

## Chapter E 338

SERVICE-ENTRANCE CABLE  
Types ASE, SE and USE

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**E 338.01 Definition.** Service-entrance cable is an assembly of 2 or more conductors, one of which may be uninsulated, provided with a suitable over-all covering, primarily used for services and conforming with one of the following types:

(1) Type ASE, having inherent protection against mechanical abuse and a flame-retardant, moisture-resistant covering.

(2) Type SE, having a flame-retardant, moisture-resistant covering, but not required to have inherent protection against mechanical abuse.

(3) Type USE, recognized for underground use, having a moisture-resistant covering, but not required to have a flame-retardant covering or inherent protection against mechanical abuse.

**History:** Cr. Register, November, 1961, No. 71, eff. 12-1-61.

**E 338.02 Use as service-entrance conductors.** Service-entrance cable used as service-entrance conductors shall be installed as required by chapter E 230.

**History:** Cr. Register, November, 1961, No. 71, eff. 12-1-61.

**E 338.03 Use as branch circuit or feeders.** (1) Service-entrance cables may be used in interior wiring systems where all of the circuit conductors of the cable are of the rubber-covered or thermoplastic type.

(2) Service-entrance cables without individual insulation on the grounded conductor may be used only for range, wall-mounted oven and counter-mounted cooking unit, and clothes dryer circuits, or as feeders from a service cabinet to supply other buildings, or as service-entrance conductors for such other buildings, when the following conditions are met:

(a) The cable has a final non-metallic outer covering.

(b) The supply is alternating current not exceeding 150 volts to ground.

*Note:* The above provisions do not intend to deny the use of service-entrance cable for interior use when the fully insulated conductors are used for circuit wiring and the uninsulated conductor is used for equipment grounding purposes.

(3) Service-entrance cable used to supply appliances shall not be subject to conductor temperatures in excess of the temperature specified for the type of insulation involved.

**History:** Cr. Register, November, 1961, No. 71, eff. 12-1-61.

**E 338.04 Installation methods.** (1) In addition to the provisions of this chapter, service-entrance cable used for interior wiring shall comply with the applicable provisions of chapter E 300.

(2) Cable with metal interlocking armor shall be installed in accordance with the applicable provisions of chapter E 334.

(3) Unarmored cable shall be installed in accordance with the applicable provisions of chapter E 336.

(4) Cables through studs, joists and rafters shall be installed as required in section E 300.08.

**History:** Cr. Register, November, 1961, No. 71, eff. 12-1-61.

**E 338.05 Marking.** Service-entrance cable shall conform with the marking required in section E 310.02. Cable with the neutral conductor smaller than the ungrounded conductors shall be so marked.

**History:** Cr. Register, November, 1961, No. 71, eff. 12-1-61.