National Standard for Cable Tray Construction GB



Overview

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

Key Takeaways

The Chinese national standard for cable trays is GB/T 21762-2008, which specifies requirements, testing, and usage for cable tray and ladder systems in electrical and communication installations. Overview of GB/T 21762-2008GB/T 21762-2008 defines the technical requirements and testing methods for cable tray systems and cable ladder systems used to support and organize electrical or communication cables. These systems can also be used for cable grouping when necessary.

The standard explicitly excludes pipeline systems, cable trunking systems, conduit systems, or any current-carrying components from its scope.

Key Requirements

Materials: Cable trays must be made from materials that provide sufficient mechanical strength and corrosion resistance. Common materials include cold-rolled steel, galvanized steel, and aluminum alloys, with surface treatments such as hot-dip galvanizing or electrostatic spraying to meet anti-corrosion standards. Load Capacity: The trays are designed to support a minimum load, typically not less than 200 kg/m, ensuring safe operation under full cable load.

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Fire Resistance: Cable trays must meet fire resistance requirements, often aligned with GB 8624 Class B1 for flame retardancy. Design Considerations: Installation paths should avoid interference with ventilation ducts, water pipes, and other building services. Minimum clearances are required, such as 300 mm from obstacles and 150 mm between power and weak-current trays when layered, with isolation plates at crossings.

Fire Compartment Compliance: When passing through fire compartments, firestop spaces must be reserved, and materials must comply with GB 23864 certification. Testing and ComplianceGB/T 21762-2008 specifies testing methods to ensure structural integrity, load-bearing capacity, and durability of cable tray systems. These tests verify that the trays can safely support cables and maintain performance under operational conditions.

Relation to Other Standards

While GB/T 21762-2008 is the national Chinese standard, cable tray systems may also reference international standards such as IEC 61537 for metal and nonmetallic trays, or NEMA VE 1/VE 2 standards for installation and maintenance practices. These provide additional guidance on installation, handling, and system modification for both metallic and nonmetallic cable trays.

Practical Implications

Compliance with GB/T 21762-2008 ensures: Safe and reliable support for electrical and communication cables. Proper separation of power and signal cables to reduce interference. Fire safety and structural integrity in building installations.

Standardized installation practices that facilitate maintenance and inspection. In summary, GB/T 21762-2008 provides a comprehensive framework for the design, material selection, installation, and testing of cable tray systems in China, ensuring safety, durability, and compliance with national electrical engineering requirements.

Article Content

Cable management — Cable tray systems and cable ladder systems

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

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IEC 61537:2023

This document specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and accommodation of cables and possibly other electrical equipment in

BS EN 61537: Cable Tray & Ladder Systems Standard

British Standard for cable tray and ladder systems (BS EN 61537:2002). Requirements, testing, classification for cable management.

BS EN 61537:2007 | 28 Feb 2007 | BSI Knowledge

BS EN 61537 specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and accommodation of cables and possibly other electrical

IEC 61537:2023 | IEC

IEC 61537:2023 specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and accommodation of cables and possibly other electrical equipment in

Cable Tray Standards | Cable Management | Metsec

Metsec cable tray systems are usually assembled using M6 roofing bolts particularly for couplers, fishplates and connection to supporting framework. These bolts should be tightened to a torque of

GB 50168-2018: Standard for construction and (English PDF)

GB 50168-2018: Standard for construction and acceptance of cable line electric equipment installation engineering (English PDF)

BS EN 61537 2007 Cable management_ Cable tray systems and

The document outlines the British Standard BS EN 61537:2007 concerning cable management for cable tray and ladder systems, providing guidelines for their design, dimensions, and testing.

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CABLE MANAGEMENT SYSTEMS CABLE TRAYS & ACCESSORIES

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Cable Tray Specifications and Sizes

The document specifies requirements for cable trays, including that they be fabricated from galvanized sheet steel in standard lengths and widths. It provides details on perforated and ladder cable tray

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Cable Tray Standards: A Global Overview of Production

Explore the cable tray standards of 30 countries across five continents. Learn about the key regulations and installation practices for cable

Cable Tray SHIB NAL

The National Electrical Manufacturers Association (NEMA) also publishes three consensus standards that apply to the proper manufacture and installation of cable trays: ANSI/NEMA-VE 1-1998, Metal

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