



UL 758

STANDARD FOR SAFETY

Appliance Wiring Material

UL Standard for Safety for Appliance Wiring Material, UL 758

Third Edition, Dated May 2, 2014

Summary of Topics

This revision to ANSI/UL 758 dated January 20, 2021 includes the following changes in requirements:

- Addition of Halogen Free (HF) or Low-Smoke Halogen Free (LSHF) Wire to [51.2](#)***
- Insulation Resistance Test Time, Revised [35.1](#)***

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The revised requirements are substantially in accordance with Proposal(s) on this subject dated November 5, 2021.

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1

UL 758

Standard for Appliance Wiring Material

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Third Edition

May 2, 2014

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through January 20, 2022.

The most recent designation of ANSI/UL 758 as an American National Standard (ANSI) occurred on January 20, 2022. 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

INTRODUCTION

1	Scope	5
2	General	5
2.1	Components	5
2.2	Units of measurement	6
2.3	Undated references	6

CONSTRUCTION

3	General	7
4	Materials	15
5	Conductor	16
5.1	General	16
5.2	Metal	19
5.3	Size and cross-sectional area	28
5.4	Metal coating	28
5.5	Joints	29
5.6	Resistance	29
5.7	Stranding	30
5.8	Separator	33
5.9	Semi-conductive polymeric layer	33
6	Optical Fiber Member(s)	33
6.1	General	33
6.2	Cable composed of both current-carrying conductors and optical-fiber members	33
6.3	Cable composed entirely of optical-fiber members	33
7	Insulation	33
7.1	General	33
7.2	Materials	34
7.3	Thickness	38
8	Coverings	41
9	Fillers	43
10	Binders	43
11	Shield(s)	43
12	Cable Assembly	43
13	Overall Jacket	44
13.1	General	44
13.2	Materials	45
13.3	Thickness	45

PERFORMANCE

TESTS FOR THERMAL AND CHEMICAL PROPERTIES

14	Physical Properties, Unaged and Air Oven Aged	49
15	Physical Properties, Oil Immersion Aging	51
16	Physical Properties, Gasoline Conditioning	52
17	Physical Properties, Sunlight Resistance	53
18	Conductor Corrosion Test	53
19	Deformation Test (Thermoplastics and Class XL Only)	54
20	Flexibility Test of Nylon Covering	55
21	Flexibility Test	56

22	Heat Shock Test (Thermoplastic Materials Only)	57
23	Cold Bend Test	58
24	Delamination Test.....	58
25	Shrinkback Test – Special Rating TV Wires Only.....	59
26	Ozone Resistance Test – Special Rating TV Use Wires Only	59
27	Durability of Ink-Print Test	60

TESTS FOR MECHANICAL PROPERTIES

28	Crush Resistance Test.....	60
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TESTS FOR ELECTRICAL PROPERTIES

29	Dielectric Test, Method I.....	61
30	Dielectric Test, Method II.....	63
31	Dielectric Test, Method III	64
32	High-Voltage DC Wire Dielectric Voltage-Withstand Test, Method I.....	65
33	High-Voltage DC Wire Dielectric Voltage-Withstand Test, Method II.....	66
34	High-Voltage Cut-Through Test, Special Rated TV Wire Only.....	67
35	Short Term Insulation-Resistance Test in Water at Room Temperature (Wet Rated AWM).....	69
36	Long Term Insulation-Resistance Test in Water at Elevated Temperature (Wet Rated AWM) ...	69
37	Temperature Correction Factor (Wet Rated AWM)	72
38	Capacitance and Relative Permittivity Tests (Wet Rated AWM)	74
39	Stability Factor (Wet Rated AWM).....	75

TESTS FOR FLAME PROPERTIES

40	Horizontal Flame Test for Internal Wiring	75
41	Cable Flame Test	75
42	VW-1 Flame Test.....	75
43	FT1 Flame Test	75
44	FT2 Flame Test	76
45	IEC 60332-1 Flame Test	76
46	IEC 60332-2 Flame Test	76

MANUFACTURING AND PRODUCTION TESTS

47	Test for Continuity of Conductors	76
48	Spark Test	77
	48.1 Appliance wiring material constructed of insulating materials other than laminated films and laminated constructions without uninsulated intervals	77
	48.2 Appliance wiring material constructed of laminated film insulating material with uninsulated intervals	78
48A	Cut-Piece Dielectric Voltage Withstand Test	79
49	Production-Line Dielectric Test	79

MARKINGS

50	Surface Marking of AWM	80
51	Markings on Tag, Reel, or Carton.....	81
52	Multiple Markings	83

INTRODUCTION

1 Scope

1.1 These requirements cover Appliance Wiring Material (AWM) in the form of single insulated conductors, multi-conductor cables, optical fibers, individual insulated conductors, and fiber optic members for use as components in multi-conductor cables.

1.2 The appliance wiring material covered by the requirements of this Standard are solely for use as factory-installed wiring either within the overall enclosure of appliances and other equipment (internal wiring) or as external interconnecting cable for appliances (external wiring), or for further processing as components in multi-conductor cables.

1.3 These requirements do not cover any wire, cable, or cord types that are presently covered in the National Electrical Code (NEC), NFPA 70, and are not intended for installation in buildings or structures in accordance with the NEC except within the scope of the installation instructions of the end-product for which their use is intended.

1.4 These requirements cover appliance wiring material with operating temperatures from a minimum 60°C (140°F) dry temperature rating and voltage ratings from a minimum 30-volt rating. Conductor size ranges from 50 AWG to 2000 kcmil. Appliance wiring material (AWM) composed entirely of optical fiber members or electrical conductors in combination with optical fiber members are also covered by these requirements.

1.5 These requirements do not cover the optical performance of any optical-fiber member or group of such members.

1.6 These requirements do not cover constructions which utilize flat, insulated conductors that are not laid parallel. The requirements for these products are found in the Standard for Flexible Materials Interconnect Constructions, UL 796F.

1.7 The evaluation of the performance of the semi-conductive polymeric layer described in [5.9](#) is not covered by this Standard.

1.8 In addition to these constructions, this Standard establishes guidelines for the evaluation of special constructions that, due to their specific end product use, are not required to meet all of the requirements for general construction AWM.

1.9 The final acceptance of AWM is dependent upon its use in complete equipment that conforms with the standards applicable to such equipment.

2 General

2.1 Components

2.1.1 Except as indicated in [2.1.2](#), a component of a product covered by this Standard shall comply with the requirements for that component.

2.1.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.