

Coast Guard, DHS

§ 111.60-1

have at least the standard 40 degrees C ambient temperature calibration.

[CGD 74-125A, 47 FR 15236, Apr. 8, 1982, as amended by CGD 94-108, 61 FR 28279, June 4, 1996; 61 FR 33045, June 26, 1996; 62 FR 23908, May 1, 1997]

§ 111.54-3 Remote control.

Remotely controlled circuit breakers must have local manual means of operation.

[CGD 81-030, 53 FR 17847, May 18, 1988]

Subpart 111.55—Switches

§ 111.55-1 General.

(a) Each switch must meet Article 380 of the National Electrical Code.

(b) Each switch that is in the weather must be in a watertight enclosure and be externally operable.

§ 111.55-3 Circuit connections.

The load side of each circuit must be connected to the fuse end of a fused-switch or to the coil end of a circuit breaker, except a generator which is connected to either end of a circuit breaker.

Subpart 111.59—Busways

§ 111.59-1 General.

Each busway must meet article 364 of the NEC.

[CGD 94-108, 61 FR 28280, June 4, 1996]

§ 111.59-3 No mechanical cooling.

A busway must not need mechanical cooling to operate within its rating.

[CGD 94-108, 61 FR 28280, June 4, 1996]

Subpart 111.60—Wiring Materials and Methods

§ 111.60-1 Cable construction and testing.

(a) Each marine shipboard cable must meet all of the construction and identification requirements of either IEEE Std 45, IEC 92-3, IEC 92-350, IEC 92-353, UL 1309, MIL-C-24640A, or MIL-C-24643A (incorporated by reference, see § 110.10-1 of this chapter), and the respective flammability tests contained in them and be of a copper stranded type.

NOTE TO PARAGRAPH (a): MIL-C-915 cable is acceptable only for repairs and replacements in kind. MIL-C-915 cable is no longer acceptable for alterations, modifications, conversions, or new construction. (See § 110.01-3 of this chapter).

(b) Each cable constructed to IEC 92-3 or IEC 92-353 must meet the flammability requirements of IEC 332-3, Category A.

(c) Electrical cable that has a polyvinyl chloride insulation with a nylon jacket (Type T/N) must meet UL 1309 or must meet the requirements for polyvinyl chloride insulated cable in section 18 of IEEE Std 45. If meeting the requirements for polyvinyl chloride insulated cable in IEEE Std 45, section 18, the following exceptions apply—

(1) The thickness of the polyvinyl chloride insulation must meet UL 83 for type THWN wire;

(2) Each conductor must have a nylon jacket;

(3) The thickness of the nylon jacket must meet UL 83 for type THWN wire;

(4) The material of the nylon jacket must meet ASTM D 4066 (incorporated by reference, see § 110.10-1 of this chapter);

(5) The cable must have identification provided by a durable printing or embossing on the cable jacket or a marker under the cable jacket that gives, at intervals not exceeding 610 mm (24 inches), the information required by section 18.8 of IEEE Std 45; and

(6) Type T (T/N) insulations are limited to a 75° C maximum conductor temperature rating.

(d) Electrical cable regardless of construction must meet, at a minimum, all of the performance and marking requirements of section 18 of IEEE Std 45.

(e) Medium voltage electric cable must meet the requirements of IEEE Std 45 and UL 1072, where applicable, for cables rated above 5,000 volts.

(f) Direct current electric cable, for industrial applications only, may be applied in accordance with IADC-DCCS-1/1991.

[CGD 94-108, 61 FR 28280, June 4, 1996, as amended at 62 FR 23908, May 1, 1997; USCG 1999-5151, 64 FR 67182, Dec. 1, 1999; USCG-1999-6096, 66 FR 29911, June 4, 2001]