

<b>STN</b>	<b>Špecifikácie jednotlivých typov vodičov na vinutia. Časť 52: Medený vodič kruhového prierezu ovinutý páskou z aromatického polyamidu (aramidu), teplotný index 220.</b>	<b>STN EN 60317-52</b>  34 7307
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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. 10/14

Obsahuje: EN 60317-52:2014, IEC 60317-52:2014

Oznámením tejto normy sa od 21.03.2017 ruší  
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Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014  
Podľa zákona č. 264/1999 Z. z. v znení neskorších predpisov sa môžu slovenské technické normy rozmnožovať a rozširovať iba so súhlasom Úradu pre normalizáciu, metrológiu a skúšobníctvo SR.

EUROPEAN STANDARD

**EN 60317-52**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2014

ICS 29.060.10

Supersedes EN 60317-52:1999

English Version

**Specifications for particular types of winding wires - Part 52:  
Aromatic polyamide (aramid) tape wrapped round copper wire,  
temperature index 220  
(IEC 60317-52:2014)**

Spécifications pour types particuliers de fils de bobinage -  
Partie 52: Fil de section circulaire en cuivre enveloppé avec  
un ruban polyamide aromatique (aramide), d'indice de  
température 220  
(CEI 60317-52:2014)

Technische Lieferbedingungen für bestimmte Typen von  
Wickeldrähten - Teil 52: Runddrähte aus Kupfer, umwickelt  
mit Band aus aromatischen Polyamiden, Temperaturindex  
220  
(IEC 60317-52:2014)

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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 55/1395/CDV, future edition 2 of IEC 60317-52, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-52:2014.

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) 2014-12-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-03-21

This document supersedes EN 60317-52:1999.

EN 60317-52:2014 includes the following significant technical changes with respect to EN 60317-52:1999:

- new 3.2.2 containing general notes on winding wire, formerly a part of the scope;
- new 3.3, containing requirements for appearance;
- modification to Clause 15 to delete the note on revisions to IEC 60172;
- 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.

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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 (not modified).
IEC 60317 Series	NOTE	Harmonized as EN 60317 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>
ISO 3	1973	Preferred numbers - Series of preferred numbers	-	-
IEC 60172		Test procedure for the determination of the temperature index of enamelled winding wires	EN 60172	
IEC 60819-3-3	2011	Non-cellulosic papers for electrical purposes - Part 3: Specifications for individual materials - Sheet 3: Unfilled aramid (aromatic polyamide) papers	EN 60819-3-3	2011
IEC 60851	(Series)	Winding wires - Test methods	EN 60851-6	(Series)



# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Specifications for particular types of winding wires –  
Part 52: Aromatic polyamide (aramid) tape wrapped round copper wire,  
temperature index 220**

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Partie 52: Fil de section circulaire en cuivre enveloppé avec un ruban polyamide  
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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Specifications for particular types of winding wires –  
Part 52: Aromatic polyamide (aramid) tape wrapped round copper wire,  
temperature index 220**

**Spécifications pour types particuliers de fils de bobinage –  
Partie 52: Fil de section circulaire en cuivre enveloppé avec un ruban polyamide  
aromatique (aramide), d'indice de température 220**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATIONS FOR PARTICULAR  
TYPES OF WINDING WIRES –****Part 52: Aromatic polyamide (aramid) tape wrapped  
round copper wire, temperature index 220**

## FOREWORD

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International Standard IEC 60317-52 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 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;
- new 3.3, containing requirements for appearance;
- modification to Clause 15 to delete the note on revisions to IEC 60172;

– new Clause 23, Pin hole test.

The text of this standard is based on the following documents:

CDV	Report on voting
55/1395/CDV	55/1457/RVC

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

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

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.

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

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

## INTRODUCTION

This part of IEC 60317 is one of a series which deals with insulated wires used for windings in electrical equipment. The series has three groups describing:

- 1) Winding wires – Test methods (IEC 60851);
- 2) Specifications for particular types of winding wires (IEC 60317);
- 3) Packaging of winding wires (IEC 60264).

## SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

### Part 52: Aromatic polyamide (aramid) tape wrapped round copper wire, temperature index 220

#### 1 Scope

This part of IEC 60317 specifies requirements for tape wrapped round copper winding wire of temperature index 220. The insulation consists of one or more wrappings of aromatic polyamide (aramid) tape of various thicknesses.

NOTE The heat shock test is inappropriate for this type of wire. 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 diameters covered by this standard is:

- 1,600 mm up to and including 5,000 mm;
- the nominal conductor diameters are given in Table 1.

#### 2 Normative references

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.

IEC 60172, *Test procedure for the determination of the temperature index of enamelled winding wires*

IEC 60819-3-3:2011, *Non-cellulosic papers for electrical purposes – Part 3: Specifications for individual materials – Sheet 3: Unfilled aramid (aromatic polyamide) papers*

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

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