



SLOVENSKI STANDARD
SIST EN 60317-47:2014

01-april-2014

Nadomešča:
SIST EN 60317-47:2001

Specifikacije za posebne vrste navijalnih žic - 47. del: Z aromatskim poliimidom emajlirana pravokotna bakrena žica, razred 240 (IEC 60317-47:2013)

Specifications for particular types of winding wires - Part 47: Aromatic polyimide enamelled rectangular copper wire, class 240

/ **iTeh STANDARD PREVIEW**
(standards.iteh.ai)
/

[SIST EN 60317-47:2014](https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-2014/sist/en/60317-47:2014)

[https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-](https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-2014/sist/en/60317-47:2014)

Ta slovenski standard je istoveten z: EN 60317-47:2014

ICS:

29.060.10 Žice

Wires

SIST EN 60317-47:2014

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

SIST EN 60317-47:2014

<https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-8e8ff2a0d4d1/sist-en-60317-47-2014>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 60317-47

February 2014

ICS 29.060.10

Supersedes EN 60317-47:1997

English version

**Specifications for particular types of winding wires -
Part 47: Aromatic polyimide enamelled rectangular copper wire, class 240
(IEC 60317-47:2013)**

Spécifications pour types particuliers de
fils de bobinage -
Partie 47: Fil de section rectangulaire en
cuivre émaillé avec polyimide aromatique,
classe 240
(CEI 60317-47:2013)

Technische Lieferbedingungen für
bestimmte Typen von Wickeldrähten -
Teil 47: Flachdrähte aus Kupfer,
lackisoliert mit aromatischen Polyimiden,
Klasse 240
(IEC 60317-47:2013)

**iTeh STANDARD PREVIEW
(standards.iteh.ai)**

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 55/1421/FDIS, future edition 2 of IEC 60317-47, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-47:2014.

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) 2014-08-18
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-11-18

This document supersedes EN 60317-47:1997.

EN 60317-47:2014 includes the following significant technical changes with respect to EN 60317-47:1997:

- deletion of the "in some countries" statement in the scope;
- new subclause containing general notes on winding wire, formerly a part of the scope;
- new subclause containing requirements for appearance;
- revision to the notes in Clause 19 Dielectric dissipation factor;
- new Clause 23, Pin hole test.

This standard is to be read in conjunction with EN 60317-0-2:2014.

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.

Endorsement notice

The text of the International Standard IEC 60317-47:2013 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>	<u>EN/HD</u>	<u>Year</u>
IEC 60317-0-2	2013	Specifications for particular types of winding wires - Part 0-2: General requirements - Enamelled rectangular copper wire	EN 60317-0-2	2014

iTeh STANDARD PREVIEW **(standards.iteh.ai)**

[SIST EN 60317-47:2014](https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-8e8f2a0d4d1/sist-en-60317-47-2014)

<https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-8e8f2a0d4d1/sist-en-60317-47-2014>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN 60317-47:2014](#)

<https://standards.iteh.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-8e8ff2a0d4d1/sist-en-60317-47-2014>



IEC 60317-47

Edition 2.0 2013-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Specifications for particular types of winding wires –
Part 47: Aromatic polyimide enamelled rectangular copper wire, class 240**

**Spécifications pour types particuliers de fils de bobinage –
Partie 47: Fil de section rectangulaire en cuivre émaillé avec polyimide
aromatique, classe 240**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

J

ICS 29.060.10

ISBN 978-2-8322-1137-3

**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 reference.....	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.....	6
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.....	7
11 Resistance to abrasion.....	7
12 Resistance to solvents.....	7
13 Breakdown voltage.....	7
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
21 Loss of mass.....	8
23 Pin hole test.....	8
30 Packaging.....	8
Bibliography.....	9

iTech STANDARD PREVIEW

(standards.itech.ai)

SIST EN 60317-47:2014

<https://standards.itech.ai/catalog/standards/sist/c92e453e-a5ac-4789-b294-8e812a0d4d1/sist-en-60317-47-2014>

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 47: Aromatic polyimide enamelled rectangular copper wire, class 240

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 60317-47 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 1997. This edition constitutes a technical revision.

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

- deletion of the "in some countries" statement in the scope;
- new subclause containing general notes on winding wire, formerly a part of the scope;
- new subclause containing requirements for appearance;
- revision to the notes in Clause 19, Dielectric dissipation factor;
- new Clause 23, Pin hole test.