UL 183

STANDARD FOR SAFETY

Manufactured Wiring Systems

UL Standard for Safety for Manufactured Wiring Systems, UL 183

Fourth Edition, Dated September 22, 2009

Summary of Topics

This revision to ANSI/UL 183 dated October 26, 2020 is being issued to update the title page to reflect the most recent designation as a Reaffirmed American National Standard (ANS). No technical changes have been made.

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.

The requirements are substantially in accordance with Proposal(s) on this subject dated August 7, 2020.

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Standard for Manufactured Wiring Systems

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This ANSI/UL Standard for Safety consists of the Fourth Edition including revisions through October 26, 2020.

The most recent designation of ANSI/UL 183 as a Reaffirmed American National Standard (ANS) occurred on October 14, 2020. 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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INTRODUCTION

1 Scope

1.1 These requirements cover wiring systems for use in outdoor locations, field-installed wiring assemblies using off-site manufactured subassemblies for branch circuits, remote-control circuits, signaling circuits, and communication circuits in accessible areas. The products covered under this standard are to be installed in accordance with Article 604 of the National Electrical Code, ANSI/NFPA 70.

2 Glossary

2.1 For the purposes of this standard the following definitions apply.

2.2 ACCESSIBLE PART – A part that is:

a) Located so that it can be contacted by a person; or

b) Not recessed the required distance behind an opening.

2.3 BRANCH CIRCUIT– The circuit conductors between the final over-current device protecting the circuit and the outlet(s).

2.4 BRANCH CIRCUIT, MULTIWIRE– A branch circuit that consists of two or more ungrounded conductors that have a voltage between them, and a grounded conductor that has equal voltage between it and each ungrounded conductor of the circuit, and that is connected to the neutral or grounded conductor of the system.

2.5 CLASS 2 CIRCUIT– An isolated secondary circuit involving a potential of not more than 30-volt rms maximum 42.4 volts peak open circuit secondary potential under any condition of loading or open circuit by:

a) An inherently-limited Class 2 transformer;

b) A combination of an isolated transformer secondary winding and a fixed impedance or regulating network that together comply with the performance requirements for an inherently-limited Class 2 transformer;

c) A dry-cell battery having output characteristics not greater than those of an inherently-limited Class 2 transformer;

d) Any combination of (a), (b), and (c) that together comply with the performance requirements for an inherently-limited Class 2 transformer; or

e) One or more combinations of a Class 2 transformer and an overcurrent protective device that together comply with the performance requirements for a noninherently-limited Class 2 transformer.

A circuit derived from a line-connected circuit by connecting impedance in series with the supply circuit as a means of limiting the voltage and current is not considered to be a Class 2 circuit.

2.6 CONTINUOUS PLUG-IN BUSWAY – A continuous plug-in busway is rated at 600V, 40 Amperes or less, has no exposed bus bars, and is intended for general use, including installation within the reach of persons.