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Australian/New Zealand Standard™

Cable management systems — Test method for content of halogens

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Australian Chamber of Commerce and Industry
Australian Industry Group
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Consumer Electronics Suppliers Association
Consumers' Federation of Australia
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International Accreditation New Zealand
Joint Accreditation System of Australia & New Zealand
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories.

The objective of this document is to specify a method for the determination of the content of halogens in cable management system (CMS) products or system components made completely or partly of combustible material(s). The determination is made by combustion and subsequent analysis of the combustion product by ion chromatography. This document specifies how CMS products or system components can be declared as halogen-free.

This document is for environmental performance purposes only.

Conformity to this document does not imply the absence of toxicity, corrosivity or opacity of produced smoke, or other reaction to fire characteristics. If any of these characteristics are to be evaluated, the appropriate standards can be used.

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IEC 63355 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
23A/997/FDIS	23A/999/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

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The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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- withdrawn,
- replaced by a revised edition, or
- amended.

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Australian/New Zealand Standard

Cable management systems — Test method for content of halogens

1 Scope

This document specifies a method for the determination of the content of halogens in cable management system (CMS) products or system components made completely or partly of combustible material(s). The determination is made by combustion and subsequent analysis of the combustion product by ion chromatography. This document specifies how CMS products or system components can be declared as halogen-free.

This document is for environmental performance purposes only.

Compliance with this document does not imply the absence of toxicity, corrosivity or opacity of produced smoke, or other reaction to fire characteristics. If any of these characteristics are to be evaluated, the appropriate standards can be used.

The detection limit of this test method is typically 0,025 g of halogen per kg (0,0 2 5 %).

Halides insoluble in aqueous solution present in the original sample or produced during the combustion step are not determined by this method.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1716, *Reaction to fire tests for products – Determination of the gross heat of combustion (calorific value)*

ISO 3696, *Water for analytical laboratory use – Specification and test methods*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at https://www.electropedia.org/
- ISO Online browsing platform: available at https://www.iso.org/obp

3.1
halogen content
content of fluorine, chlorine, bromine and iodine as organic and inorganic compounds that can be converted to halides (fluoride, chloride, bromide, iodide) by combustion and then absorbed or dissolved in an aqueous solution

Note 1 to entry: The above definition is valid for this document only and does not strictly comply with the scientific definition of halogen content.

3.2
combustible, adjective
capable of being ignited and burned

[SOURCE: ISO 13943:2017, 3.52]

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