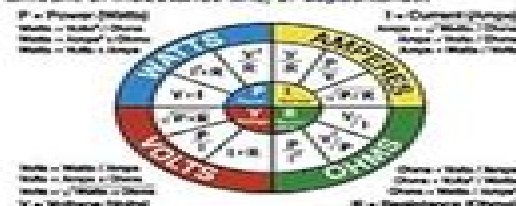


### NEUTRAL & GROUNDED CONDUCTORS (NEC Article 90; Article 200; Article 300)

#### OHM'S LAW & POWER FORMULAS

Ohm's law and the power formula are limited to circuits in which electrical resistance is the only significant opposition to current flow, including all DC circuits and AC circuits that do not contain a significant amount of inductance and/or capacitance.



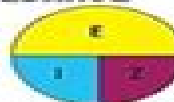
#### OHM'S LAW DIAGRAM & FORMULAS

**Voltage** = Current x Resistance  
 $E = I \times R$   
**Current** = Voltage ÷ Resistance  
 $I = E \div R$   
**Resistance** = Voltage ÷ Current  
 $R = E \div I$



#### OHM'S LAW & IMPEDANCE

**Voltage** = Current x Impedance  
 $E = I \times Z$   
**Current** = Voltage ÷ Impedance  
 $I = E \div Z$   
**Impedance** = Voltage ÷ Current  
 $Z = E \div I$   
 $E$  = Voltage (in volts)     $I$  = Current (in amps)  
 $Z$  = Impedance (in Ohms)



#### POWER DIAGRAM & FORMULAS

**Power** = Current x Voltage  
 $P = I \times E$   
**Voltage** = Power ÷ Current  
 $E = P \div I$   
**Current** = Power ÷ Voltage  
 $I = P \div E$



#### NUMBER OF CONDUCTORS — BOX FILL CALCULATIONS (Based on 314.16)

- Boxes and conduit bodies must be of an approved size to provide free space for all enclosed conductors.
- In no case must the volume of the box, as calculated in 314.16(A), be less than the fill calculation.
- Each conductor that originates outside the box and terminates or is spliced within the box must be counted once.
- Each conductor that passes through the box without splice or termination must be counted as one.
- Each loop or coil of unbroken conductor not less than twice the minimum length required for free conductors in 300.34 must be counted as twice.

#### NEUTRAL CONDUCTORS (Based on 200.4(A)(3)(2))

- Neutral conductors must be installed in accordance to:
- Neutral conductors must not be used for more than one branch circuit, for more than one multiwire branch circuit, or for more than one set of ungrounded feeder conductors.
  - Where more than one neutral conductor associated with different circuits is in an enclosure, grounded circuit conductors of each circuit must be identified or grouped to correspond with the ungrounded circuit conductor(s) by wire markers, cable ties or similar means in at least one location within the enclosure.

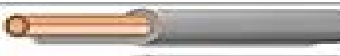
#### GROUNDED CONDUCTOR IDENTIFICATION (Based on 200.6(A)-(3))

Grounded Conductors Size 6 AWG or Smaller must be identified by their insulation through one of the following means:

- A continuous white outer finish
- A continuous gray outer finish
- 3 continuous white or gray stripes along its whole length on other than green insulation
- Insulated conductors with their outer covering showing a white or gray color but with colored tracer threads in the braid to identify the source are acceptable for identification
- The grounded conductor of a mineral insulated, metal-sheathed cable (Type MI) must be identified at the time of installation by distinctive marking at its terminations
- A single-conductor, sunlight-resistant, outdoor rated cable used as a grounded conductor in photovoltaic power systems, identified as indicated above at all terminations
- Fixture wire must comply with the requirements for grounded conductor identification as specified in 402.8.
- For aerial cable, the identification must be as above, or by means of a ridge located on the exterior of the cable so as to identify it.

Grounded Conductors Size 4 AWG or Larger must be identified in one of the following ways:

- A continuous white outer finish
- A continuous gray outer finish
- 3 continuous white or gray stripes along the entire length of the conductor on any but green insulation
- At installation, by a distinctive white or gray marking at its terminations. Marking must encircle the conductor or insulation.



