



**Fast-Track Revision 2023-3  
to the  
National Electrical Safety Code  
C2-2023**

<day month year>

A Fast-Track Revision to C2, National Electrical Safety Code, 2023 Edition, has been issued as a result of a Change Proposal submitted by an NESC Working Group and approved by the Main Committee (in accordance with Section 6.5 of its Procedures).

Change Proposals approved by the Main Committee through the Fast-Track Process shall be submitted by the Secretariat as a Change Proposal for the next Standard Revision cycle. The Change Proposal is to be identified as Approved by the Fast-Track Process and is open to full review in the Standard Revision Cycle.

NOTE—The editing instructions define how to merge the revised material into the 2023 National Electrical Safety Code. Instruction is shown in *bold italic* as change, delete, insert, or replace and specifies the location of the updated material. *Change* is used to make changes in text or tables (i.e., strikethrough to remove old material and underline to add new material). *Delete* removes existing material. *Insert* adds new material without disturbing the existing material. Insertions may require renumbering. If so, renumbering instructions are given in the editing instruction. *Replace* is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one.

**Section 22.  
Relations between various classes of  
lines and equipment**

**224. Communication circuits located within the supply space and supply circuits located within the communication space**

*Change Rule 224B2a as follows:*

B. Supply circuits used exclusively in the operation of communication circuits

Circuits used for supplying power solely to apparatus forming part of a communications system shall be installed as follows:

1. Open-wire circuits shall have the grades of construction, clearances, insulation, etc., prescribed elsewhere in these rules for supply or communication circuits of the voltage concerned.
2. Special circuits operating at voltages in excess of 90 V ac or 150 V dc and used for supplying power solely to communications equipment may be included in communication cables under the following conditions:
  - a. Such cables shall have a conductive sheath or shield that is effectively grounded.  
EXCEPTION: Fault-Managed Power System (FMPS) cables are permitted to operate without a conductive sheath or shield.
  - b. All circuits in such cables shall be owned or operated by one party and shall be maintained only by qualified personnel.



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- c. Supply circuits included in such cables shall be terminated at points accessible only to qualified personnel.
- d. Communication circuits brought out of such cables, if they do not terminate in a repeater station or terminal office, shall be protected or arranged so that in the event of failure within the cable, the voltage on the communication circuit will not exceed 400 V to ground.
- e. Terminal apparatus for the power supply shall be so arranged that the live parts are inaccessible when such supply circuits are energized.

*EXCEPTION:* The requirements of Rule 224B2 do not apply to communication circuits where the transmitted power does not exceed 150 W.