

Temporary Stand Lighting

225-6. Conductor Size and Support.

- (a) **Overhead Spans.** Open individual conductors shall not be smaller than the following:
- (1) For 600 volts, nominal, or less, No. 10 copper or No. 8 aluminum for spans up to 50 feet (15.2 m) in length and No. 8 copper or No. 6 aluminum for a longer span, unless supported by a messenger wire.
 - (2) For over 600 volts, nominal, No. 6 copper or No. 4 aluminum where open individual conductors and No. 8 copper or No. 6 aluminum where in cable.
- (b) **Festoon Lighting.** Overhead conductors for festoon lighting shall not be smaller than No. 12 unless supported by messenger wires. In all spans exceeding 40 feet (12.2 m), the conductors shall be supported by messenger wire. The messenger wire shall be supported by strain insulators. Conductors or messenger wires shall not be attached to any fire escape, down spout, or plumbing equipment.

Definition: Festoon lighting is a string of outdoor lights that is suspended between two points.

225-18. Clearance from Ground.

Overhead spans of open conductors and open multiconductor cables of not over 600 volts, nominal, shall conform to the following:

- 10 ft (3.05 m) – above finished grade, sidewalks, or from any platform or projection from which they might be reached where the voltage does not exceed 150 volts to ground and accessible to pedestrians only;
- 12 ft (3.66 m) – over residential property and driveways, and those commercial areas not subject to truck traffic where the voltage does not exceed 300 volts to ground;
- 15 ft (4.57 m) – for those areas listed in the 12 ft classification where the voltage exceeds 300 volts to ground;
- 18 ft (5.49 m) – over public streets, alleys, roads, parking areas subject to truck traffic, driveways on other than residential property, and other land traversed by vehicles such as cultivated, grazing, forest and orchard.

305-3. Time Constraints

- (d) **Removal.** Temporary wiring shall be removed immediately upon completion of construction or purpose for which the wiring was installed.

305-4. General.

- (a) **Services.** Services shall be installed in conformance with Article 230.
- (b) **Feeders.** Feeders shall be protected as provided in Article 240. They shall originate in an approved distribution center. Conductors shall be permitted within cable assemblies or within cords or cables of a type identified in Table 400-4 for hard usage or extra hard usage. For the purpose of this section, Type NM and Type NMC cables shall be permitted to be used in any dwelling, building, or structure without any height limitation.
- (c) **Branch Circuits.** All branch circuits shall originate in an approved power outlet or panelboard. Conductors shall be permitted within cable assemblies, or within multi-conductor cord or cable of a type identified in Table 400-4 for hard usage or extra hard usage. All conductors shall be protected as provided in Article 240. For the purpose of this section, Type NM and Type NMC cables shall be permitted to be used in any dwelling, building, or structure without any height limitation. Wiring shall not be subject to physical damage, and the conductors shall be supported on insulators at intervals of not more than 10 ft (3.05 m); or, for festoon lighting, the conductors shall be arranged so that excessive strain is not transmitted to the lampholders.
- (d) **Receptacles.** All receptacles shall be of grounding type. Unless installed in a continuous grounded metal raceway or metal covered cable, all branch circuits shall contain a separate equipment grounding conductor, and all receptacles shall be electrically connected to the equipment grounding conductors. Receptacles on construction sites shall not be installed on branch circuits which supply temporary lighting. Receptacles shall not be connected to the same ungrounded conductor of multi-wire circuits that supply temporary lighting.
- (e) **Disconnecting Means.** Suitable disconnecting switches or plug connectors shall be installed to permit the disconnection of all ungrounded conductors of each temporary circuit. Multi-wire branch circuits shall be provided with a means to disconnect simultaneously all ungrounded conductors at the power outlet or panel board where the branch circuit originated. Approved handle ties shall be permitted.
- (f) **Lamp Protection.** All lamps for general illumination shall be protected from accidental contact or breakage by a suitable fixture or lamp holder with a guard. Brass shell, paper-lined sockets, or other metal-cased sockets shall not be used unless the shell is grounded.
- (h) **Protection from Accidental Damage.** Flexible cords and cables shall be protected from accidental damage. Sharp corners and projections shall be avoided. When passing through doorways or other pinch points, protection shall be provided to avoid damage.