

RIVO MULTITRADE OPTICAL SYSTEMS

PVC wire duct in distribution box



Overview

IBOCO's wire duct is easy to install, uninstall, and is manufactured with rigid self-extinguishing PVC plastic.

Key Takeaways

PVC wire ducts are essential cable management components used in distribution boxes to organize, protect, and route electrical wiring safely and efficiently. Overview

PVC wire ducts, also known as cable ducts or trunking, are designed to organize and protect wires inside distribution boxes, control panels, and switchboards. They provide a neat and safe pathway for electrical and telecommunication cables, preventing tangling, physical damage, and electrical hazards while allowing easy access for maintenance or upgrades .

Material and Properties

- **Material:** High-quality PVC, offering excellent insulation, durability, and fire resistance .
- **Flame Retardancy:** Many PVC ducts meet UL 94 V-0 standards, ensuring they resist ignition and limit fire propagation .
- **Temperature Resistance:** Continuous-use temperatures typically range up to 95°C (203°F), with some industrial variants rated higher .

- **Chemical and Environmental Resistance:** PVC ducts are resistant to moisture, chemicals, and environmental stress, making them suitable for industrial and commercial installations .

Design Features

- **Toothed or Slotted Sides:** Facilitate easy cable entry, secure positioning, and flexible routing .
- **Modular Sections:** Standard lengths (e.g., 1 meter) allow for modular installation and easy cutting to fit specific panel sizes .
- **Covers and Base:** Typically consist of a U-shaped base and a removable cover, providing protection while allowing access for maintenance .
- **Compact Dimensions:** Common sizes, such as 30mm height x 25mm width, fit neatly inside distribution boxes without wasting space .

Applications

- **Electrical Distribution Panels:** Organizes power and control wiring, reducing clutter and improving safety .
- **Industrial Automation:** Manages complex networks of PLCs, sensors, actuators, and HMIs .
- **Telecommunication Cabinets:** Keeps signal and data cables separated and accessible .
- **Residential and Commercial Installations:** Ensures clean and professional wiring layouts .

Benefits

- **Safety:** Protects wires from mechanical damage, moisture, and accidental contact.
- **Maintenance:** Simplifies troubleshooting, upgrades, and reconfiguration of wiring.
- **Aesthetics:** Provides a clean, organized appearance inside distribution boxes.
- **Efficiency:** Reduces installation time with easy cutting, mounting, and cable entry features . PVC wire ducts are a versatile and reliable solution for managing electrical wiring in any distribution box, ensuring both safety and efficiency in electrical installations.

Article Content

Wire Duct And Cable Ducts | Wire And Cable

IBOCO's wire duct is easy to install, uninstall, and is manufactured with rigid self-extinguishing PVC plastic.

PVC Slotted Cable Duct Supplier Guide: How Plastic Wire Ducts Are

Explore how pvc slotted cable ducts are made, their key types, materials, and applications. This complete supplier

PVC Wiring Ducts

Wiring ducts are troughs that guide and separate short runs of wire and cable. They often have fingers on the sides that create slots

The Ultimate Guide to Wiring Ducts for Optimal Protection

Wiring ducts, also known as wire ducts or cable ducts, are conduits that organize and protect wires and cables inside

Wire Duct, Cable Management, Wiring Duct, Wire Channel, PVC Wire

Typical applications of wire duct used in electrical control cabinet (above) and to contain power and networking cables in one of

Amazon : Pvc Wiring Duct

Explore a wide selection of PVC wiring ducts for organized cable management. Find durable options for residential and commercial

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

