

**Specifications for particular types of winding wires - Part  
20: Solderable polyurethane enamelled round copper  
wire, class 155**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 60317-20:2014 sisaldab Euroopa standardi EN 60317-20:2014 ingliskeelset teksti.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.02.2014.

Standard on kättesaadav Eesti Standardikeskusest.

This Estonian standard EVS-EN 60317-20:2014 consists of the English text of the European standard EN 60317-20:2014.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.

Date of Availability of the European standard is 14.02.2014.

The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile [standardiosakond@evs.ee](mailto:standardiosakond@evs.ee).

ICS 29.060.10

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**Specifications for particular types of winding wires -  
Part 20: Solderable polyurethane enamelled round copper wire, class 155  
(IEC 60317-20:2013)**

Spécifications pour types particuliers de  
fils de bobinage -  
Partie 20: Fil brasable de section circulaire  
en cuivre émaillé avec polyuréthane,  
classe 155  
(CEI 60317-20:2013)

Technische Lieferbedingungen für  
bestimmte Typen von Wickeldrähten -  
Teil 20: Runddrähte aus Kupfer,  
verzinnbar, lackisoliert mit Polyurethan,  
Klasse 155  
(IEC 60317-20:2013)

This European Standard was approved by CENELEC on 2013-11-14. 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.

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Europäisches Komitee für Elektrotechnische Normung

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

## Foreword

The text of document 55/1411/FDIS, future edition 3 of IEC 60317-20, prepared by IEC/TC 55 "Winding wires" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60317-20:2014.

The following dates are fixed:

- latest date by which the document has to be (dop) 2014-08-14  
implemented at national level by  
publication of an identical national  
standard or by endorsement
- latest date by which the national (dow) 2016-11-14  
standards conflicting with the  
document have to be withdrawn

This document supersedes EN 60317-20:1995.

EN 60317-20:2014 includes the following significant technical changes with respect to EN 60317-20:1995:

- 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;
- modification to Clause 15 to remove specific wire specimen sizes;
- consolidation of 17.1 and 17.2 of the solderability requirements;
- modification to Clause 19, Dielectric dissipation factor;
- 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.

## Endorsement notice

The text of the International Standard IEC 60317-20:2013 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 60317-0-1      | 2013        | Specifications for particular types<br>of winding wires -<br>Part 0-1: General requirements - Enamelled<br>round copper wire | EN 60317-0-1 | 2014        |

## CONTENTS

|                                                                                                          |    |
|----------------------------------------------------------------------------------------------------------|----|
| FOREWORD.....                                                                                            | 3  |
| INTRODUCTION.....                                                                                        | 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.....                                                                                  | 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 (nominal conductor diameters from 0,250 mm up to and including 0,800 mm) ..... | 7  |
| 12 Resistance to solvents.....                                                                           | 8  |
| 13 Breakdown voltage .....                                                                               | 8  |
| 14 Continuity of insulation .....                                                                        | 8  |
| 15 Temperature index .....                                                                               | 8  |
| 16 Resistance to refrigerants.....                                                                       | 8  |
| 17 Solderability .....                                                                                   | 8  |
| 17.1 Nominal conductor diameters up to and including 0,100 mm.....                                       | 8  |
| 17.2 Nominal conductor diameters over 0,100 mm .....                                                     | 9  |
| 18 Heat or solvent bonding.....                                                                          | 9  |
| 19 Dielectric dissipation factor.....                                                                    | 9  |
| 20 Resistance to transformer oil.....                                                                    | 9  |
| 21 Loss of mass .....                                                                                    | 9  |
| 23 Pin hole test .....                                                                                   | 9  |
| 30 Packaging .....                                                                                       | 9  |
| Bibliography.....                                                                                        | 10 |
| Table 1 – Resistance to abrasion.....                                                                    | 8  |

## 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).