UL 486E

STANDARD FOR SAFETY

Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors

UL Standard for Safety for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E

Fifth Edition, Dated September 30, 2015

Summary of Topics

This revision to ANSI/UL 486E dated April 2, 2019 includes the following changes in requirements:

Conductor Insulation Type

The revised requirements are substantially in accordance with Proposal(s) on this subject dated February 8, 2019.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

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Third Edition – December, 1994
Fourth Edition – May, 2009

Fifth Edition

September 30, 2015

This ANSI/UL Standard for Safety consists of the Fifth Edition including revisions through April 2, 2019.

The most recent designation of ANSI/UL 486E as an American National Standard (ANSI) occurred on April 2, 2019. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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CONTENTS

1 Scope

1.1 This Standard applies to equipment wiring terminals for use with all alloys of copper, aluminum, or copper-clad aluminum conductors, in accordance with the National Electrical Code, ANSI/NFPA 70, as follows:

a) equipment wiring terminals intended to hold one or more conductor(s);

b) equipment wiring terminals intended for use in appliances and equipment that comply with the requirements for such appliances and equipment;

c) ampere-rated equipment wiring terminals;

d) horsepower rated equipment wiring terminals; and

e) wire range rated equipment wiring terminals.

1.2 These requirements apply to field wired equipment wiring terminals which are an integral part of the equipment, or are intended for use in specific equipment.

1.3 This Standard is intended for equipment wiring terminals suitable for use with conductors in the size ranges as follows:

a) Aluminum

1) 12 AWG (3.3 mm^2) and 10 AWG (5.3 mm^2) solid; and

2) 12 AWG (3.3 mm^2) to 2 000 kcmil (1 010 mm^2) stranded, Class B concentric, compressed, and compact.

b) Copper-Clad Aluminum

1) 12 AWG (3.3 mm^2) and 10 AWG (5.3 mm^2) solid; and

2) 12 AWG (3.3 mm^2) to 2 000 kcmil (1 010 mm^2) stranded, Class B concentric.

c) Copper

1) 30 AWG (0.05 mm^2) to 10 AWG (5.3 mm^2) solid; and

2) 30 AWG (0.05 mm^2) to 2 000 kcmil (1 010 mm^2) stranded, Class B concentric and compressed, and Class C concentric.

d) Compact-stranded copper conductors for 2 AWG (33.6 mm^2) and larger.

e) Rigid (solid and stranded) metric wire falling within the ranges of the above AWG sizes.

Note: For example, an equipment wiring terminal rated for 6 AWG – 250 kcmil may be additionally rated for 16 – 120 mm^2.

f) Other class and strand configurations as indicated by marking.