

**Specifications for particular types of winding wires
-- Part 0-1: General requirements - Enamelled round
copper wire**

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copper wire

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60317-0-1:2008 sisaldab Euroopa standardi EN 60317-0-1:2008 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 24.07.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 06.06.2008.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60317-0-1:2008 consists of the English text of the European standard EN 60317-0-1:2008.

This standard is ratified with the order of Estonian Centre for Standardisation dated 24.07.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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Võtmesõnad: copper, dimension, electric wire, enamelled wire, insulated wire, round shape, specification, winding

Standardite reprodutseerimis- ja levitamiseõigus kuulub Eesti Standardikeskusele

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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:
Aru 10 Tallinn 10317 Eesti; www.evs.ee; Telefon: 605 5050; E-post: info@evs.ee

English version

**Specifications for particular types of winding wires -
Part 0-1: General requirements -
Enamelled round copper wire
(IEC 60317-0-1:2008)**

Spécifications pour types particuliers
de fils de bobinage -
Partie 0-1: Exigences générales -
Fil de section circulaire en cuivre émaillé
(CEI 60317-0-1:2008)

Technische Lieferbedingungen
für bestimmte Typen von Wickeldrähten -
Teil 0-1: Allgemeine Anforderungen -
Runddrähte aus Kupfer, lackisoliert
(IEC 60317-0-1:2008)

This European Standard was approved by CENELEC on 2008-05-01. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the 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 55/1033/CDV, future edition 3 of IEC 60317-0-1, prepared by IEC TC 55, Winding wires, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60317-0-1 on 2008-05-01.

This European Standard supersedes EN 60317-0-1:1998 + A1:2000 + A2:2005.

The main changes with respect to EN 60317-0-1:1998 are listed below:

- addition of Grade 3 minimum insulation increases and maximum overall diameters for wires up to 0,071 mm nominal conductor diameter in Tables 1 and A.1;
- revisions to minimum increase in bonding layer for wires up to 0,100 mm nominal conductor diameter in Tables 2 and A.2;
- addition of Grade 3 dielectric breakdown requirements for wires up to 0,071 mm nominal conductor diameter;
- new pin hole test requirement for Grade 3 polyurethane wires.

This standard is to be read in conjunction with the EN 60851 series. The clause numbers used in EN 60317-0-1 are identical with the respective test numbers of EN 60851.

In case of inconsistencies between EN 60851 and EN 60317-0-1, the latter shall prevail.

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2009-02-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2011-05-01 |

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 60317-0-1:2008 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 60317-2	NOTE	Harmonized as EN 60317-2:1994 (not modified).
IEC 60317-4	NOTE	Harmonized as EN 60317-4:1994 (not modified).
IEC 60317-11	NOTE	Harmonized as EN 60317-11:2000 (not modified).
IEC 60317-19	NOTE	Harmonized as EN 60317-19:1995 (not modified).
IEC 60317-20	NOTE	Harmonized as EN 60317-20:1995 (not modified).
IEC 60317-21	NOTE	Harmonized as EN 60317-21:1995 (not modified).
IEC 60317-23	NOTE	Harmonized as EN 60317-23:1995 (not modified).
IEC 60317-35	NOTE	Harmonized as EN 60317-35:1994 (not modified).
IEC 60317-36	NOTE	Harmonized as EN 60317-36:1994 (not modified).
IEC 60317-51	NOTE	Harmonized as EN 60317-51:2001 (not modified).

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60172	- ¹⁾	Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	1994 ²⁾
IEC 60264	Series	Packaging of winding wires	EN 60264	Series
IEC 60317	Series	Specifications for particular types of winding wires	EN 60317	Series
IEC 60851	Series	Winding wires - Test methods	EN 60851	Series
ISO 3	- ¹⁾	Preferred numbers - Series of preferred numbers	-	-

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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INTRODUCTION

This part of IEC 60317 is one of a series which 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).

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SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 0-1: General requirements – Enamelled round copper wire

1 Scope

This part of IEC 60317 specifies general requirements of enamelled round copper winding wires with or without bonding layer.

The range of nominal conductor diameters is given in the relevant specification sheet.

When reference is made to a winding wire according to a standard of the IEC 60317 series mentioned under Clause 2, the following information is given in the description:

- reference to IEC specification;
- nominal conductor diameter in millimetres;
- grade.

EXAMPLE IEC 60317-1 – 0,500 Grade 2

2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60172, *Test procedure for the determination of the temperature index of enamelled winding wires*

IEC 60264 (all parts), *Packaging of winding wires*

IEC 60317 (all parts), *Specifications for particular types of winding wires*

IEC 60851 (all parts), *Winding wires – Test methods*

ISO 3, *Preferred numbers – Series of preferred numbers*

3 Terms, definitions and general notes on methods of test and appearance

For the purposes of this document, the following terms and definitions apply.

3.1 Terms and definitions

3.1.1

bonding layer

material which is deposited on an enamelled wire and which has the specific function of bonding wires together