

STN	Špecifikácie jednotlivých typov vodičov na vinutia Časť 0-2: Všeobecné požiadavky Medený vodič pravouhlého prierezu, lakovaný	STN EN IEC 60317-0-2 34 7307
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Specifications for particular types of winding wires - Part 0-2: General requirements - Enamelled rectangular copper wire

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/20

Obsahuje: EN IEC 60317-0-2:2020, IEC 60317-0-2:2020

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EUROPEAN STANDARD

EN IEC 60317-0-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2020

ICS 29.060.10

Supersedes EN 60317-0-2:2014 and all of its
amendments and corrigenda (if any)

English Version

**Specifications for particular types of winding wires - Part 0-2:
General requirements - Enamelled rectangular copper wire
(IEC 60317-0-2:2020)**

Spécifications pour types particuliers de fils de bobinage -
Partie 0-2: Exigences générales - Fil de section
rectangulaire en cuivre émaillé
(IEC 60317-0-2:2020)

Technische Lieferbedingungen für bestimmte Typen von
Wickeldrähten - Teil 0-2: Allgemeine Anforderungen -
Flachdrähte aus Kupfer, lackisoliert
(IEC 60317-0-2:2020)

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EN IEC 60317-0-2:2020 (E)**European foreword**

The text of document 55/1847/FDIS, future edition 4 of IEC 60317-0-2, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60317-0-2:2020.

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) 2021-04-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-07-15

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The text of the International Standard IEC 60317-0-2:2020 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)
IEC 60317 (series)	NOTE	Harmonized as EN 60317 (series)

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<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 and tape wrapped winding wires	-	-
IEC 60851	series	Winding wires - Test methods	-	-
IEC 60851-3	-	Winding wires - Test methods - Part 3: Mechanical properties	EN 60851-3	-
ISO 3	-	Preferred numbers - Series of preferred numbers	-	-
ISO 1190-1	-	Copper and copper alloys; Code of designation; Part 1: Designation of materials	-	-
ISO 6892-1	2016	Metallic materials - Tensile testing - Part 1: Method of test at room temperature	-	-
-	-	Copper and copper alloys - Copper drawing stock (wire rod)	EN 1977	-
ASTM B49	-	Standard Specification for Copper Rod for Electrical Purposes	-	-



IEC 60317-0-2

Edition 4.0 2020-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Specifications for particular types of winding wires –
Part 0-2: General requirements – Enamelled rectangular copper wire**

**Spécifications pour types particuliers de fils de bobinage –
Partie 0-2: Exigences générales – Fil de section rectangulaire en cuivre émaillé**





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IEC 60317-0-2

Edition 4.0 2020-06

INTERNATIONAL STANDARD

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**Specifications for particular types of winding wires –
Part 0-2: General requirements – Enamelled rectangular copper wire**

**Spécifications pour types particuliers de fils de bobinage –
Partie 0-2: Exigences générales – Fil de section rectangulaire en cuivre émaillé**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 0-2: General requirements – Enamelled rectangular copper wire

FOREWORD

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International Standard IEC 60317-0-2 has been prepared by IEC technical committee 55: Winding wires.

This fourth edition cancels and replaces the third edition published in 2013. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) revision to Clause 2 to add new normative references for specifications for copper rods;
- b) revision to 3.1 to add a new definition for the term "bonding layer";
- c) revision to 3.2.1 to the conditions specified for tests to be carried out;
- d) revision to 4.5 to add requirements for minimal, nominal and maximal overall dimensions with a bonding layer;
- e) revision to Clause 5 to reference specifications for rectangular and square copper rod;

- f) revision to Clause 6 to take into account nominal proof strength;
- g) revision to 8.2 to the adherence test requirement;
- h) revision to Clause 18 to make reference to the relevant specification sheet

The text of this International Standard is based on the following documents:

FDIS	Report on voting
55/1847/FDIS	55/1865/RVD

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This International standard is to be read in conjunction with IEC 60851 (all parts). The clause numbers used in this part of IEC 60317 are identical with the respective test numbers of IEC 60851 (all parts).

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

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.

A list of all parts in the IEC 60317 series, published 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 document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

This part of IEC 60317 forms an element of a series of standards which deals with insulated wires used for windings in electrical equipment. It is composed of the following series:

- 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 0-2: General requirements – Enamelled rectangular copper wire

1 Scope

This part of IEC 60317 specifies the general requirements of enamelled rectangular copper winding wires.

The range of nominal conductor dimensions is given in 4.1 and the relevant specification sheet.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 and tape wrapped winding wires*

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

IEC 60851-3, *Winding wires – Test methods – Part 3: Mechanical properties*

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

ISO 1190-1, *Copper and copper alloys – Code of designation – Part 1: Designation of materials*

ISO 6892-1:2016, *Metallic materials – Tensile testing – Part 1: Method of test at room temperature*

EN 1977, *Copper and copper alloys – Copper drawing stock (wire rod)*

ASTM B49, *Standard Specification for Copper Rod for Electrical Purposes*

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