



# NATIONAL FIRE PROTECTION ASSOCIATION

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## MEMORANDUM

(AMENDMENT)

**TO:** Code-Making Panel 16

**FROM:** Sarah Caldwell, *Committee Administrator*

**DATE:** June 15, 2022

**SUBJECT:** Amendment 70-48 Ballot on the Proposed 2023 Edition of the National Electrical Code®

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At the NFPA Technical Meeting (Tech Session) held June 9, 2022, the NEC® was amended by the acceptance of the following:

**Amendment 70-48: Reject Second Correlating Revision No. 110**

Following the actions of the membership at the NFPA Tech Session, the attached Amendment Ballot Text is being submitted for ballot of the Technical Committee pursuant to Section 4.6 and Table 1 of the *Regulations Governing the Development of NFPA Standards*.

Ballots can be accessed through the following link: [NFPA Ballot Link](#). Please complete the ballot on or before **June 22, 2022 by 11:59PM (ET)**.

**IMPORTANT NOTE: A comment must be included. If you vote Agree, simply add “Agree” to the comment field. A Disagree or Abstain vote requires a comment.**

**REMINDER:** You must hit **SUBMIT** to **SAVE** your work. **The system session will time you out after 60 minutes; any work not submitted at that time will not be saved!** You may return to finish or change your ballot at any time up to the closing date. Ballot comments exceeding 4,000 characters must be submitted in a Word document via email, to Sarah Caldwell at [scaldwell@nfpa.org](mailto:scaldwell@nfpa.org).

The transcripts from the Annual 2022 NFPA Tech Session are available at: [www.nfpa.org/techsession](http://www.nfpa.org/techsession).

***The return of ballots is required by the Regulations Governing the Development of NFPA Standards.***

## **AMENDMENT BALLOT No. 70-48**

### **Code-Making Panel 16 on National Electrical Code®**

### **NFPA 70, *National Electrical Code*®**

**June 8-9, 2022**

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**IF YOU AGREE TO SUPPORT AMENDMENT 70-48 as recommended by the NFPA membership by vote at Tech Session, the recommended text reads as follows (*changes shown legislatively to the Second Draft*):**

#### **770.113 Installation of Optical Fiber Cables.**

Installation of optical fiber cables shall comply with 770.113(A) through (J). Installation of raceways and cable routing assemblies shall comply with 770.110.

#### **(A) Listing.**

Optical fiber cables installed in buildings shall be listed in accordance with 770.179 and installed in accordance with the limitations of the listing.

*Exception: Optical fiber cables that are installed in compliance with 770.48 shall not be required to be listed.*

#### **(B) Ducts Specifically Fabricated for Environmental Air.**

Installations of optical fiber cables in ducts specifically fabricated for environmental air shall be in accordance with 770.113(B)(1) and (B)(2).

#### **(1) Uses Permitted.**

The following cables shall be permitted in ducts specifically fabricated for environmental air as described in 300.22(B) if they are directly associated with the air distribution system:

- (1) Up to 1.22 m (4 ft) of Types OFNP and OFCP
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in raceways that are installed in compliance with 300.22(B)

Informational Note: For information on fire protection of wiring installed in fabricated ducts, see NFPA 90A-2018, *Standard for the Installation of Air-Conditioning and Ventilating Systems*.

#### **(2) Uses Not Permitted.**

Types OFNR, OFCR, OFNG, OFCG, OFN, and OFC shall not be permitted to be installed in ducts specifically fabricated for environmental air as described in 300.22(B).

Informational Note: See NFPA 90A-2021, *Standard for the Installation of Air-Conditioning and Ventilating Systems*, for information on fire protection of wiring installed in fabricated ducts.

#### **(C) Other Spaces Used for Environmental Air (Plenums).**

Installations of optical fiber cables in other spaces used for environmental air shall be in accordance with 770.13(C)(1) and (C)(2).

