

## CHAPTER 5 – BUILDINGS AND BUILDING REGULATIONS

### Section 5-41. National Electrical Code – Adopted and Amended

- (A) A certain documents, one copy of which is on file in the City Clerk’s Office of the City of Peoria, being marked and designated as “National Electrical Code, 2014 Edition,” published by the National Fire Protection Association is hereby adopted, as amended herein, as the Electrical Code of the City of Peoria.
- (B) The National Electrical Code, 2014 Edition, is amended as follows:

(1) Article 210 “Branch Circuits”, is hereby amended as follows:

#### **210.8 Ground-Fault Circuit-Interrupter Protection for Personnel.**

**(B)Other Than Dwelling Units.** All 125-volt, single-phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(B)(1) through (8) shall have ground-fault circuit-interrupter protection for personnel.

**(6)** Indoor damp and wet locations

(2) Article 250 “Grounding and Bonding”, is hereby amended as follows:

#### **250.118 Types of Equipment Grounding Conductors.**

The equipment grounding conductor run with or enclosing the circuit conductors shall be one or more or a combination of the following:

- (1) A copper, aluminum, or copper-clad aluminum conductor. This conductor shall be solid or stranded; insulated, covered, or bare; and in the form of a wire or a busbar of any shape.
- (2) Rigid metal conduit.
- (3) Intermediate metal conduit.
- (4) Electrical metallic tubing with an additional equipment grounding conductor.
- (5) Listed flexible metal conduit meeting all the following conditions:
  - a. The conduit is terminated in listed fittings.
  - b. The circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.
  - c. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).
  - d. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.
- (6) Listed liquidtight flexible metal conduit meeting all the following conditions:
  - a. The conduit is terminated in listed fittings.

- b. For metric designators 12 through 16 (trade sizes 3/8 through 1/2), the circuit conductors contained in the conduit are protected by overcurrent devices rated at 20 amperes or less.
- c. For metric designators 21 through 35 (trade sizes 3/4 through 1-1/4), the circuit conductors contained in the conduit are protected by overcurrent devices rated not more than 60 amperes and there is no flexible metal conduit, flexible metallic tubing, or liquidtight flexible metal conduit in trade sizes metric designators 12 through 16 (trade sizes 3/8 through 1/2) in the ground-fault current path.
- d. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).
- e. If used to connect equipment where flexibility is necessary to minimize the transmission of vibration from equipment or to provide flexibility for equipment that requires movement after installation, an equipment grounding conductor shall be installed.

- (7) Flexible metallic tubing where the tubing is terminated in listed fittings and meeting the following conditions:
  - a. The circuit conductors contained in the tubing are protected by overcurrent devices rated at 20 amperes or less.
  - b. The combined length of flexible metal conduit and flexible metallic tubing and liquidtight flexible metal conduit in the same ground-fault current path does not exceed 1.8 m (6 ft).
- (8) Armor of Type AC cable as provided in 320.108.
- (9) The copper sheath of mineral-insulated, metal-sheathed cable.
- (10) Type MC cable that provides an effective ground-fault current path in accordance with one or more of the following:
  - a. It contains an insulated or uninsulated equipment grounding conductor in compliance with 250.118(1)
  - b. The combined metallic sheath and uninsulated equipment grounding/bonding conductor of interlocked metal tape-type MC cable that is listed and identified as an equipment grounding conductor
  - c. The metallic sheath or the combined metallic sheath and equipment grounding conductors of the smooth or corrugated tube-type MC cable that is listed and identified as an equipment grounding conductor
- (11) Cable trays as permitted in 392.10 and 392.60.
- (12) Cablebus framework as permitted in 370.3.
- (13) Other listed electrically continuous metal raceways and listed auxiliary gutters.
- (14) Surface metal raceways listed for grounding

(3) Article 334, “Nonmetallic-Sheathed Cables: Types NM, NMC, and NMS”, is hereby amended as follows:

**334.10 Uses Permitted.**

Type NM, Type NMC, and Type NMS cables shall be permitted to be used in the following, except as prohibited in 334.12:

(1) One- and two-family dwellings and their attached or detached garages, and their storage buildings.

(2) Multifamily dwellings permitted to be of Types III, IV, and V construction

~~(3) Other dwelling unit accessory buildings and structures permitted to be of Types III, IV, and V construction. Cables shall be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute fire rating as identified in listings of fire-rated assemblies. in accordance with 334.10(1) and (2) and other provisions of this Code.~~

Informational Note No. 1: Types of building construction and occupancy classifications are defined in NFPA 220-2012, *Standard on Types of Building Construction*, or the applicable building code, or both.

Informational Note No. 2: See Informative Annex E for determination of building types [NFPA 220, Table 3-1].

(4) Cable trays in structures permitted to be Types III, IV, or V in accordance with 334.10(1) and (2) where the cables are identified for the use.

Informational Note: See 310.15(A)(3) for temperature limitation of conductors.

(5) Types I and II construction in accordance with 334.10(1) and (2) where installed within raceways permitted to be installed in Types I and II construction.

**(A) Type NM.** Type NM cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations ~~except as prohibited in 334.10(3)~~

(2) To be installed or fished in air voids in masonry block or tile walls

**(B) Type NMC.** Type NMC cable shall be permitted as follows:

(1) For both exposed and concealed work in dry, moist, damp, or corrosive locations ~~except as prohibited in 334.10(3)~~

(2) In outside and inside walls of masonry block or tile

(3) In a shallow chase in masonry, concrete, or adobe protected against nails or screws by a steel plate at least 1.59 mm (1/16 in.) thick and covered with plaster, adobe, or similar finish

**(C) Type NMS.** Type NMS cable shall be permitted as follows:

(1) For both exposed and concealed work in normally dry locations ~~except as prohibited in 334.10(3)~~

(2) To be installed or fished in air voids in masonry block or tile walls

### **334.12 Uses Not Permitted.**

**(A) Types NM, NMC, and NMS.** Types NM, NMC, and NMS cables shall not be permitted as follows:

(1) In any dwelling or structure not specifically permitted in 334.10(1), (2), and

(3)

~~(2) Exposed in dropped or suspended ceilings in other than one- and two-family and multifamily dwellings~~

~~(3) (2) As service-entrance cable~~

~~(4) In commercial garages having hazardous (classified) locations as defined in 511.3~~

~~(5) In theaters and similar locations, except where permitted in 518.4(B)~~

~~(6) In motion picture studios~~

~~(7) In storage battery rooms~~

~~(8) (3) In hoistways or on elevators or escalators~~

~~(9) (4) Embedded in poured cement, concrete, or aggregate~~

~~(10) In hazardous (classified) locations, except where permitted by the following:  
a. 501.10(B)(3)~~

~~b. 502.10(B)(3)~~

~~e. 504.20~~

**(B) Types NM and NMS.** Types NM and NMS cables shall not be used under the following conditions or in the following locations:

- (1) Where exposed to corrosive fumes or vapors
- (2) Where embedded in masonry, concrete, adobe, fill, or plaster
- (3) In a shallow chase in masonry, concrete, or adobe and covered with plaster, adobe, or similar finish
- (4) In wet or damp locations