

Irish Standard I.S. EN 60317-13:2010

Specifications for particular types of winding wires -- Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200 (IEC 60317 -13:2010 (EQV))

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EN 60317-13

NORME EUROPÉENNE EUROPÄISCHE NORM

May 2010

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Supersedes EN 60317-13:1994 + A1:1997 + A2:1998

English version

Specifications for particular types of winding wires Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200

(IEC 60317-13:2010)

Spécifications pour types particuliers de fils de bobinage Partie 13: Fil de section circulaire en cuivre émaillé avec polyester ou polyesterimide et avec surcouche polyamide-imide, classe 200 (CEI 60317-13:2010)

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten -Teil 13: Runddrähte aus Kupfer, lackisoliert mit Polyester oder Polyesterimid und darüber mit Polyamidimid, Klasse 200 (IEC 60317-13:2010)

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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 55/1179/FDIS, future edition 3 of IEC 60317-13, prepared by IEC TC 55, Winding wires, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60317-13 on 2010-05-01.

This European Standard supersedes EN 60317-13:1994 + A1:1997 + A2:1998.

The main changes with respect to EN 60317-13:1994 and its amendments are listed below:

- new requirements for appearance;
- reference to new resistance to refrigerants test in IEC 60851-4;
- deletion of high temperature failure requirement;
- new pin hole test requirements.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN and CENELEC shall not be held responsible for identifying any or all such patent rights.

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) 2011-02-01

 latest date by which the national standards conflicting with the EN have to be withdrawn

(dow) 2013-05-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60317-13:2010 was approved by CENELEC as a European Standard without any modification.

EN 60317-13:2010

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>	EN/HD	<u>Year</u>
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 60851-4 + A1 + A2	1996 1997 2005	Winding wires - Test methods - Part 4: Chemical properties	EN 60851-4 + A1 + A2	1996 1997 2005

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200

FOREWORD

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International Standard IEC 60317-13 has been prepared by IEC technical committee 55: Winding wires.

This third edition of IEC 60317-13 cancels and replaces the second edition published in 1990, its amendment 1 (1997) and its Amendment 2 (1997). This edition constitutes a technical revision.

The main changes with respect to the previous edition are listed below:

- new requirements for appearance;
- reference to new resistance to refrigerants test in IEC 60851-4;
- deletion of high temperature failure requirement;
- new pin hole test requirements.

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

FDIS	Report on voting
55/1179/FDIS	55/1190/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.

This International Standard is to be read in conjunction with IEC 60317-0-1 (2008).

A list of all the parts in the IEC 60317 series, under the general title *Specifications for particular types of winding wires*, can be found on the IEC website.

The committee has decided that the contents of this amendment and the base 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.

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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 and methods of test (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 13: Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200

1 Scope

This Part of IEC 60317 specifies the requirements of enamelled round copper winding wire of class 200 with a dual coating. The underlying coating is based on polyester or polyesterimide resin, which may be modified providing it retains the chemical identity of the original resin and meets all specified wire requirements. The superimposed coating is based on polyamide-imide resin.

NOTE A modified resin is a resin that has undergone a chemical change, or contains one or more additives to enhance certain performance or application characteristics.

Class 200 is a thermal class that requires a minimum temperature index of 200 and a heat shock temperature of at least 220 °C.

The temperature in degrees Celsius corresponding to the temperature index is not necessarily that at which it is recommended that the wire be operated and this will depend on many factors, including the type of equipment involved.

The range of a nominal conductor diameters covered by this standard is as follows:

- Grade 1: 0,050 mm up to and including 2,000 mm;
- Grade 2: 0,050 mm up to and including 5,000 mm.

The nominal conductor diameters are specified in Clause 4 of IEC 60317-0-1.

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

IEC 60851-4:1996, Methods of test for winding wires - Part 4: Chemical properties

Amendment 1 (1997)

Amendment 2 (2005)

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

3.1 Terms and definitions

For terms and definitions, see 3.1 of IEC 60317-0-1. In case of inconsistencies between IEC 60317-0-1 and this standard, IEC 60317-13 shall prevail.



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