

STANDARD INFORMATION

Standard: UL Subject 111

Standard ID: Outline of Investigation for Multioutlet Assemblies [UL SUBJECT 111:2021 Ed.7]

Previous Standard ID: Outline of Investigation for Multioutlet Assemblies [UL SUBJECT 111:2018 Ed.6]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **October 1, 2023**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- New requirements for bonding
- New requirements for hinge cycling
- New probe on guard test for motor operated multioutlet assemblies.

Specific details of new/revise requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
8	Info	Electrical Construction
8.3	Info	Bonding
		<i>New clause added;</i>
8.3.7		A living hinge may be used for bonding of two or more sections of an articulated Multioutlet Assembly, intended for folding to allow for shipping and not anticipated to be opened and closed regularly except during shipping and installation, and shall comply with 8.1 – 8.4 and the test in Hinge Cycle, Section 23.
		<i>New section added;</i>
23		Hinge Cycling
23.1		A Multioutlet Assembly raceway consisting of one or more sections for shipping purposes, provided with a living hinge, in the as-received condition, shall be opened from its initial position and closed, for a total of 30 cycles. After the test the metal or nonmetal hinge shall be free from:
23.2		a) functional damage to the hinge and b) from sharp edges, burrs, and fins that are able to damage conductor insulation. Compliance is confirmed by visual inspection and, if necessary, the Standard for Tests for Sharpness of Edges on Equipment, UL 1439.
23.3		After the test a Multioutlet Assembly with a metal living hinges: a) shall not open the equipment grounding/bonding path between any parts of the system; b) shall not have an electrical resistance across the joints exceeding 0.005 Ω when measured in accordance with the electrical resistance test described in 26.2 and SA17.1; and c) shall withstand for 1 min, without breakdown, the test potential specified in 33.1.3. For products employing double insulation, the test potential shall be as specified in 33.1.4. Note: An articulated multioutlet assembly provided with a 10 AWG bonding jumper across its hinged joint is not required to comply with this requirement



CLAUSE	VERDICT	COMMENT
Supplement SB	Info	MOTOR OPERATED MULTIOUTLET ASSEMBLIES
SB9		<i>New section added;</i>
		Probe on Guard Test
SB9.1		The portion of an impeller that entails a risk of injury to persons shall be guarded so that the probe illustrated in Figure SB9.1 does not touch the part when inserted with a force of 4.45 N (1 pound) for a maximum of 5 seconds through any opening in the guard.
SB9.2		During an examination to determine whether a Multioutlet Assembly complies with the requirements specified in SB9.1 the guards and impellers of desk and stand fans are not to be removed before examination.