

Δ (B) **Stage or Special Effects and Electrical Equipment Used as Stage Properties.** The wiring for stage effects and electrical equipment used as stage properties shall be permitted to be wired with single- or multiconductor listed flexible cords or cables if the conductors are protected from physical damage and secured to the scenery by approved cable ties or insulated staples. Splices or taps shall be permitted where such are made with listed devices and the circuit is protected at not more than 20 amperes.

(C) **Other Electrical Equipment.** Cords and cables other than extra-hard usage, where supplied as a part of a listed assembly, shall be permitted.

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N (D) **Portable Feeder Cable Penetration of Walls, Floors, or Ceilings.** Portable feeder cables shall be permitted to temporarily penetrate fire-rated walls, floors, or ceilings where all of the following apply:

- (1) The opening is of noncombustible material.
- (2) When in use, the penetration is sealed with a temporary seal of a listed firestop material.
- (3) When not in use, the opening shall be capped with a material of equivalent fire rating.

Δ (E) **Cable Protection.** Cables shall be protected by bushings where they pass through enclosures and shall be arranged so that tension on the cable is not transmitted to the connections. Where power conductors pass through metal, the requirements of 300.20 shall apply.

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N (F) **Special-Purpose Multicircuit Cable Systems.** Special-purpose multicircuit cable systems shall comply with 520.68(D).

Δ **530.23 Overcurrent Protection.** Overcurrent protective devices in production areas shall comply with 530.23(A) through (D).

Δ (A) **Portable Stage Cables.** Overcurrent protection for portable stage cables shall comply with the requirements of 240.5.

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N (B) **Portable Single Conductor Feeder Cables Using Single-Pole Separable Connectors.** Portable feeder cables in production areas shall be protected by means of overcurrent devices set at not more than 400 percent of the ampacity of the cable listed in Table 400.5(A)(2). The maximum load on a single conductor portable feeder cable shall not exceed the cable ampacity in Table 400.5(A)(2).

Δ (C) **DC Plugging Boxes.** Cables and cords supplied through plugging boxes shall include only copper conductors. Cables and cords smaller than 8 AWG shall be attached to a plugging box by means of a plug containing two cartridge fuses or a 2-pole circuit breaker. Plugging boxes shall not be permitted on ac systems. Receptacles in dc plugging boxes shall be rated at not less than 30 amperes.

(D) **Alternating-Current Power Distribution Boxes.** Alternating-current power distribution boxes used in production areas shall contain receptacles of a polarized, grounding type. A feed-through

outlet of the same rating as its supply inlet shall not require overcurrent protection in the equipment. Alternating-current power distribution boxes shall be listed.

Informational Note: See ANSI/UL 1640-2016, *Standard for Portable Power-Distribution Equipment*, for information on alternating-current power distribution boxes.

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N **530.24 Purpose-Built Luminaires, Lighting, and Effects Equipment.** Purpose-built luminaires, lighting, and effects equipment shall not be required to be listed but shall be required to be approved.

Δ **530.26 Portable Luminaires.**

N (A) **Listing.** Portable luminaires shall be listed.

Exception: Portable luminaires used as properties on a motion picture set or television stage set, on a studio stage or lot, or on location shall not be considered portable luminaires for the purpose of this section.

(B) **Portable Enclosed-Arc Luminaires.** Portable enclosed-arc lamps, and associated ballasts shall be listed. Interconnecting cord sets and interconnecting cords and cables for enclosed-arc luminaires shall be of extra-hard usage type and listed.

Informational Note: See ANSI/ESTA E1.16-2007, *Entertainment Technology — Configuration Standard for Metal-Halide Power Cables*, for information on enclosed-arc luminaire interconnecting cord sets and cables.

• N Part III. Portable Equipment in Support Areas

N **530.41 Restricted Public Access.** The electrical equipment used in non-production areas shall be restricted from access by the general public.

N **530.42 Overcurrent Protection for Portable Cable.** Overcurrent protection of conductors for portable cables shall comply with the requirements of 240.5(A).

N **530.43 Portable Generators.**

N (A) **Location.** Portable and vehicle-mounted generators shall be located away from flammable materials, and exhaust shall be vented away from structures and other areas where people might congregate.

N (B) **Ventilation.** Portable and vehicle-mounted generators shall not be operated in areas without natural or provided ventilation to prevent the buildup of exhaust.

N **530.44 Ground-Fault Circuit-Interrupter (GFCI) Protection.**

N (A) **Where GFCI Protection is Required.** In addition to the requirements of 210.8(B), GFCI protection for personnel shall be provided for the following: