

<b>STN</b>	<b>Špecifikácie jednotlivých typov vodičov na vinutia Časť 61: Medený vodič pravouhlého prierezu, holý alebo lakovaný, ovinutý kombináciou polyesterových a sklenených vlákien, impregnovaný živicom alebo lakom, teplotný index 180</b>	<b>STN EN IEC 60317-61</b>  34 7307
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Specifications for particular types of winding wires - Part 61: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180

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. 09/20

Obsahuje: EN IEC 60317-61:2020, IEC 60317-61:2020

Oznámením tejto normy sa od 12.06.2023 ruší  
STN EN 60317-61 (34 7307) z mája 2013

EUROPEAN STANDARD

**EN IEC 60317-61**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2020

ICS 29.060.10

Supersedes EN 60317-61:2012 and all of its amendments and corrigenda (if any)

English Version

**Specifications for particular types of winding wires - Part 61:  
Polyester glass-fibre wound, resin or varnish impregnated, bare  
or enamelled rectangular copper wire, temperature index 180  
(IEC 60317-61:2020)**

Spécifications pour types particuliers de fils de bobinage -  
Partie 61: Fil de section rectangulaire en cuivre nu ou  
émaillé, guipé de fibres de verre polyester imprégnées de  
résine ou de vernis, d'indice de température 180  
(IEC 60317-61:2020)

Technische Lieferbedingungen für bestimmte Typen von  
Wickeldrähten - Teil 61: Flachdrähte aus Kupfer, blank oder  
lackisoliert und umhüllt mit Polyester Glasgewebe,  
imprägniert mit Harz oder Lack oder unimprägniert,  
Temperaturindex 180  
(IEC 60317-61:2020)

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN IEC 60317-61:2020 (E)****European foreword**

The text of document 55/1771/CDV, future edition 2 of IEC 60317-61, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60317-61:2020.

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) 2021-03-12
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-06-12

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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
IEC 60851 series	NOTE	Harmonized as EN 60851 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60317-0-8	2019	Specifications for particular types of winding wires - Part 0-8: General requirements - Polyester glass-fibre wound unvarnished and fused, or resin or varnish impregnated, bare or enamelled rectangular copper wire	EN IEC 60317-0-8	2019



IEC 60317-61

Edition 2.0 2020-05

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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de température 180**

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ICS 29.060.10

ISBN 978-2-8322-8306-6

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –****Part 61: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60317-61 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

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

- a) revision of the title of the standard;
- b) revision to Clause 1, Scope;
- c) revision to the descriptions of grades of thickness of polyester glass-fibre coverings in 3.2.2.

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

CDV	Report on voting
55/1771/CDV	55/1819/RVC

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 used in conjunction with the IEC 60317-0-8:2019.

A list of all the 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 numbering of clauses in this standard is not continuous from Clauses 20 and 30 in order to reserve space for possible future wire requirements prior to those for wire packaging.

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 61: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 180

#### 1 Scope

This part of IEC 60317 specifies the requirements of polyester glass-fibre wound, resin or varnish impregnated bare, grade 1 or grade 2 enamelled rectangular copper winding wires, temperature index 180. The impregnating agent can be, for instance, epoxy, polyester, or polyestermide resin based.

NOTE For this type of wire, the heat shock test is inappropriate and therefore a heat shock temperature cannot be established. Consequently, a class based on the requirements for temperature index and heat shock temperature cannot be specified.

The range of nominal conductor dimensions covered by this document is:

- width: min. 2,0 mm max. 16,0 mm;
- thickness: min. 0,80 mm max. 5,60 mm.

The specified combinations of width and thickness as well as the specified width/thickness ratio are according to IEC 60317-0-8.

#### 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 60317-0-8:2019, *Specifications for particular types of winding wires – Part 0-8: General requirements – Polyester glass-fibre wound unvarnished and fused, or resin or varnish impregnated, bare or enamelled rectangular copper wire*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**