

- (1) Plenum, riser, and general-purpose cables
- (2) Limited-use cables less than 6 mm (0.25 in.) in diameter
- (3) Plenum, riser, and general-purpose communications raceways
- (4) Plenum, riser, and general-purpose cable routing assemblies
- (5) Communications wires, plenum, riser, and general-purpose cables installed in the following:
 - a. Plenum communications raceways
 - b. Riser communications raceways
 - c. General-purpose communications raceways
- (6) Plenum, riser, and general-purpose cables installed in the following:
 - a. Plenum cable routing assemblies
 - b. Riser cable routing assemblies
 - c. General-purpose cable routing assemblies
- (7) Communications wires and plenum, riser, general-purpose, and limited-use cables installed in raceways recognized in Chapter 3
- (8) Type CMUC under-carpet communications wires and cables installed under carpet, modular flooring, and planks
- (9) Hybrid power and communications cable listed in accordance with 800.179

N (2) Uses Not Permitted. The following cables, wires, cable routing assemblies, and communications raceways shall not be installed in one- and two-family dwellings in locations other than those covered in 800.113(B) through (F):

- (1) Types BMU and BLU cables
- (2) Communications wires

N 800.133 Installation of Communications Wires and Cables and CATV-Type Coaxial Cables. Installation of communications wires and cables, from the protector to the equipment, or where no protector is required, communications wires and cables attached to the outside or inside of the building, shall comply with 800.133(A) and 800.133(B). Installation of CATV-type coaxial cables, beyond the point of grounding as defined in 820.93, shall comply with 800.133(A) through (C).

Jackets of coaxial cable do not have sufficient construction specifications to permit them to be installed with electric light, power, Class 1, non-power-limited fire alarm circuits, and medium- and high-power network-powered broadband communications cable. Failure of the cable insulation due to a fault could lead to hazardous voltages being imposed on the Class 2 or Class 3 circuit conductors.

N (A) In Raceways, Cable Trays, Boxes, Cables, Enclosures, and Cable Routing Assemblies.

N (1) Other Circuits. Communications cables and CATV-type coaxial cables shall be permitted in the same raceway, cable tray, box, enclosure, or cable routing assembly together and with jacketed cables of any of the following:

- (1) Class 2 and Class 3 remote-control, signaling, and power-limited circuits in compliance with 645.5(E)(2) or Parts I and II of Article 725
- (2) Power-limited fire alarm systems in compliance with Parts I and III of Article 760
- (3) Nonconductive and conductive optical fiber cables in compliance with Parts I and V of Article 770
- (4) Communications circuits in compliance with Parts I and IV of Articles 800 and 805
- (5) Community antenna television and radio distribution systems in compliance with Parts I and V of Articles 800 and 820
- (6) Low-power network-powered broadband communications circuits in compliance with Parts I and V of Articles 800 and 830

N (2) Class 2 and Class 3 Circuits. Class 1 circuits shall not be run in the same cable with communications circuits. Class 2 and Class 3 circuit conductors shall be permitted in the same listed communications cable with communications circuits.

N (3) Electric Light, Power, Class 1, Non-Power-Limited Fire Alarm, and Medium-Power Network-Powered Broadband Communications Circuits in Raceways, Compartments, and Boxes. Communications wires and cables and CATV-type coaxial cables shall not be placed in any raceway, compartment, outlet box, junction box, or similar fitting with conductors of electric light, power, Class 1, non-power-limited fire alarm, or medium-power network-powered broadband communications circuits.

Exception No. 1: Communications wires and cables and CATV-type coaxial cables shall be permitted to be placed in any raceway, compartment, outlet box, junction box, or other enclosures with conductors of electric light, power, Class 1, non-power-limited fire alarm, or medium-power network-powered broadband communications circuits where all of the conductors of electric light, power, Class 1, non-power-limited fire alarm, and medium-power network-powered broadband communications circuits are separated from all of the communications wires and cables and CATV-type coaxial cables by a permanent barrier or listed divider.

Exception No. 2: Communications wires and cables and CATV-type coaxial cables shall be permitted to be placed in outlet boxes, junction boxes, or similar fittings or compartments with power conductors where such conductors are introduced solely for power supply to the communications and coaxial cable system distribution equipment. The power circuit conductors shall be routed within the enclosure to maintain a minimum 6 mm (1/4 in.) separation from the communications wires and cables and the CATV-type coaxial cables.

Exception No. 3: Separation of circuits shall not be required in elevator traveling cables constructed in accordance with 620.36.