

SLOVENSKI STANDARD
SIST EN 60317-0-4:2001/A2:2006**01-februar-2006**

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Specifications for particular types of winding wires -- Part 0-4: General requirements -
Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper
wire

STANDARD PREVIEW

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten -- Teil 0-4:
Allgemeine Anforderungen - Flachdrähte aus Kupfer, blank oder lackisoliert und umhüllt
mit Glasgewebe, imprägniert mit Harz oder Lack

[SIST EN 60317-0-4:2001/A2:2006](https://standards.iteh.ai/catalog/standards/sist/2b3d51c1-1976-45d2-a018-11d1-4060-600000000000/sist-en-60317-0-4-2001-a2-2006)

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Spécifications pour types particuliers de fils de bobinage -- Partie 0-4: Prescriptions
générales - Fil de section rectangulaire en cuivre nu ou émaillé guipé de fibres de verre
imprégnées de vernis ou de résine

Ta slovenski standard je istoveten z: EN 60317-0-4:1998/A2:2005

ICS:

29.060.10 Žice Wires

SIST EN 60317-0-4:2001/A2:2006 en

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EUROPEAN STANDARD

EN 60317-0-4/A2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2005

ICS 29.060.10

English version

**Specifications for particular types of winding wires
Part 0-4: General requirements –
Glass-fibre wound, resin or varnish impregnated,
bare or enamelled rectangular copper wire
(IEC 60317-0-4:1997/A2:2005)**

Spécifications pour types particuliers
de fils de bobinage
Partie 0-4: Prescriptions générales –
Fil de section rectangulaire en cuivre nu
ou émaillé guipé de fibres de verre
imprégnées de vernis ou de résine
(CEI 60317-0-4:1997/A2:2005)

Technische Lieferbedingungen für
bestimmte Typen von Wickeldrähten
Teil 0-4: Allgemeine Anforderungen -
Flachdrähte aus Kupfer, blank oder
lackisoliert und umhüllt mit Glasgewebe,
imprägniert mit Harz oder Lack
(IEC 60317-0-4:1997/A2:2005)

This amendment A2 modifies the European Standard EN 60317-0-4:1998; it was approved by CENELEC on 2005-11-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 Central Secretariat or to any CENELEC member.

This amendment 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 Central Secretariat has the same status as the official versions.

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

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 55/968/FDIS, future amendment 2 to IEC 60317-0-4:1997, prepared by IEC TC 55, Winding wires, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A2 to EN 60317-0-4:1998 on 2005-11-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2006-08-01
- latest date by which the national standards conflicting
with the amendment have to be withdrawn (dow) 2008-11-01

Endorsement notice

The text of amendment 2:2005 to the International Standard IEC 60317-0-4:1997 was approved by CENELEC as an amendment to the European Standard without any modification.

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60317-0-4

1997

AMENDEMENT 2
AMENDMENT 2
2005-11

Amendement 2

**Spécifications pour types particuliers
de fils de bobinage –**

Partie 0-4: Prescriptions générales –

**Fil de section rectangulaire en cuivre nu ou émaillé
guipé de fibres de verre imprégnées
de vernis ou de résine (ai)**

SIST EN 60317-0-4:2001/A2:2006

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Amendment 2

**Specifications for particular types
of winding wires –**

Part 0-4: General requirements –

**Glass-fibre wound resin or varnish impregnated,
bare or enamelled rectangular copper wire**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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*Pour prix, voir catalogue en vigueur
For price, see current catalogue*

FOREWORD

This amendment has been prepared by IEC technical committee 55: Winding wires.

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

FDIS	Report on voting
55/968/FDIS	55/979/RVD

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result 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.

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INTRODUCTION [SIST EN 60317-0-4:2001/A2:2006
https://standards.iteh.ai/catalog/standards/sist/2b3d51c1-1976-45d2-a018-e3e9474ee2da/sist-en-60317-0-4-2001-a2-2006](https://standards.iteh.ai/catalog/standards/sist/2b3d51c1-1976-45d2-a018-e3e9474ee2da/sist-en-60317-0-4-2001-a2-2006)

Replace the existing text by the following:

This part of IEC 60317 is one of a series that deals with insulated wires used for windings in electrical equipment. The series has three groups describing:

- 1) Winding wires – Test methods (IEC 60851);
- 2) Specifications for particular types of winding wires (IEC 60317);
- 3) Packaging of winding wires (IEC 60264).

Page 9

1 Scope

Replace the first paragraph by the following:

This part of IEC 60317 specifies general requirements of glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire.

2 Normative references

Remove the year of publication from all normative references.

3 Definitions and general notes on methods of test

Replace the title of this clause by the following new title:

3 Definitions, general notes on methods of test, and appearance

Page 11

Add the following definition:

normal vision

20/20 vision, with corrective lenses, if necessary.

Add the following subclause:

3.3 Appearance

The fibrous covering shall be essentially smooth and continuous, and free from physical damage and foreign material when examined with normal vision, as wound on the original spool or reel.

NOTE Evidence of physical damage includes gashes, broken fibre strands, and the like.

4 Dimensions

<https://standards.iteh.ai/catalog/standards/sist/2b3d51c1-1976-45d2-a018-e3e9474ee2da/sist-en-60317-0-4-2001-a2-2006>

4.1 Conductor dimensions

Replace the second paragraph by the following:

Preferred sizes are combinations of width and thickness both according to the R 20 and R 40 series.

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4.4 Increase in dimensions due to the insulation

Replace Table 4 by the following:

Table 4 – Increase in dimensions

Nominal width of the conductor mm		Increase in dimensions mm											
		Glass-fibre covering over bare conductor						Glass-fibre covering over grade 2 enamelled wire					
		Single covering (GL1)			Double covering (GL2)			Single covering (Grade 2 GL1)			Double covering (Grade 2 GL2)		
Over	Up to and incl.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
–	3,15	0,10	0,14	0,18	0,21	0,27	0,33	0,23	0,29	0,35	0,35	0,42	0,49
3,15	6,30	0,12	0,16	0,20	0,23	0,30	0,37	0,25	0,31	0,37	0,38	0,45	0,52
6,30	12,50	0,14	0,19	0,24	0,27	0,35	0,43	0,27	0,34	0,41	0,43	0,50	0,57
12,50	16,00	0,17	0,23	0,29	0,31	0,39	0,47	0,30	0,38	0,46	0,46	0,54	0,62

NOTE 1 The maximum increase due to the glass-fibre covering may be exceeded provided the overall dimension of the covered wire does not exceed the sum of the maximum thickness of the bare wire plus the maximum increase due to the grade 2 enamel and the glass-fibre covering.

NOTE 2 The increase in width due to the glass-fibre covering should be equal to or less than the maximum increase in thickness given in Table 4. Note 1 applies to the increase in width as well as the increase in thickness.

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5 Electrical resistance

Replace the value for resistivity in the second paragraph by the following:

“...a resistivity of $1/58 \Omega \text{ mm}^2 \text{ m}^{-1}$.”

Page 23

Table 7 – Breakdown voltage

Replace in Table 7, the value 2 00, in the fourth line, by 2 000.

14 Continuity of isolation

Replace the title of this clause by the following new title:

14 Continuity of insulation