

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

**ELECTRICAL WIRING**  
BOOK OF THE NATIONAL ELECTRICAL CODE  
 WIRING METHODS & MATERIALS

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**GENERAL REQUIREMENTS FOR ALL WIRING - SIZES & CLEARANCES**

**PROTECTION AGAINST PHYSICAL DAMAGE** NEC 300.45

Conductors, raceways and cables supported and protected vertically, must be protected against physical damage.

**Cable or raceway edge** passing through bored holes in joists, rafters, or wood members

- Edge must be rounded to a radius of 1/8" or less and must be 1/8" from the nearest edge of the hole.
- Must be 1/8" from the nearest edge of the hole.
- Must be 1/8" from the nearest edge of the hole.

**Cable or raceway permitted to be laid in notches in wood joists, rafters, or other wood members**

- Must be protected by a cover plate 1/8" thick.
- Must be protected by a cover plate 1/8" thick.

**Nonmetallic sheathed cables passing through factory or field punched, cut or drilled holes or holes in wood**

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**Nonmetallic sheathed cables and Electrical Nonmetallic Tubing that is likely to be punctured by nails or screws**

- Must be protected by a cover plate 1/8" thick.
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**CONDUCTORS IN VERTICAL RACEWAYS - SUPPORT METHODS** NEC 300.37

One of the following methods of support must be used:

- The vertical distance between conductors must not exceed the length of the conductor.
- The vertical distance between conductors must not exceed the length of the conductor.
- The vertical distance between conductors must not exceed the length of the conductor.

**SUPPORTS FOR CONDUCTOR SUPPORTS** NEC 300.37

CONDUCTOR SIZE	SUPPORTS		SUPPORTS		SUPPORTS	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
14 AWG through 12 AWG	12"	18"	12"	18"	12"	18"
10 AWG through 6 AWG	12"	18"	12"	18"	12"	18"
4 AWG through 2 AWG	12"	18"	12"	18"	12"	18"
1/2" through 3/4" EMT	12"	18"	12"	18"	12"	18"
1" through 2" EMT	12"	18"	12"	18"	12"	18"
3" through 6" EMT	12"	18"	12"	18"	12"	18"
8" through 12" EMT	12"	18"	12"	18"	12"	18"

**METHODS OF SUPPORTING CABLES**

CABLE TYPE	METHODS		METHODS		METHODS	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
14 AWG through 12 AWG	12"	18"	12"	18"	12"	18"
10 AWG through 6 AWG	12"	18"	12"	18"	12"	18"
4 AWG through 2 AWG	12"	18"	12"	18"	12"	18"
1/2" through 3/4" EMT	12"	18"	12"	18"	12"	18"
1" through 2" EMT	12"	18"	12"	18"	12"	18"
3" through 6" EMT	12"	18"	12"	18"	12"	18"
8" through 12" EMT	12"	18"	12"	18"	12"	18"

**MINIMUM COVER REQUIREMENTS, 600 VOLT, MINORIAL, SIGNAL, OR MULTICORE & SERVICE**

**UNDERGROUND CABLES** NEC 300.5

Underground cables shall be installed in accordance with the following:

- Cables shall be installed in accordance with the following:
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TYPE OF WIRING METHOD OR INSTALLATION	COLUMN 1		COLUMN 2		COLUMN 3	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
Under a building	12"	18"	12"	18"	12"	18"
Under a driveway	12"	18"	12"	18"	12"	18"
Under a sidewalk	12"	18"	12"	18"	12"	18"
Under a parking lot	12"	18"	12"	18"	12"	18"
Under a road	12"	18"	12"	18"	12"	18"
Under a highway	12"	18"	12"	18"	12"	18"
Under a bridge	12"	18"	12"	18"	12"	18"
Under a tunnel	12"	18"	12"	18"	12"	18"

**MINIMUM COVER REQUIREMENTS, 600 VOLT, MINORIAL, SIGNAL, OR MULTICORE & SERVICE**

TYPE OF WIRING METHOD OR INSTALLATION	COLUMN 1		COLUMN 2		COLUMN 3	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
Under a building	12"	18"	12"	18"	12"	18"
Under a driveway	12"	18"	12"	18"	12"	18"
Under a sidewalk	12"	18"	12"	18"	12"	18"
Under a parking lot	12"	18"	12"	18"	12"	18"
Under a road	12"	18"	12"	18"	12"	18"
Under a highway	12"	18"	12"	18"	12"	18"
Under a bridge	12"	18"	12"	18"	12"	18"
Under a tunnel	12"	18"	12"	18"	12"	18"

Filesize: 1023.19 KB

## Reviews

*This created publication is wonderful. This can be for those who statte that there had not been a worth looking at. Your lifestyle period will probably be transform when you comprehensive looking at this book.*  
 (Chelsey Nicolas)

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