



UL 2592

STANDARD FOR SAFETY

Low Voltage LED Wire

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UL Standard for Safety for Low Voltage LED Wire, UL 2592

First Edition, Dated March 9, 2015

Summary of Topics

This is the first edition of the Standard for Safety for Low Voltage LED Wire, ANSI/UL 2592.

The new requirements are substantially in accordance with Proposal(s) on this subject dated October 10, 2014.

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MARCH 9, 2015



ANSI/UL 2592-2015

1

UL 2592

Standard for Low Voltage LED Wire

Prior to the first edition, the requirements for the products covered by this standard were included in the Outline of Investigation for Low Voltage LED Wire, UL 2592.

First Edition

March 9, 2015

This ANSI/UL Standard for Safety consists of the First Edition.

The most recent designation of ANSI/UL 2592 as an American National Standard (ANSI) occurred on March 9, 2015. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, Title Page, or effective date information.

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 <http://csds.ul.com>.

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CONTENTS

INTRODUCTION

1 Scope	4
2 Units of Measurement	4
3 Undated References	4

CONSTRUCTION

4 Materials	4
5 Conductors	5
5.1 General	5
5.2 Metal coating	7
5.3 Separator	7
6 Insulation	8
7 Assembly	10

PERFORMANCE

8 Samples	10
9 Physical Properties Tests	10
10 Routine Voltage Application Test	10
11 Voltage Application at Elevated Temperature	11
12 Extended Voltage Application Test	12
13 Extended Voltage Application After Immersion Test	13
14 Conductor Corrosion Test	13
15 Surface Leakage Test	14
16 VW-1 Flame Test (Required)	14
17 Vertical-Tray Flame Test on Wire Optionally Marked "-VTR"	14
18 FT4/IEEE 1202 Flame Test on Wire Optionally Marked "FT4"	15
19 Sunlight Resistance	15
20 Cold Bend	15
21 U-Bend Test	15
21.1 General	15
21.2 Apparatus	15
21.3 Specimen	16
21.4 Procedure	16
21.5 Examination	16
22 Impact Test for Wire Optionally Marked "-EX"	16
23 Crushing Test for Wire Optionally Marked "-EX"	18
24 Surface Marking	19

MANUFACTURING AND PRODUCTION TESTS

25 Spark Test	19
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MARKING

26 Information on the Wire	19
27 Information on the Tag, Reel, or Carton	20
28 Date of Manufacture	21

INTRODUCTION

1 Scope

1.1 These requirements cover single-conductor and multi-conductor, unjacketed, 18 – 10 AWG (0.807 – 5.16 mm²), low voltage LED wire rated 105°C – 250°C (221°F – 482°F), and 300 or 600 volts, suitable for installation in dry and damp, or wet locations. These wires are for use with signs, outline lighting, and interior lighting where the wire is only connected to the output of the driver to the LED array, is only accessible during user servicing of the sign, and is not required to be additionally enclosed by the sign enclosure, in accordance with the Standard for Electrical Signs, UL 48.

1.2 Assemblies that include these wires and are intended for use as components of signs shall meet the requirements in the Standard for Electric-Sign Components, UL 879.

1.3 Wires that are surface marked “-EX” are for use as exposed runs between a cable tray and utilization equipment where the wires are continuously supported and protected against physical damage using mechanical protection such as struts, angles, or channels.

2 Units of Measurement

2.1 When a value for measurement is followed by a value in other units, the use of either value will provide equivalent results in the application of the requirement.

2.2 In addition to being stated in the inch/pound units that are customary in the USA, each of the requirements in this standard is also stated in units that make the requirement conveniently usable in countries employing the various metric systems (practical SI and customary). Equivalent – although not necessary exactly identical – results are to be expected from applying a requirement in USA or in metric terms. Equipment calibrated in metric units is to be used when a requirement is applied in metric terms.

3 Undated References

3.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

CONSTRUCTION

4 Materials

4.1 Each material used in a wire shall be compatible with all of the other materials used in the wire.