

Inlet wire from the distribution box



Article Overview

Inlet wires are the main incoming power lines that connect to the distribution box's main terminals, providing electricity to all circuits safely and efficiently.

Understanding Inlet Wires

Inlet wires, also called main supply wires, bring electrical power from the utility or main service panel into the distribution box. These wires are typically phase (live), neutral, and ground. Correct connection ensures safe distribution of electricity to all branch circuits and prevents hazards like short circuits or overloads ().

Wire Color Coding and Specifications

- Phase (Live) wires: Usually brown or red; in three-phase systems, A-phase is yellow, B-phase green, and C-phase red ().
- Neutral wire: Typically blue.
- Ground wire: Green or green-yellow striped.
- Wire gauge: Must match the load; for lighting and sockets, 2.5mm² is common, while air conditioning or heavy appliances may require 4.0mm² ().

Connection Procedure

- Power Off: Ensure the main supply is completely turned off and verified with a tester ().
- Mount the Box: Secure the distribution box at an accessible height, level, and stable ().
- Strip and Prepare Wires: Remove insulation from the ends of the inlet wires, ensur...

Article Content

Mar 27, 2026

A Step-by-Step Guide to Wiring an Electrical Panel Box

Find out how to properly wire an electrical panel box with a comprehensive diagram and step-by-step

Dec 16, 2025

Size determination, installation method and wiring mode of distribution ...

The distribution box is the central hub of the home circuit and the general control of our daily power consumption. It is an

Jul 20, 2026

Generator Inlet Box Buyer's Guide

Discover how a generator power inlet box simplifies backup power. Learn when you need one, how it connects to a manual transfer

Aug 22, 2025

How to Wire 120/240V Main Panel

How to Wire 240V Circuits & Breakers The following tutorial explains how to wire split-phase (240V single

May 02, 2026

How to Install a Cable Distribution Box Safely and Correctly?

In modern electrical systems, cable distribution boxes (also known as electrical distribution boxes or distribution

Oct 08, 2025

How to Connect a Distribution Box

Learn how to connect a distribution box with this easy-to-follow, step-by-step guide. From tools and materials needed to common

Sep 19, 2025

How to Wire a Junction Box for Socket and Light Circuits

Advice on wiring electrical junction box with easy to follow junction box wiring diagrams, including

Oct 31, 2025

Distribution Box and Selection Guide: Internal Structure, Components ...

Learn how to choose a distribution box and understand its internal structure, including MCBs, busbars, neutral bars,

Mar 04, 2026

Generator Inlet Box Installation (Step-by-Step + Wiring Diagram)

Generator Connection Guide Generator Inlet Box Installation: Step-by-Step Guide + Wiring Diagram A generator inlet box gives a

Aug 29, 2025

Three Phase Electrical Wiring Installation in Home

How to Wire 3-Phase Electrical Distribution Board & Consumer Unit in Home In our today electrical wiring installation tutorial, we will

Jun 27, 2026

Buy Generator Power Inlet Box for Safe Connections | Lowe's

Connect your portable generator safely with a generator power inlet box from Lowe's. Perfect for reliable home backup. Order online

Aug 29, 2025

Distribution Box Wiring Steps

Wiring and Binding Wiring Direction: Wiring between the main circuit breaker and each

Jan 05, 2026

All About Electrical Wiring Types, Sizes & Installation

Learn the basics of electrical wiring for the home, including wire and cable types, wire color

Aug 20, 2025

What is a DB Box? Types, Wiring, Selection Guide

Learn everything about DB box (distribution box): what they are, how they work, wiring diagrams, types,

Sep 07, 2025

Home Distribution Box (DB) Wiring Diagram | DB box connection

In this video, I'll show you the complete wiring diagram of a home distribution board

Jul 20, 2026

Southwire 6506UGSX :: Power Distribution Box, 50A Inlet, 50/30/20A ...

The X-TREME BOX™ portable power distribution center is intended for connection to a split-phase 125/250V 50A power source.

Jun 02, 2026

Reliance Controls PB30 Installation Instructions

If using conduit, pull at least three color-coded wires (AWG #10 minimum, AWG #8 maximum) -- use white for neutral, and two other

Nov 11, 2025

Wiring diagram of electrical distribution box

You can see the wiring diagram of single phase distribution box from main meter to DB and other sub-circuit in the

Feb 08, 2026

Wiring of the Distribution Board with RCD (Single Phase Home Supply)

The above mentioned electrical wiring accessories and protective devices are used to control and distribute electric supply (safely to

Jul 12, 2026

Generator Inlet and Transfer Switch Wire Sizing Guide

Learn how to size generator inlet, transfer switch, and feeder conductors using NEC 445,

Aug 06, 2025

Wiring of the Distribution Board From Energy Meter to the Consumer

Below is a Wiring diagram of the distribution board, Single phase electric supply from electric pole and Energy meter to the main

Jul 06, 2026

The installation requirements for the distribution box

Learn how to install a distribution box safely and correctly. Covers wiring, placement, standards, and expert tips for a

Feb 16, 2026

Step-by-Step Guide to Wiring a 3 Phase DB Box

Learn about the wiring process for a 3 phase distribution board (DB) box, including the necessary steps and safety precautions.

Apr 14, 2026

How to Wire a Home Distribution Box

Welcome to our channel! In this video, we'll walk you through the process of wiring a

Feb 10, 2026

Distribution Box Wiring Steps

Wiring Direction: Wiring between the main circuit breaker and each branch circuit breaker in

May 19, 2026

How to wire a DB - Distribution Board Wiring - Mechatrofice

Through the MCB phase lines are distributed to electrical wiring for lighting, fixed devices, and power distribution

Sep 14, 2025

Amazon : Power Distribution Box

Browse power distribution boxes with circuit breaker protection and multiple outlet configurations. Shop durable solutions for

Jan 23, 2026

30 Amp Power Inlet Box

Our 30 amp generator inlet box, designed for any transfer switch, generator-ready load center, and many

May 29, 2026

A step-by-step guide to wiring your breaker box

Learn how to read and understand wiring diagrams for breaker boxes to ensure proper electrical configurations and safety measures.

May 19, 2026

How a Home Electrical System Works

How does a basic electrical circuit work in a home? A basic electrical circuit involves a hot wire (typically black)

Dec 30, 2025

Generator Inlet Box Wiring Diagram Guide

Clear generator inlet box wiring diagram with labeled components and connection steps for safe and correct installation. Ideal for

Feb 01, 2026

Why Are Wire Harnesses Strictly Prohibited From Directly Contacting

Direct contact between a wire harness and the inlet of a waterproof distribution box leads to severe electrical failures.

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: sales@iiss.co.za

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

