

The central unit of the entire wiring system



Overview

Every wire in your home — every socket, every light, every appliance circuit — traces back to a single grey box on the wall: the distribution board, also called a consumer unit or, in older installations, a fuse box. Electrical wiring is a crucial component of any building, ensuring that power is distributed safely and efficiently to all appliances, lighting, and devices. A circuit, by definition, is a circular journey that begins and ends at the same place, and this is. Here is a schematic picture of all the major parts of your home electrical system. Allowable wire and cable types and sizes are specified. The 120-volt circuits use one phase of the electrical service to power standard home appliances. However, certain larger appliances such as water heaters, electric rangers, or clothes dryers require a 240-volt circuit, which is created using both 120-volt wires and the neutral wire.



Article Content

Jan 14, 2026

PLC learning series 3: PLC Architecture and wiring of PLC

Architecture of PLC: CPU A processor or central processing unit (CPU) is a unit that contains a microprocessor that

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Control System Architecture

This type of system architecture was common for power plants and other facilities using single-loop controllers or early

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Electrical Wiring Systems Overview | PDF | Electric Power ...

What role does a distribution board play in electrical wiring systems, and what are its main components? A distribution board groups

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Electrical Wiring System Overview | PDF | Electrical Wiring ...

The document discusses the components of an electrical wiring system including: 1. The service which delivers electricity from the

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What are the parts of the nervous system?

The nervous system has two main parts: The central nervous system is made up of the brain and spinal cord. The

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Construction

Construction - Electrical, Wiring, Systems: Electrical systems in these buildings begin at a step-down transformer

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Basic Electricity and House Wiring

In this course you will learn: Electricity - Volts, Amps, Ohms, Watts Calculations - Ohms Law, Kirchoff's Law Electrical Components

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How a Home Electrical System Works

A circuit consists of a hot (usually black) wire that goes from the main panel to a series of lights, receptacles, or

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Introduction to Control Unit and its Design

The control unit (CU) is a component of the computer's central processing unit (CPU) that directs the operation of the

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Heating, ventilation, and air conditioning

Heating is the process of transferring thermal energy to an enclosed space in order to raise or maintain its temperature for the

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Home wiring

The following home services are supported by discrete wiring systems: Information and communications Entertainment Energy

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ENUTI1: MODULE 10

Forms the backbone of an advanced home wiring system, enabling the reliable and efficient operation of a wide range of

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Central Nervous System (CNS): Structure & Main Functions

The Central Nervous System (CNS) consists of the brain and spinal cord. It acts as the body's control center,

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Basic Electrical Parts & Components of House Wiring Circuits

Learn how 9 basic electrical parts often seen in your household circuit. See how Fuse, Trip, Main Switches create the

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How Household Wiring Works: A Complete Beginner's Guide

The consumer unit is the most important component in your home's electrical system. It contains a main switch that

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Understanding Your Home Electrical System

Electricity enters your home through a service head from a series of outdoor power lines or an underground connection. A typical

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Central nervous system

The central nervous system (CNS) is the part of the nervous system consisting primarily of the brain, and

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Premise Cabling

Premise Cabling is the entire wiring system in a building, including cabling, power lines, wiring closets, distribution

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How Telephones Work

Telephones are one of the greatest technological advances of our time. Do you know how your call gets to its

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Central nervous system: MedlinePlus Medical Encyclopedia

The central nervous system is composed of the brain and spinal cord. Your brain and spinal cord serve as the main

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The Six Subsystems of a Structured Cabling System

The six subsystems that create a structured cabling system are explained in the context of the ANSI/TIA-568-C.0 and ANSI/TIA-568

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Electrical wiring

Electrical wiring is an electrical installation of cabling and associated devices such as switches, distribution boards, receptacles,

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Electrical Wiring Components, Types & Safety Explained

Learn the basics of home electrical wiring including wire types, gauges, safety practices, and key components used in

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Your Home Electrical System Explained

Master electrician explains your home electrical system in easy terms and with diagrams, so that you might become able to solve

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Definition, Components, Types & Tips

Distribution boards, often referred to as electrical panels or breaker boxes, serve as the nerve center of any electrical system. Here

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The nervous system is the electrical wiring of the body

It includes both the central nervous system and the peripheral nervous system (see below). The disposal expert was nervous about

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Inside Your Main Electrical Service Panel

See what's inside your electrical service panel, or breaker box, the heart of your home's electrical system.

Aug 04, 2025

Distribution Board Explained: How a Consumer Unit is Wired

The distribution board is the heart of every electrical installation. This guide explains what's inside a consumer unit,

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