

STANDARD INFORMATION

Standard: UL 444 / CSA C22.2 No. 214

Standard ID:

Communications Cables [UL 444:2017 Ed.5+R:16Jun2021]

Communications Cables [CSA C22.2#214:2017 Ed.8+U1;U2]

Previous Standard ID:

Communications Cables [UL 444:2017 Ed.5+R:24Sep2018]

Communications Cables [CSA C22.2#214:2017 Ed.8+U1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 17, 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. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Introduction of Optional Suffixes HF, LSHF and ST1
- Use of an Additional 14 AWG Conductor in a Multi-conductor Communications Cable

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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 lined out below.</i>
7	Info	Capability Tests
7.14	Info	Flame and smoke requirements
7.14.1		Type CMP shall be tested flame propagation and smoke density limits <u>stated in Appendix A of NFPA 262 in accordance with the flame and smoke test specified in ULC-S102.4 or NFPA 262. The maximum flame spread distance shall not exceed 1.52 m (5 ft). The maximum peak optical density of smoke shall not exceed 0.50 and the average optical density shall not exceed 0.15. Cables meeting this criterion shall be deemed to meet the criteria for FT6 flame test classification.</u>
8	Info	Marking of Cables
8.3	Info	Required marking
8.3.9	Info	Cables with grounding/bonding conductor <i>New clause added;</i> For a cable, other than a coaxial cable, a cable employing a single 14 – 6 AWG grounding/bonding conductor in addition to the conductors used for the communications circuit, the following wording shall be provided: 8.3.9.1 “XX AWG green insulated conductor for equipment grounding/bonding only”; or “XX AWG green/ yellow insulated conductor for equipment grounding/bonding only”; or “XX AWG bare conductor for equipment grounding/bonding only”. The XX shall be filled in with the AWG size of the grounding/ bonding conductor.
8.4	Info	Optional marking <i>New clause added;</i>
8.4.7		In the United States, the optional designation “ST1” (signifying limited smoke) may be added as a suffix or immediately following the letters for types CM or CMR or cross-connect that comply with the fire and smoke requirements in the ST1 limited smoke (Method 1 – Vertical Tray) requirements in CSA C22.2 No. 2556 or UL 2556. In Canada, this requirement does not apply.



CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
8.4.8		The optional designation “FT4-ST1” (signifying limited smoke) may be added following the letters for type CMG that complies with the fire and smoke requirements in the ST1 limited smoke (Method 2 – FT4) in CSA C22.2 No. 2556 or UL 2556.
		<i>New clause added;</i>
8.4.9		<p>In the United States, the “HF” suffix may be added to designate cable where all of the combustible materials used in the construction (e.g., insulation, fillers, jackets) are halogen-free in accordance with UL 2885, “Outline of Investigation for Acid Gas, Acidity and Conductivity of Combusted Materials and Assessment of Halogens”.</p> <p>In Canada, the marking “HALOGEN-FREE” or “HAL-FREE” may be added to designate cable where all of the combustible materials used in the construction (e.g., insulation, fillers, jackets) are halogen-free as determined by:</p> <p>a) X-ray fluorescence or by analysis of the chemical composition of all combustible materials used. Each component shall have less than 0.2 percent (by weight) of halogen elements (Chlorine, Bromine); and</p> <p>b) The acid gas generation of the combustible materials used shall not exceed 2.0 percent when tested in accordance with the Acid gas emission test (Method 2) in CSA C22.2 No. 2556.</p>
		<i>New clause added;</i>
8.4.10		In the United States, the “LSHF” suffix may be added to designate cable that meets the “-HF” requirements and also complies with the requirements for low smoke when tested in accordance with IEC 61034-2, “Measurement of Smoke Density of Cables Burning Under Defined Conditions – Part 2: Test Procedure and Requirements”.
9	Info	Marking on Tag, Reel, or Carton
9.1	Info	General requirements
		<i>New clause added;</i>
9.1.9		<p>For a cable other than a coaxial cable employing a single 14 – 6 AWG grounding/bonding conductor in addition to the conductors used for the communications circuit, the following wording shall be provided:</p> <p>“XX AWG green insulated conductor for equipment grounding/bonding only”; or “XX AWG green/yellow insulated conductor for equipment grounding/bonding only”; or “XX AWG bare conductor for equipment grounding/bonding only”.</p> <p>The XX shall be filled in with the AWG size of the grounding/bonding conductor.</p>