**(1) Uses Permitted.**

The following cables shall be permitted in other spaces used for environmental air as described in 300.22(C):

- (1) Types OFNP and OFCP
- (2) Types OFNP and OFCP installed in plenum communications raceways
- (3) Types OFNP and OFCP installed in plenum cable routing assemblies
- (4) Types OFNP and OFCP supported by open metal cable tray systems
- (5) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in raceways that are installed in compliance with 300.22(C)
- (6) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC supported by solid bottom metal cable trays with solid metal covers in other spaces used for environmental air (plenums), as described in 300.22(C)
- (7) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in plenum riser and general-purpose communications raceways supported by solid bottom metal cable trays with solid metal covers in other spaces used for environmental air (plenums), as described in 300.22(C)

**(2) Uses Not Permitted.**

Types OFNR, OFCR, OFNG, OFCG, OFN, and OFC shall not be permitted to be installed in other spaces used for environmental air (plenums).

Informational Note: See NFPA 90A-2018, *Standard for the Installation of Air-Conditioning and Ventilating Systems*, for information on fire protection of wiring installed in other spaces used for environmental air.

**(D) Risers — Cables in Vertical Runs.**

Installations of optical fiber cables in vertical runs shall be in accordance with 770.113(D)(1) and (D)(2).

**(1) Uses Permitted.**

The following cables shall be permitted in vertical runs penetrating one or more floors and in vertical runs in a shaft:

- (1) Types OFNP, OFCP, OFNR, and OFCR
- (2) Types OFNP, OFCP, OFNR, and OFCR installed in the following:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies

**(2) Uses Not Permitted.**

Types OFNG, OFCG, OFN, and OFC shall not be permitted to be installed in vertical runs.

Informational Note: See 770.26 for firestop requirements for floor penetrations.

**(E) Risers — Cables Permitted in Metal Raceways.**

The following cables shall be permitted in metal raceways in a riser having firestops at each floor:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways (innerduct)
  - b. Riser communications raceways (innerduct)
  - c. General-purpose communications raceways (innerduct)

Informational Note: See 770.26 for firestop requirements for floor penetrations.

**(F) Risers — Cables Permitted in Fireproof Shafts.**

The following cables shall be permitted to be installed in fireproof riser shafts having firestops at each floor:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies

Informational Note: See 770.26 for firestop requirements for floor penetrations.

**(G) Risers — Cables Permitted in One- and Two-Family Dwellings.**

The following cables shall be permitted in one- and two-family dwellings:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies

**(H) Cable Trays — Cables Permitted.**

The following cables shall be permitted to be supported by cable trays:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways
  - b. Riser communications raceways
  - c. General-purpose communications raceways

**(I) Distributing Frames and Cross-Connect Arrays — Cables Permitted.**

The following cables shall be permitted to be installed in distributing frames and cross-connect arrays:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies

**(J) Other Building Locations — Cables Permitted.**

The following cables shall be permitted to be installed in building locations other than the locations covered in 770.113(B) through (I):

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in the following:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies
- (3) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in a raceway of a type recognized in Chapter 3

*\*Note: This motion is seeking to restore the text in Article 770 which was determined by the Correlating Committee as redundant: this information is now contained in new Article 722, among other requirements. For this reason, the Correlating Committee took action to remove the text through SCR 110. Disagreeing with the floor amendment will yield a result of 770.113 being deleted with no changes to Article 722.*

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**IF YOU DISAGREE WITH THE RECOMMENDATION FOR AMENDMENT 70-48 by the NFPA membership by vote at Tech Session, the recommended text (i.e. previous edition text) is shown clean below. If no previous edition text exists, the text supported by the membership vote is simply deleted.**

**770.113 Installation of Optical Fiber Cables.**

Installation of optical fiber cables shall comply with 770.113(A) through (J). Installation of raceways and cable routing assemblies shall comply with 770.110.

**770.113(A) Listing.**

Optical fiber cables installed in buildings shall be listed in accordance with 770.179 and installed in accordance with the limitations of the listing.

