

STANDARD INFORMATION

Standard: UL 498

Standard ID: Attachment Plugs and Receptacles [UL 498:2017 Ed.16+R:11Aug2020]

Previous Standard ID: Attachment Plugs and Receptacles [UL 498:2017 Ed.16+R:27May2020]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 11, 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.

Overview of Changes:

- Changes in requirements for connectors with latching mechanisms
- New requirements for high ambient temperature for 15 & 20 A straight blade receptacles

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 |
|--------|---------|---|
| | | <i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i> |
| | Info | RECEPTACLES |
| 26A | Info | General |
| | | <i>New clause added;</i> |
| 26A.1 | | 15 and 20 amp straight blade receptacles are suitable for use in an ambient temperature up to 50°C. |
| 98 | Info | Latching Mechanism Tests |
| | | Cycling test |
| 98.2 | Info | <i>Section deleted.</i> |
| 98.3 | Info | Pull test |
| 98.3.1 | | After completion of this test, there shall not be any damage to the cord connectors or the blades of the attachment plugs or other evidence of increased risk of injury or electric shock. The latching means shall remain functional. There shall not be any loosening of the plug blades or displacement between the blades at the attachment plug face, nor compression of the folded blades below the minimum allowable thickness for the configuration. The attachment plug shall be capable of being inserted into a standard mating receptacle. There shall not be any damage, arcing, or dielectric breakdown during application of the test potential. <u>The retention of blades test, Section 96 is to be repeated.</u> |
| 98.3.2 | | Previously untested devices are to be used. With the device firmly secured in place, a mating attachment plug is to be inserted into the device and the latching mechanism activated to lock the plug in place. The mating plugs are to have the configurations shown in Table 98.2. <u>A pull of 20 lbf (89 N) in a direction perpendicular to the plane of the face of the cord connector and tending to withdraw the plug from the device is then to be applied to the plug and the plug shall be withdrawn by the force. A static 30 lbf (133 N) is to be applied to the plug for 1 minute in a direction perpendicular to the plane of the face of the outlet which tends to remove the plug from the outlet.</u> The force is then to be removed from the plug and the latching mechanism activated to release the plug, and the plug removed from the outlet. This is to be repeated for a total of 50 <u>250</u> cycles. Three devices are to be tested using attachment plugs with rigidly mounted solid blades with standard detent holes. Three devices are to be tested using attachment plugs with folded blades and standard detent holes. |