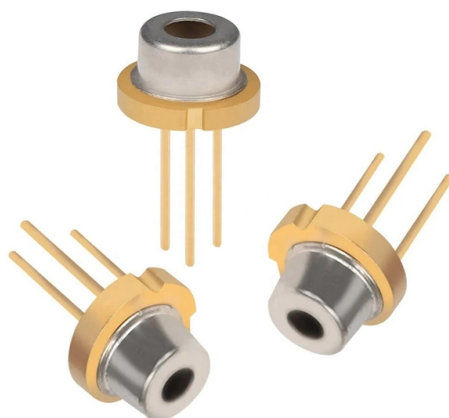


Double-layer distribution box dimensions and specifications



Overview

Double-layer Structure Design 8/12 Core Wall Mounted This 12-core fiber optic distribution box, developed in-house, complies with industry standard YD/T215.

Key Takeaways

Double-layer distribution boxes typically range from 300–600 mm in height, 200–400 mm in width, and 100–200 mm in depth, depending on capacity and application. General Specifications

Double-layer distribution boxes are designed to separate circuits or fiber optic trays into two functional layers, improving organization and accessibility. They are commonly used in industrial, commercial, and FTTX fiber optic installations. Materials include high-strength ABS or PC plastic, providing IP65-rated waterproofing, dustproofing, and anti-aging properties. Mounting options include wall-mounted, pole-mounted, or indoor/outdoor installations.

Typical Dimensions

While dimensions vary by manufacturer and number of ways or cores, standard ranges for double-layer boxes are:

- Height: 300–600 mm
- Width: 200–400 mm

- Depth: 100–200 mm For example, fiber optic double-layer boxes with 8–12 core capacity often use flip-style trays and are designed for efficient fiber management while maintaining compact dimensions . Electrical double-layer boxes, such as those meeting IEC standards, may have similar height and width ranges but are configured to accommodate multiple MCBs, busbars, and wiring space .

Structural Features

- Two functional layers: Separate distribution areas for easier maintenance and expansion.
- Flip-style trays or panels: Allow for modular installation of circuits or fiber cores.
- Cable entry and grounding units: Ensure safe and organized wiring.
- Sealing and anti-aging components: Maintain IP65 protection for outdoor or harsh environments.

Standards Compliance

Double-layer distribution boxes often comply with:

- IEC60529 for ingress protection
- IEC62262:2021 for mechanical impact resistance
- YD/T2150-2010 for fiber optic distribution boxes These standards ensure reliable protection, durability, and safety in both electrical and fiber optic applications.

Summary

Double-layer distribution boxes are versatile, compact, and standardized to fit a range of applications. Their height, width, and depth typically fall within 300–600 mm, 200–400 mm, and 100–200 mm, respectively, with variations depending on the number of ways, cores, or specific manufacturer designs. They provide organized, safe, and expandable distribution solutions for both electrical circuits and fiber optic networks .

Article Content

Distribution Boxes Technical Data

Topic DC Micro Style Distribution Boxes Four-pin, One Signal per Port Cable Connector Distribution Four-pin, Two Signals per Port

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