

Standard Information

Standard Number: UL 498

Standard Name: Attachment Plugs and Receptacles

Standard Edition and Issue Date: 15th Edition Dated March 30, 2012

Date of Revision: May 13, 2016

Date of Previous Revision to Standard: 15th Edition Dated January 20, 2016

Effective Date of New/Revised Requirements

Effective Date (see Schedule below): **March 31, 2017**

Impact, Overview, Fees and Action Required

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes: This revision is being issued to include additional safety requirements addressing receptacles with integral power supplies with one or more Class 2 outputs which employ a separable face assembly and additional requirements for the use of Nonmetallic Sheathed Cable interconnect. Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Schedule: So that shipping of products with Listing Marks will not be interrupted, an **approximate** schedule has been established to ensure Listing Reports are found compliant by Effective Date:

- July 29, 2016 = 8 Month Report Review – Intertek will review all Reports. Update if compliance is verified or issue Findings Letter/Quote for any re-evaluations needed
- September 30, 2016 = 6 Month Quote Cut-off – Quotes returned for necessary re-evaluations
- **March 31, 2017** = Effective Date – ATM Suspended for all non-compliant Reports

Fees: An initial review of Listing Report (s) will be covered by a direct billing project and will be invoiced at not more than \$1000 per report.

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

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.

Description of New/Revised Technical Requirements

Clause	Verdict	Comment
--	--	Additional safety requirements addressing a receptacle with integral power supply with one or more Class 2 outputs which employ a separable face assembly
SUPPLEMENT SF	Info	RECEPTACLES WITH INTEGRAL POWER SUPPLY WITH CLASS 2 OUTPUT CONNECTORS
SF2	Info	Glossary
SF2.3	Info	<i>New clause added;</i> REPLACEMENT PART – An individual replacement part identified by the manufacturer, for use in the same manufacturer’s complete device. Note The replacement part is packaged as a “kit” containing the individual part and installation instructions (See Section SF10A of this Supplement).
SF2.4	Info	<i>New clause added;</i> SEPARABLE FACE ASSEMBLY – A receptacle with integral power supply and associated Class 2 output low-voltage connectors employing a modular face consisting of either: a) ANSI/NEMA slot configuration and Class 2 output connectors, b) Class 2 output connectors, or any c) Other Class 2 component.
--	--	CONSTRUCTION
SF3	Info	General
SF3A	Info	<i>New section added;</i> Separable Face Assembly
SF3A.1		A receptacle with integral power supply with one or more Class 2 outputs that employ a separable face assembly shall be formed and assembled so that it may be installed, in accordance with the installation instructions, into its specified receptacle, without risk of fire or electric shock. Risk of fire or electric shock is determined by compliance with the construction and performance requirements herein and the applicable requirements of the Standard for Attachment Plugs and Receptacles, UL 498.
SF3A.2		A separable face assembly shall not require the installer to remove, defeat, or replace any factory installed securement means (such as a rivet).
SF3A.3		A separable face assembly shall be constructed such that when separated from the receptacle, there shall not be any exposed contact to live parts as determined by the articulate probe with web stop shown in UL 498 Figure 9.1. Exception: With the separable face assembly removed from the receptacle (device), exposed output of the Class 2 power supply may be accessible to contact by the articulate probe with web stop.
SF3A.4		A separable face assembly shall be configured in such a manner (i.e. keyed) to prevent incorrect arrangement or positioning.

Standards Update Notice (SUN)

Issued: May 31, 2016

Clause	Verdict	Comment
SF3A.5		A separable face assembly shall be mechanically secured to the receptacle (device) by a latch or the like to prevent unintentional separation from the receptacle during normal use. The securement means may additionally rely on the flush device cover plate for mechanical support, but not as the sole means of securement to the receptacle (device).
SF3A.6		A separable face assembly that also covers the ANSI/NEMA slot configuration shall be investigated to the applicable UL 498 requirements with and without the separable face assembly secured to the receptacle.
SF3A.7		The Class 2 power supply shall be contained within the receptacle (device) assembly only.
SF3A.8		A separable face assembly may be provided as a replacement part. See Section SF10A for details.
--	--	PERFORMANCE
SF6	Info	General
		<i>New clause added;</i>
SF6.2		A receptacle with integral power supply with one or more Class 2 output low-voltage connectors that employs a separable face assembly shall comply with the applicable requirements of this Standard, with and without separable face assembly installed in place.
--	--	MARKINGS AND INSTRUCTIONS
SF10	Info	User Instructions (General)
		<i>New section added;</i>
SF10A		User Instructions (Separable Face Assembly as a Replacement Part)
SF10A.1		A separable face assembly intended as a replacement part shall be provided with instructions pertaining to its installation.
SF10A.2		An illustration may be used to clarify the intent of a required instruction but shall not replace the written instruction.
		Instructions shall include the following statements or their equivalent: IMPORTANT SAFETY INSTRUCTIONS "WARNING – Use only replacement part (Catalog Number) with Receptacle (+) Only", where (+) is to be substituted with the specific manufacturer name and model / catalog number of the intended device(s)." "WARNING – Risk of Fire or Electric Shock. Do not use this replacement part with any receptacle, other than the one specified on the replacement mark packaging and in these instructions."
SF10A.3		SAVE THESE INSTRUCTIONS
SF10A.4		The opening and closing statements of the instructions specified in SF10A.3 – "IMPORTANT SAFETY INSTRUCTIONS," and "SAVE THESE INSTRUCTIONS," or the equivalent shall be entirely in upper case letters or shall be emphasized to distinguish them from the rest of the text.

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Clause	Verdict	Comment
SF12		<i>New section added;</i> Markings (Separable Face Assembly as a Replacement Part)
SF12.1		A separable face assembly intended as a replacement part shall be provided in the form of a kit, including marking as detailed in Section SF11.
SF12.2		A required marking shall be molded, die-stamped, paint-stenciled, stamped or etched metal that is permanently secured, or indelibly stamped lettering on a pressure-sensitive label secured by adhesive that, upon investigation, meets the intent of the requirement for the application.
SF12.3		The replacement part shall be provided with the following identification markings: a) Manufacturer's name; b) Specific catalog or series number; and c) The date or other dating period of manufacture not exceeding any three consecutive months. Exception: Abbreviation of the date of manufacture, or provision in a nationally accepted conventional code or in a code affirmed by the manufacturer, meets the intent of the requirement.
SF12.4		The replacement part packaging shall be marked with the following marking or equivalent: "WARNING – Use only replacement part (Catalog Number) with (+) Receptacle Only". Where "(+)" is to be substituted with the specific manufacturer name and model / catalog number of the intended device(s).
--	--	Use of Nonmetallic Sheathed Cable Interconnects
SUPPLEMENT SG	Info	RECESSED OUTLET KIT ASSEMBLY
--	--	CONSTRUCTION
SG4	Info	Outlet Box
SG4.3		<i>Additions to existing requirements are <u>underlined</u> below.</i> All power conductor splices and connections of conductors shall be contained within an outlet box or enclosure and shall be accessible after installation. <u>Cable interconnects per Outline for Nonmetallic Sheathed Cable Interconnects, UL 2256, are not permitted outside the outlet box or enclosure.</u>
SG11.5		<i>Additions to existing requirements are <u>underlined</u> below.</i> All splices shall be enclosed within an outlet box or enclosure and be accessible. <u>Cable interconnects per Outline for Nonmetallic Sheathed Cable Interconnects, UL 2256, are not permitted outside the outlet box or enclosure.</u>
		CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.