

**Eritüüpi mähisejuhtmete tunnussuurused. Osa 17:
Ristkülikulise ristlõikega, polüvinüülatsetaalemailiga
kaetud vaskjuhe, klass 105**

Specifications for particular types of winding wires - Part 17:
Polyvinyl acetal enamelled rectangular copper wire,
class 105

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 60317-17:2010 sisaldab Euroopa standardi EN 60317-17:2010 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.05.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 12.02.2010.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 60317-17:2010 consists of the English text of the European standard EN 60317-17:2010.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.05.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 12.02.2010.

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**Specifications for particular types of winding wires -
Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105
(IEC 60317-17:2010)**

Spécifications pour types particuliers
de fils de bobinage -
Partie 17: Fil de section rectangulaire
en cuivre émaillé avec acétal
de polyvinyle, classe 105
(CEI 60317-17:2010)

Technische Lieferbedingungen
für bestimmte Typen von Wickeldrähten -
Teil 17: Flachdrähte aus Kupfer,
lackisoliert mit Polyvinylazetat, Klasse 105
(IEC 60317-17:2010)

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

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Foreword

The text of document 55/1180/FDIS, future edition 3 of IEC 60317-17, prepared by IEC TC 55, Winding wires, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60317-17 on 2010-05-01.

This European Standard supersedes EN 60317-17:1994 + A1:1998 + A2:2005.

The main change with respect to EN 60317-17:1994 is listed below:

- Clause 20: reference to the transformer oil resistance test method in EN 60851-4.

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

The following dates were fixed:

- | | | |
|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2011-02-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2013-05-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60317-17:2010 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 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	1997	Specifications for particular types of	EN 60317-0-2	1998
+ A1	1999	winding wires -	+ A1	2000
+ A2	2005	Part 0-2: General requirements - Enamelled rectangular copper wire	+ A2	2005
IEC 60851-4	1996	Winding wires - Test methods -	EN 60851-4	1996
+ A1	1997	Part 4: Chemical properties	+ A1	1997
+ A2	2005		+ A2	2005

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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 and test methods (IEC 60851);
- 2) specifications for particular types of winding wire (IEC 60317);
- 3) packaging of winding wires (IEC 60264).

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SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 17: Polyvinyl acetal enamelled rectangular copper wire, class 105

1 Scope

This part of IEC 60317 specifies the requirements of enamelled rectangular copper winding wire of class 105 with a sole coating based on polyvinyl acetal 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.

Class 105 is a thermal class that requires a minimum temperature index of 105 and a heat shock temperature of at least 155 °C.

The temperature in degrees Celsius corresponding to the temperature index is not necessarily that at which it is recommended that the wire be operated and this will depend on many factors, including the type of equipment involved.

The range of nominal conductor dimensions covered by this standard is

- width: min. 2,00 mm max. 16,00 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 ratio width/thickness are given in IEC 60317-0-2.

2 Normative references

The following referenced documents are indispensable for the application 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.

IEC 60317-0-2:1997, *Specifications for particular types of winding wires – Part 0-2: General requirements – Enamelled rectangular copper wire*

Amendment 1 (1999)

Amendment 2 (2005)

IEC 60851-4:1996, *Methods of test for winding wires – Part 4: Chemical properties*

Amendment 1 (1997)

Amendment 2 (2005)