SVENSK STANDARD SS-EN 61340-4-6

Fastställd	Utgåva	Sida	Ansvarig kommitté
2016-02-17	1	1 (1+20)	SEK TK 101

Elektrostatiska urladdningar (ESD) – Del 4-6: Provningsmetoder för särskilda tillämpningar – Handledsband

Electrostatics –
Part 4-6: Standard test methods for specific applications –
Wrist straps

Som svensk standard gäller europastandarden EN 61340-4-6:2015. Den svenska standarden innehåller den officiella engelska språkversionen av EN 61340-4-6:2015.

Nationellt förord

Europastandarden EN 61340-4-6:2015

består av:

– **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
– **IEC 61340-4-6, Second edition, 2015 - Electrostatics - Part 4-6: Standard test methods for specific applications - Wrist straps**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 17.220.99; 29.020.00

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61340-4-6

September 2015

ICS 17.220.99; 29.020

English Version

Electrostatics - Part 4-6: Standard test methods for specific applications - Wrist straps (IEC 61340-4-6:2015)

Électrostatique - Partie 4-6: Méthodes d'essai normalisées pour des applications spécifiques - Bracelets de conduction dissipative
(IEC 61340-4-6:2015)

Elektrostatik - Teil 4-6: Standard-Prüfverfahren für spezielle Anwendungen - Handgelenkerdungsbänder
(IEC 61340-4-6:2015)

This European Standard was approved by CENELEC on 2015-06-24. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

Ref. No. EN 61340-4-6:2015 E

SEK Svensk Elstandard

European foreword

The text of document 101/463/FDIS, future edition 2 of IEC 61340-4-6, prepared by IEC/TC 101 "Electrostatics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61340-4-6:2015.

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) 2016-03-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-24

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61340-4-6:2015 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 standards indicated:

IEC 61340-5-1	NOTE	Harmonized as EN 61340-5-1.
IEC/TR 61340-5-2	NOTE	Harmonized as CLC/TR 61340-5-2.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ELECTROSTATICS –

Part 4-6: Standard test methods for specific applications – Wrist straps

FOREWORD

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International Standard IEC 61340-4-6 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) editorial comments made during the review of the first edition were reviewed and incorporated where appropriate;
b) several changes were made to update the Figures and improve the presentation of metric measurements (Imperial measurements have been removed);

c) the option of using an integrated checker for wrist strap system continuity testing has been added;

d) the evaluation and acceptance limit for wrist strap resistance has been changed so as to harmonize with IEC 61340-5-1.

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

FDIS	Report on voting
101/463/FDIS	101/476/RVD

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 website 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

This part of IEC 61340 has been developed to establish test methods for evaluating the electrical and mechanical attributes of wrist straps used in an electrostatic control program. Wrist straps are intended to connect the user to electrical ground, thus preventing electrostatic charge on a user's body from attaining a level that may damage ESD susceptible devices or assemblies.

Test methods and performance limits for evaluation, acceptance, and functional testing are provided.

ELECTROSTATICS –

Part 4-6: Standard test methods for specific applications – Wrist straps

1 Scope

This part of IEC 61340 provides electrical and mechanical test methods and performance limits for evaluation, acceptance and periodic verification testing of wrist straps.

NOTE All dimensions are nominal except where indicated.

This standard is intended for testing wrist straps and wrist strap systems used for the grounding of personnel engaged in working with ESD sensitive assemblies and devices.

It does not address constant monitoring systems.