

## STANDARD INFORMATION - UL 493:2018 ED.10

**Standard Number:** UL 493

**Standard Name:** Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables

**Standard Edition and Issue Date:** 10<sup>th</sup> Edition dated December 10, 2018

**Date of Revision:** December 10, 2018

**Date of Previous Revision of Standard:** 9<sup>th</sup> Edition dated revised October 26, 2016

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **June 10, 2020**

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requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.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

- Addition of requirements for conductors
- Addition of requirements for durability of ink printing

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:

**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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
<p>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</p>		
4	Info	<b>Construction</b>
4.3	Info	<b>Conductors</b>
<p><b><i>New clause added;</i></b></p>		
4.3.3		Single conductors sized 14 – 8 AWG may be solid or stranded, and single conductors sized 6 – 4/0 AWG shall be stranded. In multiple-conductor cable constructions, 14 – 10 AWG conductors may be solid or stranded, and 8 – 4/0 AWG conductors shall be stranded. See 7.1.1 for single-conductor cables that comprise pump cables.
5	Info	<b>Test Requirements</b>
<p><b><i>New section added;</i></b></p>		
5.13		<b>Durability of ink printing</b>
5.13.1		Printing on the finished wire shall remain legible after being conditioned in accordance with 5.13.2 and 5.13.3.
5.13.2		One of the specimens shall be aged in a full-draft circulating-air oven with 100 – 200 fresh-air changes per hour; the other left at room temperature for 24 h in still air at 23.0 ±5.0°C before being tested. The time and temperature shall be in accordance with the air oven aging conditions corresponding to the rated temperature printed on the outer surface of the insulation or jacket material. The specimen shall then be removed from the oven and kept in still air to cool to room temperature for 60 min before being tested.
5.13.3		The temperature and time for accelerated aging in circulating-air oven for conditioning shall be as specified in Table 11 of UL 83 for the insulation and as specified in Table 6 of this Standard for the jacket.
5.13.4		Compliance with 5.13.1 – 5.13.3 shall be determined in accordance with 8.11.
<p><b>CUSTOMERS PLEASE NOTE:</b> 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.</p>		