Test methods for electrical wires and cables
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Test methods for electrical wires and cables

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Preface


This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Subcommittee on Test Methods for Wires and Cables, under the jurisdiction of the Technical Committee on Wiring Products and the Strategic Steering Committee on Requirements for Electrical Safety, and has been formally approved by the Technical Committee.

**Interpretations:** The Strategic Steering Committee on Requirements for Electrical Safety has provided the following direction for the interpretation of standards under its jurisdiction: “The literal text shall be used in judging compliance of products with the safety requirements of this Standard. When the literal text cannot be applied to the product, such as for new materials or construction, and when a relevant committee interpretation has not already been published, CSA’s procedures for interpretation shall be followed to determine the intended safety principle.

September 2009

**Notes:**

1. Use of the singular does not exclude the plural (and vice versa) when the sense allows.
2. Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.
3. This publication was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this publication.
4. CSA Standards are subject to periodic review, and suggestions for their improvement will be referred to the appropriate committee.
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(a) define the problem, making reference to the specific clause, and, where appropriate, include an illustrative sketch;
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(c) be phrased where possible to permit a specific “yes” or “no” answer.

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C22.2 No. 0.3-09
Test methods for electrical wires and cables

1 Scope

1.1 General
This Standard describes the apparatus, test methods, and formulas to be used in carrying out the tests and calculations required by CSA electrical wire and cable Standards.

1.2 Acceptance requirements
The acceptance requirements expected to be fulfilled through the testing of any particular type of wire or cable are contained in the Standard relating to that type and do not constitute a part of this Standard.

1.3 Terminology
In CSA Standards, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the standard. Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material. Notes to tables and figures are considered part of the table or figure and may be written as requirements. Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

2 Reference publications
This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

CSA (Canadian Standards Association)
C22.1-09
Canadian Electrical Code, Part I

CAN/CSA-C22.2 No. 0 (under development)
General Requirements — Canadian Electrical Code, Part II

CAN/CSA-C22.2 No. 2556-07
Wire and cable test methods

ASTM International (American Society for Testing and Materials)
D1693-08
Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics

D2863-09
Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)

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