

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Cable management systems – Cable ties for electrical installations

Systemes de câblage – Colliers pour installations électriques





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Cable management systems – Cable ties for electrical installations

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CABLE MANAGEMENT SYSTEMS – CABLE TIES FOR ELECTRICAL INSTALLATIONS

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IEC 62275 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2018. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) scope clarification,
- b) new definitions,
- c) deletion of the exception for the stabilization of the moisture content,
- d) possibility to carry out tensile strength tests with dead weights,
- e) differentiation of rubber and acrylic adhesive fixings,
- f) clarification for mechanical testing of integral devices,
- g) clarifications on Table 6,
- h) clarifications in 9.1,

- i) the minimum installation temperature test for cable ties is carried out only when the declared minimum temperature is lower than 0 °C,
- j) a requirement that metallic cable ties be classified according to 6.2.3,
- k) definition of colours to be tested for contribution to fire,
- l) addition of a "some countries" note in Clause 10,
- m) clarification of the mounting of fixing devices in the resistance to ultraviolet light test,
- n) clarification on the testing of integral devices in the resistance to ultraviolet light test.

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

Draft	Report on voting
23A/1025/FDIS	23A/1029/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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- 6.2.2: Additional type classifications are applicable when pre-qualified moulding materials are used (Canada, USA).
- 6.2.3: Additional type classifications are applicable when pre-qualified moulding materials are used (Canada, USA).
- 7.3: Some marking information is required to be placed on the packaging (Canada, Russia, USA).

In this document, the following print types are used:

- Requirements proper: in roman type.
- *Test specifications: in italic type.*
- Notes: in smaller roman type.

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

CABLE MANAGEMENT SYSTEMS – CABLE TIES FOR ELECTRICAL INSTALLATIONS

1 Scope

This document specifies requirements for metallic, non-metallic and composite cable ties and their associated fixing devices as a means used for managing or securing the wiring systems in electrical installations. Cable ties and associated fixing devices can also be suitable for other applications, such as support of wiring systems, and where so used, additional requirements can apply.

This document does not contain requirements that evaluate any electrical insulation properties of the cable tie or mechanical protection of the cables provided by the cable tie. This document contains requirements for the mechanical interface of an adhesive fixing device to a solid surface. It does not consider the mechanical behaviour of the solid surface in itself.

This document does not consider the mechanical interface, for example the mounting screw, of a fixing device other than adhesive to a solid surface.

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.

IEC 60068-2-6:2007, *Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)*

IEC 60216-4-1:2006, *Electrical insulating materials – Thermal endurance properties – Part 4-1: Ageing ovens – Single-chamber ovens*

IEC 60695-11-5:2016, *Fire hazard testing – Part 11-5: Test flames – Needle-flame test method – Apparatus, confirmatory test arrangement and guidance*

ISO 4892-2:2013, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

ISO 4892-2:2013/AMD1:2021

ISO 9227:2017, *Corrosion tests in artificial atmospheres – Salt spray tests*

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 <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>