

STANDARDS UPDATE NOTICE (SUN) ISSUED: June 1, 2018

STANDARD INFORMATION

Standard Number: UL 498

Standard Name: Attachment Plugs and Receptacles

Standard Edition and Issue Date: 16th Edition Dated April 28, 2017

Date of Revision: April 28, 2017

Date of Previous Revision of Standard: 15th Edition Dated July 7, 2016

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: April 28, 2019

IMPACT, OVERVIEW, 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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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:

- Additional requirements for Combination wire binding/pressure-wire terminals
- Additional requirements for enclosures
- New section added for Separable Face Assembly

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).

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT		
		Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.		
	Info	All Devices		
12	Info	Terminals		
		New section added;		
12.5		Combination wire binding/pressure-wire terminals		
12.5.1		A receptacle or inlet employing a combination wire binding/pressure-type terminal shall be limited to 10, 12 or 14 AWG conductors. The terminals shall comply with the applicable performance requirements as specified in the Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E.		
12.5.2		A receptacle or inlet employing a combination wire binding/pressure-wire terminal for connection to copper branch circuit conductors only, shall comply with the general performance requirements for receptacles, as specified in Sections 110 – 125 and 90, Combination Wire Binding/Pressure Wire-Type Terminals, or the general performance requirements for inlets, Sections 85 – 88, and 90 as applicable.		
12.5.3		In addition to the requirements in 12.5.2, a receptacle rated 15 or 20 A and employing a combination wire binding/pressure-type terminal for connection to aluminum branch circuit conductors shall also comply with the CO/ALR Type requirements contained in 35.1.		
	Info	Attachment Plugs and Inlets		
17	Info	Enclosure		
17.1	Info	General		
17.1.4		New cause added; The body of an inlet employing a combination wire binding/pressure wire-type terminal shall employ integrally formed channels/guides within the body to: a) Properly position individual conductor; and b) Provide a means to reduce the likelihood of the conductor(s) being displaced from under the terminal ring when conductor(s) are to be installed. Compliance shall be determined by the Terminal Strength Test, Section 123.		
	Info	Receptacles		
28	Info	Enclosure		



28.2		New clause added;			
		The body of a receptacle employing a combination wire binding/pressure wire-type terminal shall employ integrally formed channels/guides within the body to:			
		a) Properly position individual conductor; and b) Provide a means to reduce the likelihood of the conductor(s) being displaced from under the terminal ring when conductor(s) are to be installed.			
		Compliance shall be determined by the Terminal Strength Test, Section 123.			
	Info	Inlets			
	Info	Pressure Wire Terminals			
		New section added;			
90		Combination Wire Binding/Pressure Wire-Type Terminals			
90.1		In addition to the requirements as specified in Sections 85 – 88, an inlet rated less than 20 A and also employing a combination wire binding/pressure wire-type terminal for field connection to copper branch circuit conductors, intended for mounting in or on an outlet box, shall comply with the Strength of Insulating Base Test, Section 91, and with the applicable performance requirements in the Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E:			
90.2		The copper test conductors to be used in these tests are to be selected in accordance with Table 90.1.			
		Copper test conductor sizes			
Table 00 1		Device rating, A	Conductor size, AWG		
Table 90.1		15	14 solid 14 stranded 12 solid 12 stranded		
		20	12 solid 12 stranded 10 solid 10 stranded		
	Info	Receptacles			
118	Info	Temperature Test			
118.1	Info	Contact and terminal temperature			
		New subclause added;			
118.1.4 c) Ampacities for copper conductors temperature rated at 75°C (167°F) for receptacle rated greater than 30A, and 100 A or less, for use on copper conly and marked in accordance with Table 193.4.		nd 100 A or less, for use on copper conductors			
	Info	Pressure-Wire Terminals			
		New section added;			
127		Combination Wire Binding/Pressure Wire-Type Terminals			



127.1	20 A and also employing a combi for field connection to copper bra Strength of Insulating Base Test, S requirements in the Standard for	In addition to the requirements in Sections 110 – 125, a receptacle rated less than 20 A and also employing a combination wire binding/pressure wire-type terminal for field connection to copper branch circuit conductors shall comply with the Strength of Insulating Base Test, Section 128, and with the applicable performance requirements in the Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E.				
127.2	The copper test conductors to be accordance with Table 127.1.	The copper test conductors to be used in these tests shall be selected in				
	Сорр	Copper test conductor sizes				
	Device rating, A	Conductor size, AWG				
Table 127.1	15 20	14 solid 14 stranded 12 solid 12 stranded 12 solid 12 stranded 10 solid 10 stranded				
Supplement SE	Info RECEPTACLES WITH INTEGRAL PO	RECEPTACLES WITH INTEGRAL POWER SUPPLY WITH CLASS 2 OUTPUT CONNECTORS				
SE4	New section added;					
	Separable Face Assembly	Separable Face Assembly				
SE4.1	employ a separable face assembl installed, in accordance with the receptacle, without risk of fire or determined by compliance with t	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.				
SE4.2	· · · · · · · · · · · · · · · · · · ·	A separable face assembly shall not require the installer to remove, defeat, or replace any factory installed securement means (such as a rivet).				
SE4.3	receptacle, there shall not be any the articulate probe with web sto	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				
	by the articulate probe with web	(device), exposed output of the Class 2 power supply may be accessible to contact by the articulate probe with web stop.				
SE4.4		A separable face assembly shall be configured in such a manner (i.e. keyed) to prevent incorrect arrangement or positioning.				
A separable face assembly shall be mechanically secured to the receptacle (deceptace) 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).						



SE4.6	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.
SE4.7	The Class 2 power supply shall be contained within the receptacle (device) assembly only.
SE4.8	A separable face assembly may be provided as a replacement part. See Section SE14, User Instructions (Separable Face Assembly as a Replacement Part), for details.
	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.