Specifications for particular types of winding wires - Part 0-7: General requirements - Fully insulated (FIW) zero-defect enamelled round copper wire with nominal conductor diameter of 0,040 mm to 1,600 mm

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

See Eesti standard EVS-EN 60317-0-7:2012 sisaldab Euroopa standardi EN 60317-0-7:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 60317-0-7:2012 consists of the English text of the European standard EN 60317-0-7:2012.
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.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 29.06.2012.	Date of Availability of the European standard is 29.06.2012.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 29.060.10

EUROPEAN STANDARD

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EUROPÄISCHE NORM

EN 60317-0-7

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English version

Specifications for particular types of winding wires - Part 0-7: General requirements - Fully insulated (FIW) zero-defect enamelled round copper wire with nominal conductor diameter of 0,040 mm to 1,600 mm

(IEC 60317-0-7:2012)

Spécifications pour types particuliers de fils de bobinage -
Partie 0-7: Exigences générales -
Fil de section circulaire en cuivre émaillé sans défaut d'isolation électrique avec diamètre nominal de conducteur compris entre 0,040 mm et 1,600 mm
(CEI 60317-0-7:2012)

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten -
Teil 0-7: Allgemeine Anforderungen -
Isolationsfehlerfreie Runddrähte (FIW) aus Kupfer, lackisoliert mit Nenndurchmesser von 0,040 mm bis 1,600 mm
(IEC 60317-0-7:2012)

CENELEC

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

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Foreword

The text of document 55/1303/FDIS, future edition 1 of IEC 60317-0-7, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-0-7:2012.

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)	2013-02-24
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-05-24

This European Standard is to be read in conjunction with the EN 60851 series.

The clause numbers used in EN 60317-0-7:2012 are identical with the respective test numbers of the EN 60851 series.

In case of inconsistencies between EN 60851 and EN 60317-0-7:2012, the latter shall prevail.

The numbering of clauses in this standard is not continuous from Clauses 21 and 30 in order to reserve space for possible future wire requirements prior to those for wire packaging.

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 60317-0-7:2012 was approved by CENELEC as a European Standard without any modification.

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.

Publication	Year	Title	EN/HD	Year
IEC 60172	-	Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	-
IEC 60317-0-1	2008	Specifications for particular types of winding wires - Part 0-1: General requirements - Enamelled round copper wire	EN 60317-0-1	2008
IEC 60851	Series	Winding wires - Test methods	EN 60851	Series
IEC 60851-5 + A1	2008 2011	Winding wires - Test methods - Part 5: Electrical properties	EN 60851-5 + A1	2008 2011
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-

CONTENTS

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 series);
2) *Specifications for particular types of winding wires* (IEC 60317 series);
3) *Packaging of winding wires* (IEC 60264 series).

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 0-7: General requirements – Fully insulated (FIW) zero-defect enamelled round copper wire with nominal conductor diameter of 0,040 mm to 1,600 mm

1 Scope

This part of IEC 60317 establishes general requirements for fully insulated (FIW) zero-defect enamelled round copper wires.

The nominal conductor diameter range is given in the relevant technical specification.

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

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

IEC 60851-5:2008, *Winding wires – Test methods – Part 5: Electrical properties*
Amendment 1:2011

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

3 Terms, definitions, general notes and appearance

3.1 Terms and definitions

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

3.1.1
bonding layer
material that is deposited on an enamelled wire and that 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