

SLOVENSKI STANDARD

SIST EN IEC 60317-61:2020

01-oktober-2020

Nadomešča:

SIST EN 60317-61:2012

Specifikacije za posebne vrste navijalnih žic - 61. del: Bakrena žica s pravokotnim prerezom, gola ali emajlirana, ovita s poliestrskimi optičnimi vlakni in impregnirana s smolo ali lakom, toplotni indeks 180

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

iTeh STANDARD PREVIEW

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten - Teil 61: Flachdrähte aus Kupfer, blank oder lackisoliert und umhüllt mit Polyesterglasgewebe, imprägniert mit Harz oder Lack oder unimprägniert, Temperaturindex 180

<https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-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 avec polyester de classe d'au moins 180, imprégnées de vernis ou de résine, d'indice de température 180

Ta slovenski standard je istoveten z: EN IEC 60317-61:2020

ICS:

29.060.10	Žice	Wires
77.150.30	Bakreni izdelki	Copper products

SIST EN IEC 60317-61:2020 en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60317-61:2020](#)

<https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020>

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)

This European Standard was approved by CENELEC on 2020-06-12. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

This document supersedes EN 60317-61:2012 and all of its amendments and corrigenda (if any).

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

iTeh STANDARD PREVIEW (standards.iteh.ai)

Endorsement notice

[SIST EN IEC 60317-61:2020](https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020)

[https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-](https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020)

[031215c84a6f/sist-en-iec-60317-61-2020](https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020)

The text of the International Standard IEC 60317-61:2020 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
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.

<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

SIST EN IEC 60317-61:2020
<https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN IEC 60317-61:2020](#)

<https://standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020>



IEC 60317-61

Edition 2.0 2020-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**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**

**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**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.060.10

ISBN 978-2-8322-8306-6

**Warning! Make sure that you obtained this publication from an authorized distributor.
Attention! Veuillez vous assurer que vous avez obtenu cette publication via un distributeur agréé.**

CONTENTS

FOREWORD	3
INTRODUCTION	5
1 Scope	6
2 Normative references	6
3 Terms, definitions, general notes and appearance	6
3.1 Terms and definitions	6
3.2 General notes	6
3.2.1 Methods of test	6
3.2.2 Winding wire	7
3.3 Appearance	7
4 Dimensions	7
5 Electrical resistance	7
6 Elongation	7
7 Springiness	7
8 Flexibility and adherence	7
9 Heat shock	7
10 Cut-through	8
11 Resistance to abrasion	8
12 Resistance to solvents	8
13 Breakdown voltage	8
14 Continuity of insulation	8
15 Temperature index	8
16 Resistance to refrigerants	8
17 Solderability	8
18 Heat or solvent bonding	8
19 Dielectric dissipation factor	8
20 Resistance to transformer oil	8
23 Pin hole test	8
30 Packaging	9
Bibliography	10

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN IEC 60317-61:2020

standards.iteh.ai/catalog/standards/sist/ca25477f-2998-4721-a7e8-031215c84a6f/sist-en-iec-60317-61-2020

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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

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.