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SECRETARIAT:
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SECRETARY:
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OF INTEREST TO THE FOLLOWING COMMITTEES:

FUNCTIONS CONCERNED:
☐ EMC  ☐ ENVIRONMENT  ☐ QUALITY ASSURANCE  ☒ SAFETY

☐ SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:
Cable management - Cable tray systems and cable ladder systems

PROPOSED STABILITY DATE: 2026

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FOREWORD

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IEC 61537 has been prepared by subcommittee 23A: Cable management systems, of IEC technical committee 23: Electrical accessories. It is an International Standard.

This third edition cancels and replaces the second edition published in 2006. This edition constitutes a technical revision.

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

a) new, repositioned and renumbered figures,
b) revised classification for corrosion,
c) revised SWL test types and procedures,
d) new tests for lengths mounted vertical running horizontal and mounted vertical running vertical,
e) tests for support devices: cantilevers, pendants, C shape ceiling supports and trapeze systems,
f) new and revised annexes including use of tray as a protective earth conductor.
The text of this International Standard is based on the following documents:

<table>
<thead>
<tr>
<th>Draft</th>
<th>Report on voting</th>
</tr>
</thead>
<tbody>
<tr>
<td>23A/xxx/FDIS</td>
<td>23A/xxx/RVD</td>
</tr>
</tbody>
</table>

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/standardsdev/publications.

The following differences exist in some countries:

In the USA it is permitted to use cable tray systems and cable ladder systems as a PE conductor, in which case national wiring regulations have to be adhered to.

In France it is not permitted to use cable tray systems and cable ladder systems as a PE conductor.

In France the use of flame propagating cable tray and cable ladder systems is not permitted.

In this document, the following print types are used:

– Requirements proper: in roman type.
– Test specifications: in italic type.
– Explanatory matter: in smaller roman type.

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

• reconfirmed,
• withdrawn,
• replaced by a revised edition, or
• amended.
CABLE MANAGEMENT – CABLE TRAY SYSTEMS AND CABLE LADDER SYSTEMS

1 Scope

This document specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and accommodation of cables and possibly other electrical equipment in electrical and/or communication systems installations. Where necessary, cable tray systems and cable ladder systems can be used for the arrangement of cables into groups.

This document does not apply to conduit systems, cable trunking systems and cable ducting systems or to any current-carrying parts.

NOTE Cable tray systems and cable ladder systems are designed for use as supports for cables and not as enclosures.

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 60287 (all parts), Electric cables – Calculation of the current rating

IEC 60417, Graphical symbols for use on equipment (available at http://www.graphical-symbols.info/equipment)


IEC 60695-11-2:2017, Fire hazard testing – Part 11-2: Test flames – 1 kW pre-mixed flame – Apparatus, confirmatory test arrangement and guidance

ISO 1461:2022, Hot dip galvanized coatings on fabricated iron and steel articles – Specifications and test methods

ISO 2081:2018, Metallic and other inorganic coatings – Electroplated coatings of zinc with supplementary treatments on iron or steel

ISO 2409:2020, Paints and varnishes – Cross-cut test

ISO 3506-1:2020, Fasteners – Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs with specified grades and property classes

ISO 3575:2016, Continuous hot-dip zinc-coated and zinc-iron alloy-coated carbon steel sheet of commercial and drawing qualities

ISO 4042:2022, Fasteners – Electroplated coating systems

ISO 4046:2016 (all parts), Paper, board, pulps and related terms – Vocabulary
ISO 9227:2022, *Corrosion tests in artificial atmospheres – Salt spray tests*

ISO 10289:1999, *Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates – Rating of test specimens and manufactured articles subjected to corrosion tests*

ISO 4628-8:2012, *Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 8: Assessment of degree of delamination and corrosion around a scribe or other artificial defect*


ISO 10684:2004 *Fasteners – Hot dip galvanized coatings*

EN 10346:2015, *Continuously hot-dip coated steel flat products for cold forming. Technical delivery conditions*