

What size cable should be used in a secondary distribution box



Overview

Proper feeder cable size depends on load, distance, and voltage drop considerations. Copper or aluminum conductor choice also influences wire size. Professional electrical wire sizing tool based on National Electrical Code (NEC) standards. Supports both NEC (USA) and CEC (Canada) with appropriate derating factors for temperature and conduit fill conditions. The calculator. A subpanel is a secondary electrical distribution point that receives power from your main service panel, allowing you to extend circuits to a different area of your home, garage, or workshop. The wires connecting the main panel to the subpanel are called feeder conductors, and their correct sizing. The NEC (National Electrical Code) provides guidance on how to size wires correctly for feeders and subpanels. Choosing the correct subpanel wire size ensures safety, prevents overheating, and keeps. Electrical feeder sizing is one of the most critical calculations in any electrical installation, yet it's often misunderstood even by experienced professionals.

Article Content

Wire Size Calculator For Subpanels And Feeders – NEC Guidelines ...

Easily determine the correct wire size for subpanels and feeders with our NEC-compliant Wire Size Calculator for subpanels. Includes voltage drop, load, and ampacity guidelines for safe ...

Wire Size Calculator | Professional NEC Compliant Tool

Input your electrical parameters to get accurate wire size recommendations for safe installations. Selecting the correct wire size is crucial for electrical safety, code compliance, and system efficiency. ...

What Size Wire For A Subpanel In The USA? | Essential Wiring Guide

Selecting what size wire for a subpanel in the USA hinges on understanding amperage demands, distance-related voltage drops, conductor materials, environmental factors, and compliance with ...

Sub Panel Wire Size Calculator

Find the right wire gauge for your sub panel. Use our sub panel wire size calculator to ensure safe and code-compliant electrical installs.

Wire Sizing Calculator | Electrical Wire Gauge & Ampacity

Find the right electrical wire size based on load current, distance, and voltage drop requirements. Supports both NEC (USA) and CEC (Canada) with appropriate derating factors for temperature and ...

NEC 215.2: Minimum Rating and Size of Feeder Conductors

NEC 215.2 (A) (1) – Feeder Sizing by Load. Feeder conductors must have an ampacity not less than the calculated load served. Load is determined per Article 220, which covers general ...

Electrical Feeder Size Chart: Complete Guide 2026

This comprehensive electrical feeder size chart combines NEC requirements with practical field experience to help you select the correct conductors for any application.

Cable Sizing Guide | Enginist

Use our Cable Sizing Calculator when designing electrical installations. Enter load current, ambient temperature, grouping, and cable length to get recommended cable size with ...

Online Wire Size Calculators & Tables

This site offers many simple-to-use calculators and wire ampacity charts to aide you in properly sizing wire and conduit in compliance with the NEC. Visit the Calculators and Tables pages for a complete ...

What Size Wire Do I Need for a Sub Panel?

Don't guess your wire size. Get a complete guide to accurately calculating subpanel feeder wire gauge based on load, environment, and code.

Contact Us

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