid or construction more quickly

TRAY CABLE CATALOGUE

Tray cable is a multi-conductor or multi-pair or triad control, signal or power cable specifically approved under the Canadian Electrical

Unitray Cable Tray Systems, Support, Cable Management, Ladder Tray

While some cable tray manufacturers can take 3-4 weeks to process your order, Unitray manufactures and delivers cable tray

Cable Tray

Our cable tray collection offers a wide range of high-quality, durable solutions for organizing and managing cables in a variety of

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

