

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): IYMT, IYMX, IYNA, , IYNE, IYNG, IYNI, IYNS, IYQX

Standard Number: UL 962

Standard Title: Standard for Household and Commercial Furnishings

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Section / Paragraph Reference: 3.10, 10.1.3 Exception No. 4, 12.1 Exception 2, 51.3 - New 12.1 Exception -Revised

Subject: Clarification of Class 2 / LPS Circuits, and insulating materials in direct support with live parts.

DECISION:

2 Glossary

2.12B DIRECT AND INDIRECT CONTACT WITH LIVE PARTS - A non-metallic part is considered in direct contact with a live part when it is touching the live part or is within 1/32 inch (0.8 mm) of the live part. Indirect contact is when a non-metallic part is supporting a material that is in direct contact with the live parts.

3 Components

3.7 Video or audio equipment shall comply with the Standard for Audio, Video, and Similar Electronic Apparatus – Safety Requirements, UL 60065 or Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, UL 62368. Video or audio equipment intended for use in a damp or wet locations shall comply with the tropical humidity requirements in these standards UL 60065.

3.10 Wireless charging pad shall comply with the Standard for Induction Power Transmitters and Receivers for use with Low Energy Products, UL 2738

10 Frame and Enclosure

10.1 General

10.1.3 A part such as a splice, tap, wire, transformer, capacitor, ballast, current-carrying part, or device with an exposed live part shall be contained in an enclosure constructed of metal, glass, ceramic, porcelain, or polymeric material. Such parts shall be contained in the enclosure during normal maintenance and use.

Exception No. 1: A current-carrying part of a wiring device (such as the screw shell and center contact of a lampholder, the lampholder contacts, starter holder contacts, or similar components of a fluorescent luminaire) that are normally fitted with a functional component (a lamp, a starter, or similar component) during use of the furnishing is not required to be additionally enclosed.

Exception No. 2: A component, such as a ballast, that has an integral outer housing that has been evaluated as an enclosure is not required to be additionally enclosed.

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Exception No. 3: A power-supply cord is not required to be contained within the furnishing other than at the connection point to internal components.

Exception No. 4: Components in a Class 2 or LPS circuit do not need to be in an enclosure, but if one is provided it shall comply with Supplement SA3.

10.4 Electrical enclosures of polymeric material

10.4.1 A polymeric material enclosure of electrical parts shall comply with the requirements in the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, as applicable to polymeric enclosures. For Damp Locations, the Resistance to Impact Test of the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C, preconditioning shall be at a temperature of $0 \pm 2.0^{\circ}\text{C}$ ($32 \pm 3.6^{\circ}\text{F}$). For wet locations, the UV Light Exposure and Cold Impact Test of the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C, preconditioning shall be at a temperature of $\text{minus } 35.0 \pm 2.0^{\circ}\text{C}$ ($\text{minus } 31.0 \pm 3.6^{\circ}\text{F}$).

13 Resistance to Moisture and Liquid Damage

17 Internal Wiring

17.1 Conductors

17.1.4 Internal wiring shall consist of wires of a type or types that are determined to meet the requirements for the intended use with respect to flexibility, mechanical abuse, temperature, ampacity, and voltage. Conductors of any cross-sectional-area are permitted when the conductors are in Class 2 or LPS circuits.

17.1.12 Class 2 or LPS wiring not contained within a metal or polymeric enclosure that is intended to be routed within a furnishing shall be of a type suitable for the application (e.g. CL2, CL2P, CL3, CL3P, CL3R, CM, CMP, CMR, PLTC, or other jacketed type cord with a minimum 0.013 inch (0.33 mm) jacket thickness).

33 Electrical Insulation in Direct and Indirect Contact with Live Parts

33.1 Electrical insulation in direct or indirect contact with uninsulated live parts other than magnet wire coating shall be a material investigated and found acceptable in accordance with the electrical insulation requirements of the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL746C. The material shall withstand the most severe conditions likely to be met in service.

Exception: Small parts and adhesives need not be investigated if they are:

a) Not relied upon to maintain the proper functioning of the device with regard to the likelihood of electric shock, fire, and injury to persons; and/or

b) Not relied upon to maintain separation between uninsulated live parts of opposite polarity, live parts, and accessible metal parts and/or uninsulated live parts and earth ground.

33.2 After the conditioning specified in 34.1, conditioning of polymeric components, and upon cooling to room temperature, there shall be no evidence of softening, shrinkage, warpage, or other distortion of parts that results in any of the following:

a) Reduction of spacings between uninsulated live parts of opposite polarity, uninsulated live parts and accessible dead or grounded metal, and uninsulated live parts and the enclosure below the minimum acceptable values;