

Chapter E 338

SERVICE-ENTRANCE CABLE

Types SE and USE

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E 338.01 Definition. Service-entrance cable is a conductor assembly provided with a suitable overall covering, primarily used for services and of the following types. When consisting of two or more conductors, one may be without individual insulation.

(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, January, 1968, No. 145, eff. 2-1-68.

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.

(1) Type USE service-entrance cable used as service conductors in direct earth burial shall be buried not less than 24 inches below the surface, when supplementary protection from physical injury, such as a covering board, concrete pad, raceway, etc. is not provided.

History: Cr. Register, January, 1968, No. 145, eff. 2-1-68.

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 circuit conductor shall not be used as a branch circuit or as a feeder within a building, except a cable which has a final non-metallic outer covering and when supplied by alternating current at not exceeding 150 volts to ground, may be used: (a) As a branch circuit to supply only a range, wall-mounted oven, counter-mounted cooking unit, or clothes dryer, or (b) as a feeder to supply only other buildings on the same premises. It shall not be used as a feeder terminating within the same building in which it originates.

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.

(4) Type USE service-entrance cable used as branch circuit or feeder conductors in direct earth burial shall be buried not less than 18 inches below the surface, when supplementary protection from physical injury, such as a covering board, concrete pad, raceway, etc. is not provided.

History: Cr. Register, January, 1968, No. 145, eff. 2-1-68.

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

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

History: Cr. Register, January, 1968, No. 145, eff. 2-1-68.

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, January, 1968, No. 145, eff. 2-1-68.