

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Cable management systems – Test method for content of halogens**

**Systèmes de gestion de câblage – Méthode d'essai relative à la teneur en halogènes**





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## CABLE MANAGEMENT SYSTEMS – TEST METHOD FOR CONTENT OF HALOGENS

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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.

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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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# 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 (0,002 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.