Fiberglass Cable Tray Models and Specifications



Overview

Learn fiberglass cable tray types and specs. Compare trough, tray, ladder and epoxy composite systems to choose the right cable support for industrial projects.

Key Takeaways

Fiberglass cable trays, also known as FRP or GRP trays, are corrosion-resistant, lightweight, and non-conductive systems available in ladder, trough, and channel models, designed for harsh industrial and marine environments. Types of Fiberglass Cable Trays1.

Ladder Type

Consists of two side rails connected by transverse rungs. Open design allows excellent ventilation and heat dissipation, ideal for power cables and large-diameter control cables. Commonly used in power distribution, substations, and industrial plants.

Available in light, medium, and heavy-duty load classes with varying rung spacing for flexibility in installation and cable management. 2.

Trough or Channel Type

Features a bottom plate with side rails, providing more protection while allowing some ventilation. Suitable for control, communication, and instrumentation cables that require shielding from dust or falling objects. Often used in computer networks, sensitive signal circuits, and industrial control systems.

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3.

Enduro/

Marine Rung Type

Designed for extreme corrosive and marine environments, including offshore platforms and chemical plants. Provides a 2-inch cable support surface and allows stainless steel banding for compliance with marine safety standards.

Material and Resin Specifications

Material: Pultruded Fiber Reinforced Polymer (FRP) or Glass-Reinforced Polymer (GRP). Resin Types: Isophthalic Polyester (IP): Good UV and weather resistance, commonly used in ICMS trays. Other resins may be available depending on project requirements.

Properties: Corrosion-resistant against chemicals and harsh environments. Impact-resistant, returning to original shape without permanent deformation. Non-conductive, reducing electrical hazards.

UV-resistant for outdoor exposure. Fire-retardant in accordance with ASTM E-84 standards. Standards and ComplianceNEMA FG1: Standard for fiberglass cable tray systems.

BS E

N 61537: 2007: European standard for cable tray systems.

NEM

A VE-2: Guidelines for fiberglass electrical support systems.

AB

S Approval: For marine applications, ensuring compliance with vessel safety requirements.

Installation and Performance Features

Lightweight: Approximately four times lighter than steel, simplifying installation. Easy to install: No welding required; can be cut and drilled on-site. Durable: Long service life with low maintenance costs.

Versatile fittings: Includes straight sections, bends, tees, reducers, and covers for complex routing. Strength-to-weight ratio: Comparable to steel while significantly lighter, enhancing structural efficiency.

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Applications

Industrial plants: Chemical, oil, and metal refineries. Marine and offshore platforms: Resistant to saltwater and harsh conditions. Water treatment and power plants: For both power and instrumentation cables.

Sensitive electronics: Communication and control systems requiring protection from environmental hazards. Fiberglass cable trays provide a robust, lightweight, and corrosion-resistant solution for cable management in demanding environments, with multiple models and resin options to suit specific project requirements.

Article Content

Fiberglass Cable Tray Types & Guide | Unicomposite

Learn fiberglass cable tray types and specs. Compare trough, tray, ladder and epoxy composite systems to choose the right cable support for industrial projects.

Fiberglass channel tray | Polyester cable ladder | Vinyl

Tested for ABS, NEMA and IEC, B-Line series fiberglass cable tray is ideal for harsh, marine and caustic environments. Learn about its corrosion resistant

FIBERGLASS CABLE LADDER TRAY

Creative Enduro''s stringent quality standards and composites expertise produce the leading FRP cable ladder tray systems for corrosive and demanding conditions

Fiberglass (FRP) Cable Tray for Extreme Conditions

Our fiberglass cable tray has been designed by our technical experts to meet customer needs for quality performance in the harshest environments. Our Glass-Reinforced Polymer (GRP) cable tray systems

Fiberglass Cable Tray

Our Fiberglass Cable Tray gives you the load capacity of steel, plus the inherent characteristics afforded by Pultrusion Technology: non-conductive, non-magnetic, and corrosion-resistant.

Cable Tray Systems Catalog

Please click the appropriate link below to view the catalog section as a PDF.

Wire Mesh Cable Tray and Ladder Systems

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Fiberglass: Fiberglass cable trays are highly resistant to corrosion, chemicals, and extreme temperatures. They are suitable for environments where metal trays might corrode or degrade over

Fiberglass Cable Tray

NEMA FG 1: Published by the National Electrical Manufacturers Association (NEMA), this is the standard for “Fiberglass Cable Tray Systems,” specifying the design, performance, testing, and

Fiberglass Reinforced Plastic (FRP) Cable Tray

SFSP-INTECH Fiberglass Reinforced Plastic Cable Management System is available with a full range of fittings, splices, covers, accessories and support channels of cantilever and trapeze junctions.

FIBERGLASS CABLE MANAGEMENT SYSTEM

ICMS Fiberglass cable tray system has been designed to work in most extreme corrosive environments for managing the cables. The system including straight Length, fittings and accessories is

Common Cable Tray Failures and How to Resolve Them

Learn about common cable tray failures, their causes, and practical solutions for ensuring the longevity and safety of your cable tray system,

Cable Tray Systems

MP Husky Manufactures the following types of Cable Tray Systems: Aluminum, Mill Galvanized Steel, Hot-Dipped Galvanized Steel, Stainless Steel, Fiberglass,

Champion Fiberglass

Champion Fiberglass is the leading supplier of fiberglass electrical conduit and strut to the industrial, electrical and mechanical markets.

2026 Best Molded Cable Tray Options for Your Projects?

Overview of Molded Cable Tray Systems for Cable Management Molded cable tray systems play a crucial role in modern cable management. They offer a versatile solution for

Atkore | Electrical Cable Management, Safety, & Infrastructure Solutions

Atkore manufactures electrical conduit, cable management, and infrastructure solutions that improve safety, efficiency, and performance across industries.

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Cable Tray and Reels | Wire and Cable Management

Cablofil® Products Fast installation with dependable support. Everything you need to build a cable management system, including Cablofil wire mesh cable tray, ladder cable tray, prefab assemblies

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

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