

STN	Elektrostatika. Časť 5-3: Ochrana elektronických súčiastok pred elektrostatickými javmi. Vlastnosti a požiadavky na klasifikáciu obalov určených na súčiastky citlivé na elektrostatický výboj.	STN EN 61340-5-3 34 6440
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Electrostatics - Part 5-3: Protection of electronic devices from electrostatic phenomena - Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/16

Obsahuje: EN 61340-5-3:2015, IEC 61340-5-3:2015

Oznámením tejto normy sa od 20.08.2018 ruší
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EUROPEAN STANDARD

EN 61340-5-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2015

ICS 17.220.99; 29.020

Supersedes EN 61340-5-3:2010

English Version

**Electrostatics - Part 5-3: Protection of electronic devices from
electrostatic phenomena - Properties and requirements
classification for packaging intended for electrostatic discharge
sensitive devices
(IEC 61340-5-3:2015)**

Électrostatique - Partie 5-3: Protection des dispositifs
électroniques contre les phénomènes électrostatiques -
Classification des propriétés et des exigences relatives à
l'emballage destiné aux dispositifs sensibles aux décharges
électrostatiques
(IEC 61340-5-3:2015)

Elektrostatik - Teil 5-3: Schutz von elektronischen
Bauelementen gegen elektrostatische Phänomene -
Eigenschaften und Anforderungen für die Klassifizierung
von Verpackungen, welche für Bauelemente verwendet
werden, die gegen elektrostatische Entladungen
empfindlich sind
(IEC 61340-5-3:2015)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

The text of document 101/428/CDV, future edition 2 of IEC 61340-5-3, prepared by IEC/TC 101 "Electrostatics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61340-5-3:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-05-20
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-08-20

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

IEC 61340-5-1	NOTE	Harmonized as EN 61340-5-1.
IEC 60749-26	NOTE	Harmonized as EN 60749-26.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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 60417	-	Graphical symbols for use on equipment	-	-
IEC 61340-2-3	-	Electrostatics - Part 2-3: Methods of test for determining the resistance and resistivity of solid planar materials used to avoid electrostatic charge accumulation	EN 61340-2-3	-
IEC 61340-4-8	-	Electrostatics - Part 4-8: Standard test methods for specific applications - Electrostatic discharge shielding - Bags	EN 61340-4-8	-
IEC 61340-4-10	-	Electrostatics - Part 4-10: Standard test methods for specific applications - Two-point resistance measurement	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electrostatics –
Part 5-3: Protection of electronic devices from electrostatic phenomena –
Properties and requirements classification for packaging intended for
electrostatic discharge sensitive devices**

**Électrostatique –
Partie 5-3: Protection des dispositifs électroniques contre les phénomènes
électrostatiques – Classification des propriétés et des exigences relatives à
l'emballage destiné aux dispositifs sensibles aux décharges électrostatiques**





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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Electrostatics –

**Part 5-3: Protection of electronic devices from electrostatic phenomena –
Properties and requirements classification for packaging intended for
electrostatic discharge sensitive devices**

Électrostatique –

**Partie 5-3: Protection des dispositifs électroniques contre les phénomènes
électrostatiques – Classification des propriétés et des exigences relatives à
l'emballage destiné aux dispositifs sensibles aux décharges électrostatiques**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROSTATICS –**Part 5-3: Protection of electronic devices from electrostatic phenomena –
Properties and requirements classification for packaging intended for
electrostatic discharge sensitive devices**

FOREWORD

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International Standard IEC 61340-5-3 has been prepared by IEC technical committee 101: Electrostatics.

This second edition cancels and replaces the first edition published in 2010. This edition constitutes a technical revision.

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

- a) removal of all references to ANSI/ESD STM11.13, replaced by normative reference IEC 61340-4-10;
- b) additional notes added to Table 1;
- c) addition of a new Table 3 related to the "ESD classification symbol" and the "primary function code".

The text of this standard is based on the following documents:

CDV	Report on voting
101/428/CDV	101/457/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

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

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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

INTRODUCTION

Packaging is necessary to protect electrostatic discharge sensitive devices (ESDS) from physical and environmental damage during manufacture, transportation and storage.

Additionally, packaging for ESDS should also prevent damage from static electricity.

ELECTROSTATICS –

Part 5-3: Protection of electronic devices from electrostatic phenomena – Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices

1 Scope

This part of IEC 61340 defines the ESD protective packaging properties needed to protect electrostatic discharge sensitive devices (ESDS) through all phases of production, rework/maintenance, transport and storage. Test methods are referenced to evaluate packaging and packaging materials for these product and material properties. Performance limits are provided.

This standard does not address protection from electromagnetic interference (EMI), electromagnetic pulsing (EMP) or protection of volatile materials.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61340-2-3, *Electrostatics – Part 2-3: Methods of test for determining the resistance and resistivity of solid planar materials used to avoid electrostatic charge accumulation*

IEC 61340-4-8, *Electrostatics – Part 4-8: Standard test methods for specific applications – Electrostatic discharge shielding – Bags*

IEC 61340-4-10, *Electrostatics – Part 4-10: Standard test methods for specific applications – Two-point resistance measurement¹*

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

¹ At the time of writing, it is proposed withdrawing IEC 61340-4-10: 2012 and incorporating the test method into the next edition of IEC 61340-2-3.