

(E) Energy Storage or Backup Power System Requirements. Energy storage or backup power supplies shall not be required.

(F) Voltage and Frequency Control. The stand-alone power sources shall be controlled during operation so that voltage and frequency are supplied within limits compatible with the connected loads.

N (E) Cable Trays. Cable tray installations shall comply with Parts I and II of Article 392.

N (F) Instrumentation Tray Cable. Circuits wired using instrumentation tray cable shall comply with 335.1 and 335.4 through 335.9.

N (G) Raceways or Sleeves Exposed to Different Temperatures. Section 300.7(A) shall apply.

Condensation often forms in raceways that run between spaces of differing temperatures, such as a walk-in cooler or freezer. Section 722.3(G) brings the requirements of 300.7(A) into Article 722.

See also

300.7(A) and its associated commentary

N (H) Vertical Support for Fire-Resistive Cables and Conductors. Vertical installations of circuit integrity (CI) cables and conductors installed in a raceway or conductors and cables of electrical circuit protective systems and fire resistive-cable systems shall be installed in accordance with 300.19.

N (I) Installation of Cables with Other Systems. Section 300.8 shall apply.

N (J) Corrosive, Damp, or Wet Locations. The installation of power-limited cables shall comply with the applicable requirements in 110.11, 300.5(B), 300.6, 300.9, and 310.10(F) when installed in corrosive, damp, or wet locations.

N (K) Cable Routing Assemblies. Cables installed in cable routing assemblies shall be selected in accordance with Table 800.154(c), listed in accordance with 800.182, and installed in accordance with 800.110(C)(1), 800.110(C)(2), and 800.113.

N (L) Communications Raceways. Cables communications raceways shall be selected in accordance with Table 800.154(b), listed in accordance with 800.182, and installed in accordance with 800.113 and 362.24 through 362.56, where the requirements applicable to electrical nonmetallic tubing (ENT) apply.

N (M) Temperature Limitation of Cables. The requirements of 310.14(A)(3) on the temperature limitation of conductors shall apply to power-limited circuit cables and fault-managed power cables.

N (N) Identification of Equipment Grounding Conductors. Equipment grounding conductors shall be identified in accordance with 250.119.

Exception: Cables that do not contain an equipment grounding conductor shall be permitted to use a conductor with green insulation, or green insulation with one or more yellow stripes, for other than equipment grounding purposes.

N (O) Specific Requirements. As appropriate, the installation of wires and cables shall also comply with the following:

- (1) Class 2 and Class 3 cables — Part II of Article 725
- (2) Class 4 cables — Part IV of Article 726

ARTICLE 722

Cables for Power-Limited Circuits and Fault-Managed Power Circuits

N Part I. General

N 722.1 Scope. This article covers the general requirements for the installation of single- and multiple-conductor cables used in Class 2 and Class 3 power-limited circuits, power-limited fire alarm (PLFA) circuits, and Class 4 fault-managed power circuits.

To remove redundancy throughout most of Chapter 7, Code-Making Panel No. 3 (CMP-3) consolidated all general cable requirements into a new Article 722. The intent of this consolidation is to help with clarity and usability of the *NEC*® while making room for future technologies as they evolve.

N 722.3 Other Articles. In addition to the requirements of this article, installation of cables shall comply with the articles or sections listed in 722.3(A) through (O). Only those sections of Article 300 referenced in this article shall apply.

N (A) Installation of Cables and Conductors in Raceway. The number and size of conductors and cables, as well as raceway sizing, shall comply with 300.17.

N (B) Spread of Fire or Products of Combustion. Installation of power-limited circuits shall comply with 300.21.

N (C) Ducts, Plenums, and Other Air-Handling Spaces. Power-limited circuits installed in ducts, plenums, or other space used for environmental air shall comply with 300.22.

Exception No. 1: Cables selected in accordance with Table 722.135(B) and installed in accordance with 300.22(B), Exception shall be permitted to be installed in ducts specifically fabricated for environmental air.

Exception No. 2: Cables selected in accordance with Table 722.135(B) shall be permitted to be installed in other spaces used for environmental air (plenums).

N (D) Cables in Ducts for Dust, Loose Stock, or Vapor Removal. Section 300.22(A) for wiring systems shall apply.

Exception: Nonconductive optical fiber cables shall be permitted in ducts used for dust, loose stock, or vapor removal.