

Subject 3003

July 27, 2018

SUMMARY OF TOPICS

The following topics for the Standard for Distributed Generation Cables, UL 3003, are being recirculated:

1. Proposed First Edition of the Standard for Distributed Generation Cables, UL 3003

COMMENTS DUE: AUGUST 27, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated January 8, 2018 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposed First Edition of the Standard for Distributed Generation Cables, UL 3003

RATIONALE

Responses to comments have been posted within the UL 3003 Proposal Review Work Area dated January 8, 2018.

PROPOSALS

6.1 Only copper, copper-clad aluminum, or an acceptable aluminum alloy shall be used for the conductors in a cable. Soft-annealed copper shall comply with Standard Specification for Soft or Annealed Copper Wire, ASTM B3. Solid aluminum conductors in sizes 12 – 8 AWG (3.31 – 8.37 mm²) shall comply with the requirements for aluminum-wire stock (aluminum-alloy conductor material). All other aluminum conductors shall comply with the requirements for ~~semi-annealed~~ 8000 series aluminum conductors in Requirements for Aluminum Conductors of an 8000 Series Alloy, in UL 1581. Copper-Clad aluminum conductors shall comply with the requirements in Requirements for Copper-Clad Aluminum Conductors, in UL 1581.

6.3 Each 6 – 4/0 AWG and 250 – 1000 kcmil (13.3 – 507 mm²) conductor shall be stranded. An 18 or 16 AWG (0.824 mm² or 1.31 mm²) copper conductor shall comply with the requirements for fixture wire conductors in the Standard for Fixture Wire, UL 66. A 14 AWG (2.08 mm²) or larger copper, or 12 AWG (3.31 mm²) or larger aluminum conductor or copper-clad aluminum shall comply with the requirements in the Standard for Thermoset-Insulated Wires and Cables, UL 44, or in the Standard for Thermoplastic-Insulated Wires and Cables, UL 83, except as modified in this section.

13 Continuity Test of Conductors

13.1 All of the circuit conductors and equipment grounding conductor(s) in the finished cable shall be continuous throughout the entire length of the cable.

13.2 Finished cable shall be tested for continuity of each 18 – 10 AWG (0.824 – 5.26 mm²), circuit and equipment grounding conductor. One hundred percent of the production of each cable containing one or more 18 – 10 AWG (0.824 – 5.26 mm²) conductors shall be tested by the cable manufacturer at the cable factory.

13.3 To determine whether or not the finished cable complies with the requirement in 13.2, each of the 18 – 10 AWG (0.824 – 5.26 mm²) circuit and equipment grounding conductors (one at a time) is to be connected in series with a lamp, buzzer, bell, or other indicator, and a power supply. The conductor is continuous from end to end of the finished cable if the lamp lights, the bell or buzzer sounds, or other indicator signals as intended.

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