

STANDARD INFORMATION

Standard: UL 1072

Standard ID: Medium-Voltage Power Cables [UL 1072:2006 Ed.4+R:16Mar2023]

Previous Standard ID: Medium-Voltage Power Cables [UL 1072:2006 Ed.4+R:13Apr2020]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **March 16, 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 Reports not updated to this version by the effective date above will be withdrawn.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: Alignment of Insulation Thicknesses. 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
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Additions to existing requirements are underlined and deletions are shown ~~lined-out~~ below.

15	Info	Thicknesses
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Thicknesses, in mils, of XLPE, DREP, or EP insulation in 5 – 35 kV, shielded single- and multiple-conductor cable and of XLPE, EP, or DREP insulation in 2400 V, nonshielded multiple-conductor cable

Note: Only modified portions of the table are shown.

Table 15.1

Voltage rating of cable (phase-to-phase circuit voltage)	Conductor size (AWG or kcmil)	Insulation thickness (mils)			
		133 percent level		173 percent level	
		Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point
5000	8 – 1000	85 <u>110</u> ^b	120 <u>145</u> ^b		
25001 – 28000	1 – 2000				475 <u>495</u>
28001 – 35000	1/0 – 2000		450 <u>460</u>	555 <u>550</u>	610 <u>630</u>
^b 5000 Volts, 133% insulation level utilizing 85 mils minimum point and 120 mils maximum point may alternately be used, when installations or operating conditions dictate this reduced insulation thickness is needed. The corresponding a-c test voltage shall be 18kV when the reduced thickness is used.					



CLAUSE VERDICT COMMENT

Thicknesses, in mm, of XLPE, DREP, or EP insulation in 5 – 35 kV, shielded single- and multiple-conductor cable and of XLPE, EP, or DREP insulation in 2400 V, nonshielded multiple-conductor cable

Note: Only modified portions of the table are shown.

Table 15.2

Voltage rating of cable (phase-to-phase circuit voltage)	Conductor size (AWG or kcmil)	Insulation thickness (mm)			
		133 percent level		173 percent level	
		Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point
5000	8 – 1000	2.16 <u>2.79^b</u>	3.05 <u>3.68^b</u>		
25001 – 28000	1 – 2000				12.1 <u>12.6</u>
28001 – 35000	1/0 – 2000		11.4 <u>11.7</u>	14.1 <u>14.0</u>	15.5 <u>16.0</u>

^b 5000 Volts, 133% insulation level utilizing 85 mils minimum point and 120 mils maximum point may alternately be used, when installations or operating conditions dictate this reduced insulation thickness is needed. The corresponding a-c test voltage shall be 18kV when the reduced thickness is used.

56 Info A-C Dielectric Withstand Test of Each Conductor Having Insulation Shielding

A-C dielectric withstand rms test potential in kilovolts for shielded conductors

Note: Only modified portions of the table are shown.

Table 56.1

Rated circuit voltage phase to phase	Conductor size AWG or kcmil	100 percent insulation level	133 percent insulation level	173 percent AWG or kcmil insulation level
2001 – 5000	8 – 1000	18	18 <u>23^a</u>	28

^a 5000 Volts, 133% insulation level utilizing 85 mils minimum point and 120 mils maximum point shall be tested at 18kV.