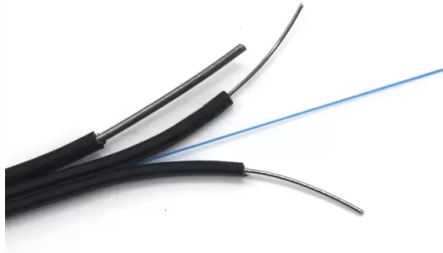


Electrical Distribution Box System for Enclosure



Article Overview

An electrical distribution box safely distributes incoming power to multiple circuits through protective devices within a secure enclosure, tailored for residential, commercial, or industrial applications.

Overview

A distribution box (DB Box) is a low-voltage electrical enclosure that receives power from a main supply and distributes it to multiple outgoing circuits while protecting wiring and connected equipment from faults. It is also referred to as a power distribution box, DB box, or consumer unit in residential settings, and serves as a central hub for circuit organization and safety .

Key Components

Typical internal components of a distribution box include:

- Main switch or isolator: Controls the incoming supply and allows safe isolation of the system .
- Circuit breakers (MCBs, RCBOs, RCDs): Protect individual circuits from overloads and short circuits .
- Busbars: Conductive bars for distributing current to multiple circuits efficiently .
- Neutral and earth bars: Provide proper grounding and neutral connections for safety .
- Surge protective devices (SPDs): Protect against voltage spikes .

Article Content

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