Continuous White or Gray Finish



Three White or Gray Stripes on Anything but Green



Outer Coloring White or Gray With Colored Threads in Braid

**200 AMPS**

Service Entrance - From Utility Pole to Energy Meter

**150 AMPS**

Service Entrance & Feeder Wire - to Panel Box

**100 AMPS**

Service Entrance & Feeder Wire - to Panel Box

**55 AMPS**

Feeder & Large Appliance Wire

**40 AMPS**

Feeder & Large Appliance Wire

**30 AMPS**

Appliances such as Dryer, Air Conditioning, Water Heater

**20 AMPS**

Appliances such as Laundry, Bathroom & Kitchen Circuits

**15 AMPS**

General Lighting, Fans & Outlet / Receptacle Circuits

#### VOLUME ALLOWANCE REQUIRED PER CONDUCTOR (Based on NEC Table 314.16(B)(1))

| SIZE OF CONDUCTOR (AWG) | FREE SPACE WITHIN BOX FOR EACH CONDUCTOR |                  |
|-------------------------|------------------------------------------|------------------|
|                         | cm <sup>3</sup>                          | in. <sup>3</sup> |
| 18                      | 24.6                                     | 1.50             |
| 16                      | 28.7                                     | 1.75             |
| 14                      | 32.8                                     | 2.00             |
| 12                      | 36.9                                     | 2.25             |
| 10                      | 41.0                                     | 2.50             |
| 8                       | 49.2                                     | 3.00             |
| 6                       | 81.9                                     | 5.00             |

#### TERMINAL IDENTIFICATION (Based on 200.10(B)(3))

- Receptacles, polarized attachment plugs, and cord connectors for plugs and polarized plugs must have the terminal intended for connection to the grounded conductor identified as:
- Identification must be by a metal or metal coating that is substantially white or silver in color or by the word white or the letter W located adjacent to the identified terminal.
  - If the terminal is not visible, the conductor entrance hole for the connection shall be colored white or marked with the word white or the letter W.

#### SINGLE-PHASE DWELLING SERVICES & FEEDERS (Based on 210.10)

- For a service rated 100 through 400 amperes, the service conductors supplying the entire load associated with a one-family dwelling, or the service conductors supplying the entire load associated with an individual dwelling unit in a two-family or multifamily dwelling, must be permitted to have an ampacity not less than 83% of the service rating. **Note:** This also applies to feeders.
- In no case must a feeder for an individual dwelling unit be required to have an ampacity greater than that specified above.
- Grounded conductors must be permitted to be sized smaller than the ungrounded conductors, if the requirements of 220.61 and 220.42 for service conductors or the requirements of 215.2 and 220.61 for feeder conductors are met.

#### GROUNDED CONDUCTORS OF DIFFERENT SYSTEMS — IDENTIFICATION (Based on 200.6(D))

- Where grounded conductors of different nominal voltage systems are installed in the same raceway, cable, box or auxiliary gutter or other type of enclosure, each grounded conductor must be identified by nominal voltage system.
- Identification that distinguishes each system grounded conductor must be permitted by one of the following means:
  - One nominal voltage system grounded conductor must have an outer covering conforming to 200.6 (A) or (B).
  - The grounded conductor of other systems must have different outer coverings conforming to 200.6 (A) or 200.6 (B) or by an outer covering of white or gray with a readily distinguishable colored stripe other than green running along the insulation.

#### ALTERNATING-CURRENT SYSTEMS (Based on NEC 250.26)

| TYPE OF SYSTEM                                                          | CONDUCTOR TO BE GROUNDED |
|-------------------------------------------------------------------------|--------------------------|
| Single Phase, 2 Wire                                                    | one conductor            |
| Single Phase, 3 Wire                                                    | the neutral conductor    |
| Multiphase systems having a common wire to all phases                   | the neutral conductor    |
| Multiphase system where one phase is grounded                           | that phase conductor     |
| Multiphase systems in which one phase is used as a single phase, 3-wire | the neutral conductor    |

# National Electric Code Residential Wiring

**John E. Traister**



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*National Electrical Code Handbook* Brian McPartland, Joseph McPartland, 2005-05-17 The Best Code Reference in Print Edition after popular edition McGraw Hill's *National Electrical Code R Handbook* has delivered unmatched put the Code R into practice guidance No wonder it's been the leading reference on the NEC R for more than 70 years Completely updated to reflect the 2005 National Electrical Code R this is the most frequently consulted NEC R guidebook in the world an indispensable authoritative source of Code R how to's interpretation and advice Step by step advice on all troublesome and controversial sections of the Code R Helps electrical workers pass inspection the very first time Extra thorough explanations without word for word reproduction of the Code R A lavish offering of task simplifying photography and drawings to make every procedure crystal clear Best value because every page of every section provides 100% applicable Code R interpretation and advice

