

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

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 60317-0-1:2014 sisaldab Euroopa standardi EN 60317-0-1:2014 inglisekeelset teksti.	This Estonian standard EVS-EN 60317-0-1:2014 consists of the English text of the European standard EN 60317-0-1:2014.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English version

**Specifications for particular types of winding wires -  
Part 0-1: General requirements -  
Enamelled round copper wire  
(IEC 60317-0-1:2013)**

Spécifications pour types particuliers de  
fils de bobinage -  
Partie 0-1: Exigences générales -  
Fil de section circulaire en cuivre émaillé  
(CEI 60317-0-1:2013)

Technische Lieferbedingungen für  
bestimmte Typen von Wickeldrähten -  
Teil 0-1: Allgemeine Anforderungen -  
Runddrähte aus Kupfer, lackisoliert  
(IEC 60317-0-1:2013)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of document 55/1409/FDIS, future edition 4 of IEC 60317-0-1, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-0-1:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2014-08-11  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2016-11-11  
standards conflicting with the  
document have to be withdrawn

This document supersedes EN 60317-0-1:2008.

EN 60317-0-1:2014 includes the following significant technical changes with respect to EN 60317-0-1:2008:

- revision to the definition of nominal conductor dimension;
- new subclause containing general notes on winding wire, formerly a part of the scope;
- revision to elongation requirements in Table 4;
- revisions to Clause 13, Breakdown voltage, to include new requirements for intermediate wire diameters;
- revision to continuity of insulation requirements in Table 13;
- revision to the introduction of Annex A;
- revision to B.2 of Annex B;
- revision to Table C.1 of Annex C.

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

In case of inconsistencies between EN 60851 and this part of EN 60317, the latter prevails.

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## Endorsement notice

The text of the International Standard IEC 60317-0-1:2013 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 60264 Series	NOTE	Harmonized as EN 60264 Series (not modified).
IEC 60317 Series	NOTE	Harmonized as EN 60317 Series (not modified).

**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 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	-	Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	-
IEC 60851	Series	Winding wires - Test methods	EN 60851	Series
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-

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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).



## 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.

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

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

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

#### 3 Terms, definitions, general notes 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

###### 3.1.2

###### **class**

thermal performance of a wire expressed by the temperature index and the heat shock temperature

###### 3.1.3

###### **coating**

material which is deposited on a conductor or wire by a suitable means and then dried and/or cured

###### 3.1.4

###### **conductor**

bare metal after removal of the insulation