

## STANDARD INFORMATION

**Standard:** UL Subject 1680

**Standard ID:** Outline of Investigation for Stage and Lighting Cables [UL SUBJECT 1680:2023 Ed.2]

**Previous Standard ID:** Outline of Investigation for Stage and Lighting Cables [UL SUBJECT 1680:2003 Ed.1]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **November 7, 2025**

## 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 Reports not updated to this version by the effective date above will be withdrawn.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:** References for test methods were updated. Specific details of new/revised 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 <del>lined-out</del> below.</i>
8	Info	<b>Test Program</b> The test program is as follows:  <del>C) SUNLIGHT RESISTANCE – Eighty percent retention per UL 62 after 720 hours of conditioning per Section 1200 of UL 1581.</del>  <u>C) SUNLIGHT RESISTANCE – Eighty percent retention of both tensile and elongation after conditioning for 720 hours of conditioning in a xenon arc weatherometer as described in the test, Weather (sunlight) resistance, in UL 2556.</u>  <del>*D) See 2.4 CRUSHING RESISTANCE WITH CONDUCTOR AT ROOM TEMPERATURE (INTEGRAL CONSTRUCTION ONLY) – Method per Section 595 of UL 1581. It is to take at least 2500 lbf to crush 2 AWG cable to the point that the buzzer sounds and at least 3500 lbf for 4/0 AWG cable. The results of tests of these two sizes are to be considered representative of the performance of all sizes.</del>  <u>*D) See 5.4 CRUSHING RESISTANCE WITH CONDUCTOR AT ROOM TEMPERATURE (INTEGRAL CONSTRUCTION ONLY) – Method per the test, Crush Resistance, method 2 (drill rod and plate), in the Standard for Wire and Cable Test Methods, UL 2556. It is to take at least 2500 lbf to crush 2 AWG cable to the point that the buzzer sounds and at least 3500 lbf for 4/0 AWG cable. The results of tests of these two sizes are to be considered representative of the performance of all sizes.</u>  <del>I) WET A-C DIELECTRIC – Withstand the following for 60 seconds between conductor and water (method per Section 820 of UL 1581): 3500 volts for 8 – 2 AWG; 4000 volts for 1 AWG – 250 kcmil.</del>  <u>I) WET A-C DIELECTRIC – Withstand the following for 60 seconds between conductor and water (method per Dielectric-Voltage Withstand, method 2, UL 2556): 3500 volts for 8 – 2 AWG; 4000 volts for 1 AWG – 250 kcmil.</u>  <del>J) COLD BEND at –40°C (MANDATORY) OR AT –50°C, –60°C, or –70°C (OPTIONAL) – Requirements per UL 62. Method per Section 580 of UL 1581.</del>  <u>J) COLD BEND at –40 °C (MANDATORY) OR AT –50 °C, –60 °C, or –70 °C (OPTIONAL) – Requirements per UL 62. Method per the test, Cold Bend, in UL 2556.</u>



CLAUSE	VERDICT	COMMENT
		<p><del>K) DEFORMATION (PVC AND TPE ONLY) – Test temperatures and requirements per UL 62 for the material. Method per Section 560 of UL 1581. The conductor is to be replaced by a solid steel rod having a diameter that is neither loose nor tight in the insulation, or a flat rectangular buffed specimen is to be used.</del></p> <p><u>K) DEFORMATION (PVC AND TPE ONLY) – Test temperatures and requirements per UL 62 for the material. Method per the test, Deformation, in UL 2556 using the load specified in Table 8.1. The conductor is to be replaced by a solid steel rod having a diameter that is neither loose nor tight in the insulation, or a flat rectangular buffed specimen is to be used.</u></p>