SLOVENSKI STANDARD
SIST EN 60301:2012

01-december-2012

Nadomešča:
SIST HD 349 S1:2004

Preferenčni premeri žičnih priključkov kondenzatorjev in uporov

Preferred diameters of wire terminations of capacitors and resistors

Valeurs préférentielles des diamètres des fils de sorties des condensateurs et résistances

Ta slovenski standard je istoveten z: EN 60301:2012

ICS:

31.040.01	Upori splošno	Resistors in general
31.060.01	Kondenzatorji na splošno	Capacitors in general

SIST EN 60301:2012 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60301

October 2012

ICS 31.040; 31.060

Supersedes HD 349 S1:1977

English version

Preferred diameters of wire terminations of capacitors and resistors
(IEC 60301:2012)

Valeurs préférentielles des diamètres des fils de sorties des condensateurs et résistances
(CEI 60301:2012)

Bevorzugte Durchmesser für Anschlussdrähte an Kondensatoren und Widerständen
(IEC 60301:2012)

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CENELEC

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

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Ref. No. EN 60301:2012 E

Foreword

The text of document 40/2153/FDIS, future edition 3 of IEC 60301, prepared by IEC/TC 40 "Capacitors and resistors for electronic equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60301:2012.

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)	2013-05-17
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-08-17

This document supersedes HD 349 S1:1977.

EN 60301:2012 includes the following significant technical changes with respect to HD 349 S1:1977:

- employment of SI units only in the normative part of this standard, causing transfer of all imperial dimensions from Table 1 to the informative Annex A;
- addition of two smaller diameters of wire terminations in Table 1; and
- tightening of the tolerance ranges defined by minimum and maximum diameters in Table 1.

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 60301:2012 was approved by CENELEC as a European Standard without any modification.

IEC 60301

Edition 3.0 2012-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Preferred diameters of wire terminations of capacitors and resistors

Valeurs préférentielles des diamètres des fils de sorties des condensateurs et résistances

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

PREFERRED DIAMETERS OF WIRE TERMINATIONS OF CAPACITORS AND RESISTORS

FOREWORD

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International Standard IEC 60301 has been prepared by IEC technical committee 40: Capacitors and resistors for electronic equipment.

This third edition cancels and replaces the second edition, published in 1971, and its Amendment A.1, published in 1972, and constitutes a technical revision.

The main technical changes with respect to the second edition are the following:

– employment of SI units only in the normative part of this standard, causing transfer of all imperial dimensions from Table 1 to the informative Annex A,
– addition of two smaller diameters of wire terminations in Table 1, and
– tightening of the tolerance ranges defined by minimum and maximum diameters in Table 1.

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

FDIS	Report on voting
40/2153/FDIS	40/2165/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.

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.

PREFERRED DIAMETERS OF WIRE TERMINATIONS OF CAPACITORS AND RESISTORS

1 Scope

This International Standard gives a series of preferred diameters of the finished wire terminations of capacitors and resistors for use in electronic equipment.

2 Preferred diameters of wire terminations

A series of preferred diameters d of the finished wire terminations is given in Table 1.

Table 1 – Preferred diameters of wire terminations

Minimum diameter d_{min} mm	Nominal diameter d mm	Maximum diameter d_{max} mm
0,18	0,2	0,22
0,23	0,25	0,27
0,27	0,3	0,33
0,36	0,4	0,43
0,45	0,5	0,53
0,55	0,6	0,63
0,65	0,7	0,73
0,75	0,8	0,83
0,95	1,0	1,03
1,15	1,2	1,23

The nominal or mean diameter of actual wire terminations may deviate from the listed nominal diameter d, if the actual wire diameter with its tolerance is within the range as defined by the minimum and maximum diameters, d_{min} and d_{max}, in Table 1.

NOTE 1 The presented nominal diameters d are intended to apply to the wire terminations of finished products. The diameter of the supplied lead wire material may deviate from this recommendation since all processing applied to the wire material takes effect prior to assessment of the wire termination's diameter.

NOTE 2 The designer of components with wire terminations and the writer of specifications on such products may wish to consider the influence of a wide variation of the diameter of wire terminations on the performance of the respective products, e.g. through the thermal conductivity leading to differences in the thermal management of the component, which probably influences the result of endurance tests and also the functional lifetime of the respective component. Hence, the designer or writer may decide to prescribe a tighter tolerance window for the wire terminations of the respective product, preferably within the ranges given in this standard.