

What is the main line of the distribution box



Article Overview

The main line of a distribution box is the primary incoming power cable that connects the building's main supply to the distribution box, feeding electricity to all branch circuits.

Overview

The main line, also called the incoming supply line, is the cable that brings electrical power from the utility or main service panel into the distribution box (DB box) of a building . It is the first point of entry for electricity and is typically connected to the main switch or main circuit breaker, which allows the entire distribution box to be safely disconnected for maintenance or in case of an emergency .

Connection and Components

Once the main line enters the distribution box, it is connected to busbars, which are conductive strips made of copper or aluminum . The busbars distribute the incoming electricity to multiple branch circuits through protective devices such as Miniature Circuit Breakers (MCBs), Residual Current Devices (RCCBs), or fuses . This setup ensures that each circuit receives power safely while protecting the system from overloads, short circuits, or leakage currents.

Safety and Function



Article Content

Distribution Lines: Power System Guide

A distribution line is the part of the electric power system that carries electricity from a distribution substation toward

Distribution board

The three service conductors—two "hot" lines and one neutral—can be seen coming in at the top. The neutral wire is connected to

Understanding Distribution Boxes:A Comprehensive Guide

The main role of a distribution boxes is to channel electric current from the main supply to different circuits within a

Complete Guide For Distribution Boxes Types

Distribution boxes, also known as electrical distribution boards or panels, are pivotal components in electrical systems, ensuring the

How Does a Power Distribution Box Work

Learn how a power distribution box works step by step—from incoming power to circuit protection and smart monitoring—for safe,

Electric power distribution

A 50 kVA pole-mounted distribution transformer Electric power distribution is the final stage in the delivery of electricity. Electricity is

Distribution Box: Types and Functions | Axis-Electricals

A distribution box houses all the contact breakers, earth leakage units, doorbells, and timers. The electrical power supply comes from

Distribution Boxes Types - The Complete Guide

The power distribution boxes deliver electricity from the main electrical main to other circuits. Several distribution boxes

Chapter 1: Overview of The Power Distribution System

Overview of the System Electricity enters the site from a Transformer through the "Service Entrance" to the main electrical panel

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