*NEC Q and A* Noel Williams, Jeffrey S. Sargent, 2007 Beginners will find answers to practical on the job problems and experts will be able to explore the reasons behind NEC rules and the additional issues related to each question in this examination of frequently and not so frequently asked questions Based on questions posed to and answered by NFPA's Advisory Services engineers NEC Q A Questions and Answers on the National Electrical Code includes hundreds of NEC specific questions along with references to NEC Articles and Sections

National Electrical Code National Fire Protection Association, 1988

Illustrated Guide to the 1999 National Electrical Code John E. Traister, 1999 This fully illustrated guide offers a quick and easy visual reference for installing electrical systems Whether you're installing a new system or repairing an old one you'll appreciate the simple explanations written by a code expert and the detailed intricately drawn and labeled diagrams A real time saver when it comes to deciphering the current NEC

National Electrical Code Reference Book J. D. Garland, 1977

**Guide to the National Electrical Code** Thomas L. Harman, Charles E. Allen, 1979

**NFPA's Residential Wiring** H. Brooke Stauffer, 2005 New from the leaders in electrical safety Get step by step advice for working in homes and concentrate on cable wiring methods used in over 90% of dwellings NFPA teamed up with well known electrical safety expert H Brooke Stauffer NECA's Executive Director of Standards and Safety to create this essential primer for designing and installing house wiring NFPA's Residential Wiring outlines the steps and precautions needed to install power wiring residential smoke detectors and systems covered in Article 800 of the NEC R such as telephone cable TV and broadband With easy to read text and detailed illustrations it addresses specific challenges room by room including AFCI protection for bedrooms small appliance branch circuits for kitchens and dining rooms GFCI protection for bathrooms and outdoor areas finished and unfinished basements HVAC equipment including water heaters laundry rooms general living areas pools fountains spas hot tubs and more The guide makes an excellent on the job source for beginning practicing electrical professionals plus it's the ideal text for classroom instruction

**National Electrical Code**, 1913 1978 edition updated by Tentative interim amendment 70 78 6 to the National electrical code NFPA 70 1978 approved for release June 20

1979     **Residential Wiring to the 2005 NEC** Jeff Markell, 2005 This book explains what every electrician needs to know about electricity how to select the right materials how to follow floor plans types and spacing of outlets and permissible loading on general purpose circuits Residential Wiring to the 2005 NEC is the complete guide for your electrical contractor customers for installing residential wiring to the 2005 NEC from the tools and gauges needed through switch circuits service entrances additions and alterations troubleshooting and repairs     **National Electrical Code 2017, Spiral Bound**

**Version** (Nfpa) National Fire Protection Association, 2016-10-13 NFPA 70 National Electrical Code NEC sets the foundation for electrical safety in residential commercial and industrial occupancies The 2017 edition of this trusted Code presents the latest comprehensive regulations for electrical wiring overcurrent protection grounding and installation of equipment

Engineer's Guide to the National Electrical Code H. Brooke Stauffer, 2008 This informative introduction to the NEC provides electrical engineers both professionals and students with invaluable insight to customary building codes Written by the Executive Director of Standards and Safety of the NECA H Brooke Stauffer offers a comprehensive description of the NEC and commonly encountered building codes when designing a building's electrical subsystems The Engineer's Guide to the National Electrical Code steers beginning electrical engineers through the complex regulations of the NEC in a clear and accessible way     **National Electrical Code, 1987** National Fire Protection Association, 1986     *McGraw-Hill's National*

*Electrical Code (NEC) 2017 Handbook, 29th Edition* Frederic P. Hartwell, Joseph F. McPartland, 2017-04-17 The Definitive Guide to the 2017 National Electrical Code Completely revised to fully align with the 2017 NEC McGraw Hill's National Electrical Code NEC 2017 Handbook 29th Edition presents the trusted advice and analysis you need to accurately interpret the latest set of rules In depth coverage of the background and rationale for specific rules enhances understanding of the meaning and application of those rules This practical resource also illustrates key points through discussions with owners and inspectors Designed to be used as a companion guide to the 2017 NEC itself this on the job reference is arranged in code order so the explanation for any topic lines up exactly with the applicable section in the code You will gain access to straightforward ready to apply code clarification enabling you to work efficiently and safely and achieve full compliance Completely updated to cover all changes in the 2017 NEC Provides concise explanations of controversial rules Written by a senior member of the NEC steering committee     **Residential Wiring** Brooke Stauffer, Paul Rosenberg, 2009-09-29 H

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