

Subject 1447

May 30, 2008

SUMMARY OF TOPICS

The following changes in requirements are being proposed:

- 1. Proposal to Delete Obsolete Asbestos and Cotton Insulated Wire Type**
- 2. Proposal to Clarify that Sheet Metal Screws Are Not an Acceptable Means for Securing Grounding or Bonding Conductors to an Enclosure, Per NFPA 70, Article 250.8**
- 3. Proposal to Correct Missing Temperature Rise in Table 29.2**

STP BALLOTS DUE: July 14, 2008

COMMENTS DUE: July 14, 2008

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposal to Delete Obsolete Asbestos and Cotton Insulated Wire Type

RATIONALE

Proposal submitted by: John Stimitz, UL

UL has determined that the following asbestos- or cotton-insulated wire types are referenced in several of its standards: Types AF, CF, A, AA, AI, AIA, AVA, AVL, AVB, AFPD, AFPO, AFS, AFSJ. As these wire types are obsolete, having been removed from both UL's cord and cable standards and the National Electrical Code, ANSI/NFPA-70, UL proposes to delete paragraph 14.1.10 from the Standard.

PROPOSAL

~~14.1.10 Type AF and Type CF wire shall not be used for internal wiring.~~

2. Proposal to Clarify that Sheet Metal Screws Are Not an Acceptable Means for Securing Grounding or Bonding Conductors to an Enclosure, Per NFPA 70, Article 250.8

RATIONALE

Proposal submitted by: John Stimitz, UL

Paragraph 22.2 specifies a screw as an acceptable means for securing equipment-grounding conductors to the frame or enclosure. In the field, grounding conductors are sometimes wrapped around sheet-metal screws as the means of connecting the grounding conductor. This method of connection may not maintain proper grounding over time because the conductor is susceptible to loosening and breakage when subjected to vibration and stress. Therefore, revisions to Paragraph 22.2 are proposed

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to specify that sheet-metal screws shall not be used to secure equipment-grounding conductors to the frame or enclosure. This requirement correlates with Article 250.8 of the National Electrical Code, ANSI/NFPA 70-2005.

PROPOSAL

22.2 An equipment-grounding conductor of a flexible cord:

- a) Shall be green with or without one or more yellow stripes;
- b) Shall be connected to the grounding member of a suitable attachment plug of the grounding type; and
- c) Shall be conductively connected to:
 - 1) All exposed dead metal parts of the lawn mower; and
 - 2) All dead metal parts within the enclosure that are exposed to contact during any user servicing and that are likely to become energized.

The grounding conductor shall be connected by means of a screw or other reliable means not likely to be removed during any servicing operation not involving the power supply cord; solder alone shall not be used for securing this conductor. A sheet metal screw shall not be used for the connection of grounding conductors or connection devices to an enclosure.

3. Proposal to Correct Missing Temperature Rise in Table 29.2

RATIONALE

Proposal submitted by: John Stimitz, UL

The proposal adds missing temperature rises in Table 29.2, item 14.

PROPOSAL

only affected part of Table 29.2 is shown

Table 29.2
Maximum acceptable temperature rises

Materials and component	Degrees	
	C	F
14. Class B insulation systems on coil windings of an a-c motor having a diameter of 7 inches or less (not including a universal motor) and on a vibrator coil: ^{e,f}		
A. In an open motor and on a vibrator coil		
Thermocouple or resistance method	<u>95</u>	<u>171</u>
B. In a totally enclosed motor		
Thermocouple or resistance method	<u>100</u>	<u>180</u>

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