

<b>STN</b>	<b>Špecifikácie jednotlivých typov vodičov na vinutia. Časť 28: Medený vodič pravouhlého prierezu lakovaný polyesterimidom, trieda 180.</b>	<b>STN EN 60317-28</b>  34 7307
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Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Obsahuje: EN 60317-28:2014, IEC 60317-28:2013

Oznámením tejto normy sa od 14.11.2016 ruší  
STN EN 60317-28 (34 7307) z januára 2001

**119167**

English version

**Specifications for particular types of winding wires -  
Part 28: Polyesterimide enamelled rectangular copper wire, class 180  
(IEC 60317-28:2013)**

Spécifications pour types particuliers de  
fils de bobinage -  
Part 28: Fil de section rectangulaire en  
cuivre émaillé avec polyesterimide, classe  
180  
(CEI 60317-28:2013)

Festlegungen für bestimmte Typen von  
Wickeldrähten -  
Teil 28: Flachdrähte aus Kupfer,  
lackisoliert mit Polyesterimid, Klasse 180  
(IEC 60317-28:2013)

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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 55/1415/FDIS, future edition 2 of IEC 60317-28, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-28:2014.

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) 2014-08-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-11-14

This document supersedes EN 60317-28:1996.

EN 60317-28:2014 includes the following significant technical changes with respect to EN 60317-28:1996:

- new subclause containing general notes on winding wire, formerly a part of the scope;
- revision to references to EN 60317-0-2:2014 to clarify that their application is normative;
- new 3.3, Appearance;
- deletion of Clause 22, High temperature failure;
- modification to 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.

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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).
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



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Specifications for particular types of winding wires –  
Part 28: Polyesterimide enamelled rectangular copper wire, class 180**

**Spécifications pour types particuliers de fils de bobinage –  
Partie 28: Fil de section rectangulaire en cuivre émaillé avec polyesterimide,  
classe 180**





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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Specifications for particular types of winding wires –  
Part 28: Polyesterimide enamelled rectangular copper wire, class 180**

**Spécifications pour types particuliers de fils de bobinage –  
Partie 28: Fil de section rectangulaire en cuivre émaillé avec polyesterimide,  
classe 180**

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**J**

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ICS 29.060.10

ISBN 978-2-8322-1143-4

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –****Part 28: Polyesterimide enamelled rectangular copper wire, class 180**

## FOREWORD

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International Standard IEC 60317-28 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 1990, Amendment 1:1997 and Amendment 2:2007. This edition constitutes a technical revision.

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

- new subclause containing general notes on winding wire, formerly a part of the scope;
- revision to references to IEC 60317-0-2:2013 to clarify that their application is normative;
- new 3.3, Appearance;
- deletion of Clause 22, High temperature failure;
- modification to Clause 23, Pin hole test.

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

FDIS	Report on voting
55/1415/FDIS	55/1436/RVD

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.

This International standard is to be read in conjunction with the IEC 60317-0-2:2013.

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 series, 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 28: Polyesterimide enamelled rectangular copper wire, class 180

#### 1 Scope

This part of IEC 60317 specifies the requirements of enamelled rectangular copper winding wire of class 180 with a sole coating based on polyesterimide resin, which may be modified providing it retains the chemical identity of the original resin and meets all specified wire requirements.

NOTE A modified resin is a resin that has undergone a chemical change, or contains one or more additives to enhance certain performance or application characteristics.

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

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

Wires of grade 1 and grade 2 are included in this specification and apply to the complete range of conductors.

The specified combinations of width and thickness as well as the specified width/thickness ratio are given in IEC 60317-0-2:2013.

#### 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 60317-0-2:2013, *Specifications for particular types of winding wires – Part 0-2: General requirements – Enamelled rectangular copper wire*

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