

Electrical Wiring Based on the 2017 Wiring Methods & Materials Laminated Quick Card

ELECTRICAL WIRING
BASED ON THE 2017 NATIONAL ELECTRICAL CODE
 WIRING METHODS & MATERIALS

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GENERAL REQUIREMENTS FOR ALL WIRING - SIZES & CLEARANCES

PROTECTION AGAINST PHYSICAL DAMAGE NEC 300.45

Conduits, raceways and cables exposed and protected conductors must be protected against physical damage.

Cable or raceway wiring through bored holes in joists, rafters, or wood members

• Cables and raceways installed through bored holes in joists, rafters, or wood members shall be protected by a minimum of 1/8" thick metal plate or equivalent material.

• Cables or raceways permitted to be laid in voids in wood joists, rafters, attics, or other void spaces shall be protected by a metal plate 1/8" thick.

Nonmetallic-sheathed cables passing through factory or field-purchased, cut or drilled holes or holes in metal

• Nonmetallic-sheathed cables passing through factory or field-purchased, cut or drilled holes or holes in metal shall be protected by a metal plate 1/8" thick.

Nonmetallic-sheathed cables and Electrical Nonmetallic Tubing that is likely to be permitted to cable or service

• Nonmetallic-sheathed cables and Electrical Nonmetallic Tubing that is likely to be permitted to cable or service shall be protected by a metal plate 1/8" thick.

Cable or raceway wiring installed parallel to existing overhead wiring

• Cable or raceway wiring installed parallel to existing overhead wiring shall be protected by a metal plate 1/8" thick.

Cable, raceway, or bus installed under suspended ceiling

• Cable, raceway, or bus installed under suspended ceiling shall be protected by a metal plate 1/8" thick.

Direct burial

• Direct burial cables and raceways shall be protected by a metal plate 1/8" thick.

CONDUCTORS IN VERTICAL RACEWAYS - SUPPORT METHODS NEC 300.37

One of the following methods of support must be used:

- The vertical distance between conductors shall not exceed 18 inches.
- The vertical distance between conductors shall not exceed 18 inches, and the conductors shall be supported by a metal plate 1/8" thick.
- The vertical distance between conductors shall not exceed 18 inches, and the conductors shall be supported by a metal plate 1/8" thick.

SUPPORTS FOR CONDUCTOR SUPPORTS NEC 300.38

CONDUCTOR SIZE	SUPPORTS FOR CONDUCTORS IN RACEWAYS		SUPPORTS FOR CONDUCTORS IN RACEWAYS	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
14 AWG through 12 AWG	18"	36"	18"	36"
10 AWG through 6 AWG	18"	36"	18"	36"
4 AWG through 2 AWG	18"	36"	18"	36"
1/2" through 3/4"	18"	36"	18"	36"

METHODS OF SUPPORTING CONDUCTORS

METHOD	MINIMUM		MAXIMUM	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
1. Support by metal plate	1/8"	1/8"	1/8"	1/8"
2. Support by metal plate	1/8"	1/8"	1/8"	1/8"
3. Support by metal plate	1/8"	1/8"	1/8"	1/8"

MINIMUM COVER REQUIREMENTS, 600 VOLT, MINORAL, SIGNAL, OR MULTICORE & SERVICE

UNDERGROUND CABLES NEC 300.50

Underground cables shall be installed in accordance with the following:

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TYPE OF WIRING METHOD TO BE USED	COLUMN 1		COLUMN 2		COLUMN 3		COLUMN 4	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
Underground cables	18"	36"	18"	36"	18"	36"	18"	36"
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TYPE OF WIRING METHOD TO BE USED	COLUMN 1		COLUMN 2		COLUMN 3		COLUMN 4	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
Underground cables	18"	36"	18"	36"	18"	36"	18"	36"
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Reviews

If you need to adding benefit, a must buy book. It really is writter in straightforward words and phrases rather than difficult to understand. Your life period is going to be change the instant you total reading this ebook.
(Letha Okuneva)

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