

## STANDARD INFORMATION

**Standard:** UL 83 / CSA C22.2 No. 75

**Standard ID:**

Thermoplastic-Insulated Wires and Cables [UL 83:2017 Ed.16+R:10Apr2020]

Thermoplastic-Insulated Wires and Cables [CSA C22.2#75:2017 Ed.11+U1]

**Previous Standard ID:**

Thermoplastic-Insulated Wires and Cables [UL 83:2017 Ed.16]

Thermoplastic-Insulated Wires and Cables [CSA C22.2#75:2017 Ed.11]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **April 10, 2022**

## 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:** Modification of requirements for conductor stranding marking on product. Specific details of new/revisted 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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**

*Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.*

6            Info        **Marking**

6.1         Info        **Marking on product**

**Conductor stranding**

6.1.5        A wire or cable employing stranded conductors that are more finely stranded than Class B or C stranding (including Class B and Class C compact) shall be marked with the conductor class or classes. For conductor class, refer to Clause 4.1. For the number of strands on Class B or C conductors, see Table 42.

Note: A wire or cable employing SIW or combination unilay stranding need not be marked.

***New table added;***

**Conductor stranding**

Table 42

Conductor size		Number of strands					
		Copper		Aluminum		Copper-clad aluminum	
mm <sup>2</sup>	(AWG or kcmil)	Class B	Class C	Class B	Class C	Class B	Class C
2.1 – 33.6	(14 – 2)	7	19	7 <sup>a</sup>	19 <sup>a</sup>	7 <sup>a</sup>	19 <sup>a</sup>
42.4 – 107	(1 – 4/0)	19	37	19	37	19	37
127 – 253	(250 – 500)	37	61	37	61	37	61
304 – 508	(600 – 1000)	61	91	61	91	61	91
635 – 759	(1250 – 1500)	91	127	–	–	–	–
886 – 1016	(1750 – 2000)	127	169	–	–	–	–

<sup>a</sup> Aluminum and copper-clad aluminum 14 AWG (2.1 mm<sup>2</sup>) are not available.  
*Note: In Canada and Mexico, copper-clad aluminum conductors shall not be used in thermoplastic-insulated wires and cables.*