

NATIONAL TICO (00) DI= OUICK-CARDS®

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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

医一丁二氏 Current - Voltage - Resistance T = E + B

Resistance - Voltage + Current $B \rightarrow E + 1$



OHM'S LAW & IMPEDANCE

Voltage - Current x Impedance 8-1-2 Current - Voltage - Impedance

1 - 6 + 2Impedance - Voltage + Current **第一里中**王

E - Voltage (in volts) I - Current (in amps) Z = Impediance (in OHMs):

POWER DIAGRAM & FORMULAS

Power - Current x Voltage PHINE Voltage - Power + Current 夏四岁中日 Compat - Power + Wiltage

1-2-6



NUMBER OF CONDUCTORS --BOX FILL CALCULATIONS (Shared 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 354 IG(A) be less than the fill calculation.
- Each conductor that originates outside the box and berminates or is spliced within the box must be mounded ence.
- · Each conductor that passes through the box without solice or termination must be counted as once.
- Each lone or cell of unbroken conductor not less than twice the minimum length sequired for free conductors. in 300.14 must be counted as twice.

NEUTRAL CONDUCTORS (Based on 200.454)(12)

Neutral conductors must be installed in accordance to: . Nextical 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

unprounded 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. conductorist) by wire markers, cable ties or similar means in at least one location within the enclosure.

GROUNDED CONDUCTOR IDENTIFICATION (Second on 200.604-80)

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 groon insulation.
- Insulated conductors with their outer covering. showing a white or gray color but with oplored tracer threads in the braid to identify the source are acorptable 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 Serminations.
- · Fixture wire must comply with the requirements. for prounded conductor identification as specified
- For agrial 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 near marking. at its terminations. Marking must encircle the conductor of insulation.



	or Gray With Colored Theads in Braid
200 AMPS	Service Entrance - From Utility Pole to Energy Meter
150 AMPS	Service Entrance & Feeder Wire - to Panel Sus
100 AMPS	Service Entrance & Feeder Wire - to Panel Box
S5 AMPS	Feeder & Large Appliance Wire
40 AMPS	Feeder & Large Appliance Wiles

30 AMPS As Conditioning, Water Healer

20 AMPS Appliances such as Laundry, Blathysom & Kitchen Circuits

15 AMPS & Outlet / Reception Grounts

VOLUME ALLOWANCE REQUIRED PER CONDUCTOR (Based on MEC Inble 254.86(8)(1))

SIZE OF CONDUCTOR (NING)	FREE SPACE WITHIN BOX FOR EACH CONDUCTOR.	
	gree ¹	in, i
18	24.6	1.50
116-	28.7	1.75
1.4	32.8	2.00
12	36.9	2.25
70	41.0	2.50
8	49.2	3.00
6.	81.9	5.00

TERMINAL IDENTIFICATION (Based on 200, F0/8))

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 onlor 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 to 310.02)

- 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. Moter: This also applies to fooders.
- In no case must a feeder for an individual deedling unit berequired to have an ampacity greater than that specified
- Grounded conductors must be permitted to be sized smaller than the ungrounded conductors, if the requirement of 220.61 and 230.42 for service conductors or the requirements of 215.2 and 220.61 for feeder conductors are met.

GROUNDED CONDUCTORS OF DIFFERENT SYSTEMS — IDENTIFICATION (ILLUST OF 2001.6(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 arounded 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 (8) or by an outer covering of white or gray with a readily distinguishable colored stripe other than green running plants the insulation.

ALTERNATING-CURRENT SYSTEMS

TYPE OF SYSTEM	CONDUCTOR TO BE GROUNDED	
Single Phase, 2-Wire	ene 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	

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Huangqi Zhang

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