

Trough-type straight-through cable tray



Overview

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance.

Key Takeaways

A trough-type straight-through cable tray is a rigid, U-shaped cable management system designed for secure, organized, and accessible routing of electrical and data cables along straight runs. Overview

A trough-type cable tray features a continuous U-shaped profile with side rails and a solid or ventilated bottom, providing robust support and protection for cables. The straight-through variant is specifically designed for linear cable runs, allowing for simple, uninterrupted installation without bends or junctions . This design is ideal for environments where minimal cable sag and maximum protection are required.

Construction and Materials

These trays are typically manufactured from galvanized steel, stainless steel, aluminum alloys, or high-strength polymers. Modern environmentally friendly options, such as the TTS Green Trough, use recycled polymers while maintaining durability and UV resistance for over 50 years . The materials ensure resistance to corrosion, temperature extremes (-40°C to +80°C), and chemical exposure, making them suitable for industrial, commercial, and outdoor applications .

Key Features

- **Solid or Ventilated Bottom:** Solid bottoms protect sensitive cables from dust, moisture, and debris, while ventilated bottoms improve heat dissipation and reduce weight .
- **Side Rails:** Provide structural integrity and contain cables securely.
- **Modular Design:** Allows easy customization, expansion, and on-site modifications using basic tools .
- **Load Capacity:** Depends on material, thickness, tray width, and support spacing; steel trays generally support heavier loads than aluminum .
- **Environmental Resistance:** Resistant to UV, acid rain, salt, and snow-melting agents, ensuring long-term performance .

Applications

Trough-type straight-through trays are widely used in:

- Industrial plants and manufacturing facilities
- Data centers and telecommunications networks
- Power plants, railways, and renewable energy installations
- Commercial buildings, hospitals, and educational institutions They are suitable for power, control, and communication cables, including sensitive fiber optic networks, and can accommodate multiple cable types simultaneously .

Installation Benefits

- **Fast and intuitive assembly** with low weight and simple jointing mechanisms .
- **Maintenance-friendly:** Provides easy access for inspection, repair, or cable addition.
- **Flexible integration:** Compatible with existing infrastructure and supports both new construction and retrofit projects .
- **Optimized cable management:** Maintains proper bend radius, preventing signal degradation and extending cable lifespan .

Conclusion

A trough-type straight-through cable tray offers a durable, versatile, and efficient solution for organized cable routing along straight paths. Its robust construction, modularity, and environmental resistance make it ideal for a wide range of industrial, commercial, and infrastructure applications, ensuring both operational efficiency and long-term safety compliance .

Article Content

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance.

Fibertrough Straight

Cablofil Fiber Trough utilizes high strength steel components to provide the strength and durability required to manage fiber cabling

Wire and Cable Management

Using a unique joining method that mechanically locks components together without fasteners or heat, this wiring trough ships

B-Line 37AVT-18-144 Aluminum Ventilated Trough Cable Tray

Please contact your sales representative for accurate availability, pricing, and lead times. Orders may be subject to freight charges.

Trough Cable Trays Supply and Manufacturing

Its “trough” design—often featuring a solid or partially enclosed bottom—provides an effective barrier against dust, moisture, and

Cable Tray And Fittings | Graybar Store

A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

Wire and Cable Management

The CLEAN TRAY Stainless Steel Cable Tray is designed to protect rated cabling in applications that require frequent washdown. A

Trough Cable Trays

Trough Cable Trays offer moderate ventilation with added cable support frequency. It has the bottom configuration providing cable

Cable Tray

The reason to select a ventilated trough cable tray over a ladder type cable tray is aesthetics. No drooping of cables is visible. The

Cable tray manual

Small diameter cables may exit the ventilated trough cable tray through the bottom ventilation holes as well as out the top of the

Straight Galvanized Steel Through Type Cable Tray with Cover Price List

Straight Galvanized Steel Through Type Cable Tray with Cover Price List, Find Details and Price about Cable Tray Stainless Steel

Cable Tray System Overview - PAKTECHPOINT

Ladder Type Cable Tray The basic component of any cable tray system is the straight section seen below. This section establishes

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

Trough Cable Management | Legrand

Trough Cable Management Quality makes a difference. Cablofil® trough cable trays give any installation a professional look with

Cable Tray Institute

Fabricated in numerous styles (wiremesh, ladder, ventilated trough, channel, and solid-bottom) and sizes, cable tray provides the

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