*Exception: Optical fiber cables that are installed in compliance with 770.48 shall not be required to be listed.*

**770.113(B) Ducts Specifically Fabricated for Environmental Air.**

The following cables shall be permitted in ducts specifically fabricated for environmental air as described in 300.22(B) if they are directly associated with the air distribution system:

- (1) Up to 1.22 m (4 ft) of Types OFNP and OFCP
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in raceways that are installed in compliance with 300.22(B)

Informational Note: For information on fire protection of wiring installed in fabricated ducts, see NFPA 90A-2018, *Standard for the Installation of Air-Conditioning and Ventilating Systems*.

**770.113(C) Other Spaces Used for Environmental Air (Plenums).**

The following cables shall be permitted in other spaces used for environmental air as described in 300.22(c):

- (1) Types OFNP and OFCP
- (2) Types OFNP and OFCP installed in plenum communications raceways
- (3) Types OFNP and OFCP installed in plenum cable routing assemblies
- (4) Types OFNP and OFCP supported by open metal cable tray systems

(5) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in raceways that are installed in compliance with 300.22(C)

(6) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC supported by solid bottom metal cable trays with solid metal covers in other spaces used for environmental air (plenums), as described in 300.22(C)

(7) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in plenum communications raceways, riser communications raceways, or general-purpose communications raceways or supported by solid bottom metal cable trays with solid metal covers in other spaces used for environmental air (plenums), as described in 300.22(C)

Informational Note: For information on fire protection of wiring installed in other spaces used for environmental air, see NFPA 90A-2018, *Standard for the Installation of Air-Conditioning and Ventilating Systems*.

#### **770.113(D) Risers — Cables in Vertical Runs.**

The following cables shall be permitted in vertical runs penetrating one or more floors and in vertical runs in a shaft:

- (1) Types OFNP, OFCP, OFNR, and OFCR
- (2) Types OFNP, OFCP, OFNR, and OFCR installed in:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies

Informational Note: See 770.26 for firestop requirements for floor penetrations.

#### **770.113(E) Risers — Cables and Innerducts in Metal Raceways.**

The following cables and innerducts shall be permitted in metal raceways in a riser having firestops at each floor:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:
  - a. Plenum communications raceways (innerduct)
  - b. Riser communications raceways (innerduct)
  - c. General-purpose communications raceways (innerduct)

Informational Note: See 770.26 for firestop requirements for floor penetrations.

#### **770.113(F) Risers — Cables in Fireproof Shafts.**

The following cables shall be permitted to be installed in fireproof riser shafts having firestops at each floor:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies

Informational Note: See 770.26 for firestop requirements for floor penetrations.

**770.113(G) Risers — One- and Two-Family Dwellings.**

The following cables shall be permitted in one- and two-family dwellings:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies

**770.113(H) Cable Trays.**

The following cables shall be permitted to be supported by cable trays:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:
  - a. Plenum communications raceways
  - b. Riser communications raceways
  - c. General-purpose communications raceways

**770.113(I) Distributing Frames and Cross-Connect Arrays.**

The following cables shall be permitted to be installed in distributing frames and cross-connect arrays:

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:

- a. Plenum communications raceways
- b. Plenum cable routing assemblies
- c. Riser communications raceways
- d. Riser cable routing assemblies
- e. General-purpose communications raceways
- f. General-purpose cable routing assemblies

**770.113(J) Other Building Locations.**

The following cables shall be permitted to be installed in building locations other than the locations covered in 770.113(B) through (I):

- (1) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC
- (2) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in:
  - a. Plenum communications raceways
  - b. Plenum cable routing assemblies
  - c. Riser communications raceways
  - d. Riser cable routing assemblies
  - e. General-purpose communications raceways
  - f. General-purpose cable routing assemblies
- (3) Types OFNP, OFCP, OFNR, OFCR, OFNG, OFCG, OFN, and OFC installed in a raceway of a type recognized in Chapter 3