

Winding wires - Test methods - Part 1: General

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

|                                                                                                                     |                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
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ICS 29.060.10

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English Version

Winding wires - Test methods - Part 1: General  
(IEC 60851-1:2021)

Fils de bobinage - Méthodes d'essai - Partie 1: Généralités  
(IEC 60851-1:2021)

Wickeldrähte - Prüfverfahren - Teil 1: Allgemeines  
(IEC 60851-1:2021)

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## European foreword

The text of document 55/1913/FDIS, future edition 3 of IEC 60851-1, prepared by IEC/TC 55 “Winding wires” was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60851-1:2021.

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) 2022-04-21
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-07-21

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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)

IEC 60851 (series) NOTE Harmonized as EN 60851 (series)

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>                                                       | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--------------------------------------------------------------------|--------------|-------------|
| IEC 60317          | series      | Specifications for particular types of winding wires               | EN 60317     | series      |
| IEC 60851-2        | 2009        | Winding wires - Test methods - Part 2: Determination of dimensions | EN 60851-2   | 2009        |
| + A1               | 2015        |                                                                    | + A1         | 2015        |
| + A2               | 2019        |                                                                    | + A2         | 2019        |
| IEC 60851-3        | 2009        | Winding wires - Test methods - Part 3: Mechanical properties       | EN 60851-3   | 2009        |
| + A1               | 2013        |                                                                    | + A1         | 2013        |
| + A2               | 2019        |                                                                    | + A2         | 2019        |
| IEC 60851-4        | 2016        | Winding wires - Test methods - Part 4: Chemical properties         | EN 60851-4   | 2016        |
| IEC 60851-5        | 2008        | Winding wires - Test methods - Part 5: Electrical properties       | EN 60851-5   | 2008        |
| + A1               | 2011        |                                                                    | + A1         | 2011        |
| + A2               | 2019        |                                                                    | + A2         | 2019        |
| IEC 60851-6        | 2012        | Winding wires - Test methods - Part 6: Thermal properties          | EN 60851-6   | 2012        |

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Winding wires – Test methods –  
Part 1: General**

**Fils de bobinage – Méthodes d'essai –  
Partie 1: Généralités**



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IEC Central Office  
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CH-1211 Geneva 20  
Switzerland

Tel.: +41 22 919 02 11  
[info@iec.ch](mailto:info@iec.ch)  
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# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Winding wires – Test methods –  
Part 1: General**

**Fils de bobinage – Méthodes d'essai –  
Partie 1: Généralités**

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**WINDING WIRES – TEST METHODS –****Part 1: General****FOREWORD**

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IEC 60851-1 has been prepared by IEC technical committee 55: Winding wires. It is an International Standard.

This third edition cancels and replaces the second edition published in 1996, and its amendment 1:2003 and amendment 2:2009. This edition constitutes a technical revision.

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

- a) revision to Clause 2 to update the list of normative references;
- b) revision to 3.2 atmospheric conditions for testing;
- c) addition to 3.2 with remarks concerning frequency and management of tests;
- d) revision to Annex A to update the contents list of IEC 60851 series of tests.

The text of this International Standard is based on the following documents:

| FDIS         | Report on voting |
|--------------|------------------|
| 55/1913/FDIS | 55/1916/RVD      |

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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A list of all parts in the IEC 60851 series, published under the general title *Winding wires – Test methods*, can be found on the IEC website.

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- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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## INTRODUCTION

This Part of IEC 60851 forms an element of a series of standards which deals with insulated wires used for windings in electrical equipment. It is composed of the following series:

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