



BSI Standards Publication

Electrostatics

Part 5-1: Protection of electronic devices from electrostatic phenomena — General requirements

National foreword

This British Standard is the UK implementation of EN IEC 61340-5-1:2024. It is identical to IEC 61340-5-1:2024. It supersedes BS EN 61340-5-1:2016, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/101, Electrostatics.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

Date	Text affected
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English Version

Electrostatics - Part 5-1: Protection of electronic devices from
electrostatic phenomena - General requirements
(IEC 61340-5-1:2024)

Electrostatique - Partie 5-1: Protection des dispositifs
électroniques contre les phénomènes électrostatiques -
Exigences générales
(IEC 61340-5-1:2024)

Elektrostatik - Teil 5-1: Schutz von elektronischen
Bauelementen gegen elektrostatische Phänomene -
Allgemeine Anforderungen
(IEC 61340-5-1:2024)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 101/705/FDIS, future edition 3 of IEC 61340-5-1, prepared by IEC/TC 101 "Electrostatics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61340-5-1:2024.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2025-03-25 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2027-06-25 document have to be withdrawn

This document supersedes EN 61340-5-1:2016 and all of its amendments and corrigenda (if any).

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Endorsement notice

The text of the International Standard IEC 61340-5-1:2024 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60749-28	NOTE	Approved as EN IEC 60749-28
IEC 60749-26	NOTE	Approved as EN IEC 60749-26
IEC 60749-27	NOTE	Approved as EN 60749-27
IEC 60364 series	NOTE	Approved as HD 60364 series
IEC 61010-1	NOTE	Approved as EN 61010-1
IEC 61140	NOTE	Approved as EN 61140

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61340-2-3	-	Electrostatics - Part 2-3: Methods of test for determining the resistance and resistivity of solid materials used to avoid electrostatic charge accumulation	EN 61340-2-3	-
IEC 61340-4-1	-	Electrostatics - Part 4-1: Standard test methods for specific applications - Electrical resistance of floor coverings and installed floors	EN 61340-4-1	-
IEC 61340-4-3	-	Electrostatics - Part 4-3: Standard test methods for specific applications - Footwear	EN IEC 61340-4-3	-
IEC 61340-4-5	-	Electrostatics - Part 4-5: Standard test methods for specific applications - Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person	EN IEC 61340-4-5	-
IEC 61340-4-6	-	Electrostatics - Part 4-6: Standard test methods for specific applications - Wrist straps	EN 61340-4-6	-
IEC 61340-4-7	-	Electrostatics - Part 4-7: Standard test methods for specific applications - Ionization	EN 61340-4-7	-
IEC 61340-4-8	-	Electrostatics - Part 4-8: Standard test methods for specific applications - Electrostatic discharge shielding - Bags	EN 61340-4-8	-
IEC 61340-4-9	-	Electrostatics - Part 4-9: Standard test methods for specific applications - Garments	EN 61340-4-9	-
IEC 61340-5-3	-	Electrostatics - Part 5-3: Protection of electronic devices from electrostatic phenomena - Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices	EN IEC 61340-5-3	-
IEC/TS 61340-5-4	-	Electrostatics - Part 5-4: Protection of electronic devices from electrostatic phenomena - Compliance verification		-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROSTATICS –

**Part 5-1: Protection of electronic devices from
electrostatic phenomena – General requirements**

FOREWORD

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IEC 61340-5-1 has been prepared by IEC technical committee 101: Electrostatics. It is an International Standard.

This third edition cancels and replaces the second edition published in 2016. This edition constitutes a technical revision.

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

- a) definitions have been added to the document;
- b) updates to product qualification requirements;
- c) subclause 5.3.3 now includes a reference to groundable static control garment systems;
- d) Table 2 was replaced;

- e) subclause 5.3.4.2 was updated to define what an insulator is;
- f) subclause 5.3.4.3 was updated to include a definition for isolated conductor;
- g) Table 3 was updated, technical items added, including a reference to IEC 61340-5-4 for compliance verification testing;
- h) Table 4 was added as a summary of the requirements in IEC 61340-5-3 and to include requirements for compliance verification of packaging;
- i) Annex A was replaced: the former Annex is no longer required. Annex A are examples of tailoring.

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

Draft	Report on voting
101/705A/FDIS	101/710/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.

A list of all parts in the IEC 61340 series, published under the general title *Electrostatics*, can be found on the IEC website.

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, or
- revised.