

Complete range of trough-type cable trays



Overview

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

Key Takeaways

Trough-type cable trays include ladder, perforated, solid-bottom, and channel trays, each designed to support and protect cables while accommodating different load, ventilation, and environmental requirements.Ladder Cable Tray

The ladder-type cable tray consists of two longitudinal side rails connected by transverse rungs, forming a ladder-like structure. This design allows excellent airflow, which helps dissipate heat generated by power cables, making it ideal for heavy-duty installations and long spans. Ladder trays are commonly used in power plants, substations, and industrial facilities due to their high load-bearing capacity and ease of cable installation and maintenance .

Perforated Cable Tray

A perforated cable tray features a solid bottom with evenly spaced holes, providing moderate ventilation while supporting cables securely. This type is suitable for control rooms, commercial buildings, and instrumentation wiring, offering a neat appearance and controlled airflow to prevent overheating of medium-load cables .

Solid-Bottom Cable Tray

The solid-bottom cable tray is fully enclosed, providing complete protection for cables against dust, moisture, and electromagnetic interference. It is commonly used in data centers, hospitals, and sensitive control systems, especially for fiber optic or signal cables where environmental protection is critical. Optional covers can further enhance protection .

Channel Cable Tray

Channel trays are U-shaped or C-shaped troughs that provide a compact and enclosed support for cables. They are often used for short runs from main trays to equipment or devices, offering protection and maintaining cable organization. Channel trays can have ventilated or solid bottoms depending on the need for airflow and heat dissipation .

Material Considerations

Trough-type cable trays are manufactured from aluminum, galvanized steel, stainless steel, or fiber-reinforced plastic (FRP). Material selection depends on environmental conditions, such as corrosive atmospheres, outdoor exposure, or high humidity, and mechanical requirements like load capacity and durability .

Summary

Each trough-type cable tray is optimized for specific conditions:

- Ladder trays for heavy power cables and long spans with high ventilation.
- Perforated trays for moderate loads with controlled airflow.
- Solid-bottom trays for sensitive or protected cable installations.
- Channel trays for short runs and compact routing. Selecting the appropriate trough-type cable tray ensures efficient cable management, heat dissipation, and long-term reliability in electrical installations .

Article Content

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