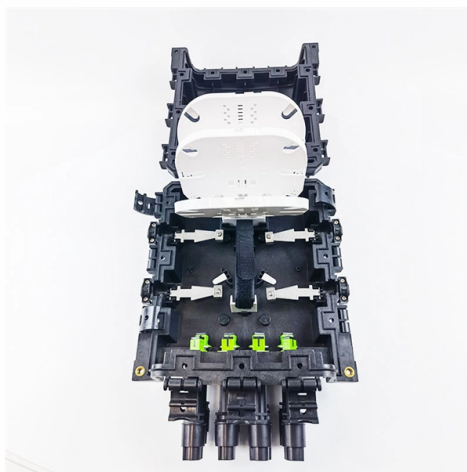


Dimensions of Network Distribution Box Housing



Overview

This document provides specifications for various distribution boxes including dimensions, mounting sizes, and number of ways.

Key Takeaways

Network distribution boxes vary in size, material, and configuration, with dimensions and specifications tailored for indoor or outdoor use, modular capacity, and protection standards. General Dimensions and Capacities

Distribution boxes are available in multiple configurations, ranging from 1-way to 36-way units for electrical distribution, and from small indoor boxes for 10–400 pairs to larger network boxes for 1,340 pairs. Typical dimensions are provided in length, width, and height, with tolerances of about $\pm 10\%$ depending on manufacturer specifications. Indoor boxes often follow IP20 protection standards, while outdoor boxes are designed for IP55 protection, ensuring resistance to dust and water ingress.

Material and Construction

- Outdoor boxes are generally fabricated from 2 mm galvanized iron (GI) sheet steel with reinforced channels for structural stability.
- Indoor boxes are often made of lightweight steel with stainless steel backmount frames to support LSA-PLUS® modules.

- Doors are typically lockable, with 180-degree access, and may include hinges that are concealed for security .

- Roofs of outdoor boxes are slightly slanted with a 50 mm overhang to prevent water ingress .

Mounting and Installation

- Boxes can be wall-mounted, floor-mounted, or installed in false ceilings/technical flooring depending on the type .

- Cable entry is facilitated through heavy-duty, double compression cable glands for both incoming and outgoing cables .

- Earthing points are provided on either side of the box for safety compliance .

Functional Features

- Bus bars are arranged to provide adequate clearance and insulation, often made of copper flat bars (25x4 mm) .

- Boxes may include MCCB arrangements for outgoing feeders, with insulation tubing or phase-colored paint for easy identification .

- Indoor network boxes support modular LSA-PLUS® connections, jumper rings for cable management, and optional overvoltage protection .

- Area distribution boxes for RJ45 connections can accommodate 1-12 sockets, supporting Cat 5e or Cat 6 standards .

Standards and Compliance

- Outdoor boxes conform to IP55 and are tested at certified laboratories like CPRI .

- Electrical components comply with IS: 13947 or equivalent IEC standards .

- Indoor boxes follow DIN 450050 and other applicable guidelines for safety and grounding .

Summary

Network distribution boxes are highly configurable, with dimensions, materials, and features tailored to indoor or outdoor environments, modular capacity, and protection requirements. Selection should consider installation location, number of connections, cable entry options, and compliance with IP and electrical standards to ensure safety, durability, and operational efficiency .

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