

SLOVENSKI STANDARD SIST EN 60317-38:2014

01-april-2014

Nadomešča:

SIST EN 60317-38:2001

SIST EN 60317-38:2001/A1:2002 SIST EN 60317-38:2001/A2:2001

Specifikacije za posebne vrste navijalnih žic - 38. del: S poliestrom ali poliesterimidom prevlečena in s poliamid-imidom emajlirana okrogla bakrena žica, razred 200, s spajalno plastjo (IEC 60317-38:2013)

Specifications for particular types of winding wires - Part 38. Polyester or polyesterimide overcoated with polyamide-imide enamelled round copper wire, class 200, with a bonding layer

SIST EN 60317-38:2014 https://standards.iteh.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014

Spécifications pour types particuliers de fils de bobinage - Partie 38: Fil de section circulaire en cuivre émaillé avec polyester ou polyesterimide et avec surcouche polyamide-imide, classe 200, avec une couche adhérente

Ta slovenski standard je istoveten z: EN 60317-38:2014

ICS:

29.060.10 Žice Wires

SIST EN 60317-38:2014 en

SIST EN 60317-38:2014

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60317-38:2014 https://standards.iteh.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014

EUROPEAN STANDARD

EN 60317-38

NORME FUROPÉENNE **EUROPÄISCHE NORM**

February 2014

ICS 29.060.10

Supersedes EN 60317-38:1994 + A1:1998 + A2:2000

English version

Specifications for particular types of winding wires -Part 38: Polyester or polyesterimide overcoated with polyamide-imide, enamelled round copper wire, class 200, with a bonding layer

(IEC 60317-38:2013)

Spécifications pour types particuliers de fils de bobinage -Partie 38: Fil de section circulaire en cuivre émaillé avec polyester ou polyesterimide et avec surcouche polyamide-imide, classe 200, avec une couche adhérente

Technische Lieferbedingungen für bestimmte Typen von Wickeldrähten -Teil 38: Runddrähte aus Kupfer, verzinnbar und verbackbar, lackisoliert mit Polyester oder Polyesterimid und darüber mit Polyamidimid, Klasse 200 (IEC 60317-38:2013)

(CEI 60317-38:2013) Teh STANDARD

(standards.iteh.ai)

SIST EN 60317-38:2014

https://standards.iteh.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014

This European Standard was approved by CENELEC on 2013-11-18. 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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 55/1419/FDIS, future edition 2 of IEC 60317-38, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-38:2014.

The following dates are fixed:

•	latest date by which the document has to be	(dop)	2014-08-18
	implemented at national level by		
	publication of an identical national		
	standard or by endorsement		

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

This document supersedes EN 60317-38:1994.

EN 60317-38:2014 includes the following significant technical changes with respect to EN 60317-38:1994:

- new 3.2.2 containing general notes on winding wire, formerly a part of the scope;
- revision to references to EN 60317-0-1: 2014 to clarify that their application is normative;
- new Clause 23, Pin hole test.

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.

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. https://standards.itch.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014

Endorsement notice

The text of the International Standard IEC 60317-38:2013 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 (not modified).
IEC 60317 Series NOTE Harmonized as EN 60317 Series (not modified).
IEC 60851 Series NOTE Harmonized as EN 60851 Series (not modified).

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 60317-0-1	2013	Specifications for particular types of winding wires - Part 0-1: General requirements - Enamelled round copper wire	EN 60317-0-1	2014

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60317-38:2014 https://standards.iteh.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014 SIST EN 60317-38:2014

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN 60317-38:2014 https://standards.iteh.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-07af132a1399/sist-en-60317-38-2014



IEC 60317-38

Edition 2.0 2013-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Specifications for particular types of winding wires VIEW
Part 38: Polyester or polyesterimide overcoated with polyamide-imide, enamelled round copper wire, class 200, with a bonding layer

Spécifications pour types particuliers de fils de bobinage - b70-Partie 38: Fil de section circulaire en cuivre émaillé avec polyester ou polyesterimide et avec surcouche polyamide-imide, classe 200, avec une couche

adhérente

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

PRICE CODE
CODE PRIX

M

ICS 29.060.10

ISBN 978-2-8322-1139-7

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

FΟ	REWORD	3
INT	FRODUCTION	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	
	3.3 Appearance	
4	Dimensions	
5	Electrical resistance	
6	Elongation	
7	Springiness	
8	Flexibility and adherence	7
9	Heat shock	
10	Cut-through	7
11	Resistance to abrasion (nominal conductor diameters from 0,250 mm up to and including 1,600 mm)	7
12	including 1,600 mm) (standards.iteh.ai) Resistance to solvents	8
13	Breakdown voltage SIST EN-60317-38:2014	8
14		8
15	Temperature index07af132a1399/sist-en-60317-38-2014	8
16	Resistance to refrigerants	8
17	Solderability	
18	Heat or solvent bonding	
	18.1 Heat bonding	
	18.1.1 Heat bonding strength of a helical coil	
	18.1.2 Bond strength on a twisted coil	10
	18.2 Solvent bonding	
19	Dielectric dissipation factor	11
20	Resistance to transformer oil	11
21	Loss of mass	11
23	Pin hole test	11
30	Packaging	11
Bib	liography	12
Tak	ble 1 – Resistance to abrasion	8
Tab	ble 2 – Loads	10

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES -

Part 38: Polyester or polyesterimide overcoated with polyamide-imide, enamelled round copper wire, class 200, with a bonding layer

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
- 4) In order to promote international uniformity, IEC National Committee's 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 on regional publication shall be clearly indicated in the latter.

 https://standards.itch.ai/catalog/standards/sist/48b99f03-c9b1-45af-9b70-
- 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 60317-38 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 1992, Amendment 1:1997 and Amendment 2:1999. This edition constitutes a technical revision.

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

- new 3.2.2 containing general notes on winding wire, formerly a part of the scope;
- revision to references to IEC 60317-0-1:2013 to clarify that their application is normative;
- new Clause 23, Pin hole test.