

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Specifications for particular types of winding wires –
Part 0-3: General requirements – Enamelled round aluminium wire**

**Spécifications pour types particuliers de fils de bobinage –
Partie 0-3: Exigences générales – Fil de section circulaire en aluminium émaillé**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms, definitions, general notes, and appearance.....	7
3.1 Terms and definitions.....	7
3.2 General notes	8
3.2.1 Methods of test.....	8
3.2.2 Winding wire.....	9
3.3 Appearance	9
4 Dimensions.....	9
4.1 Conductor diameter	9
4.2 Out of roundness of conductor	11
4.3 Minimum increase in diameter due to the insulation and the bonding layer.....	11
4.3.1 Enamelled wires without a bonding layer	11
4.3.2 Enamelled wires with a bonding layer	11
4.4 Maximum overall diameter	11
4.4.1 Enamelled wires without a bonding layer	11
4.4.2 Enamelled wires with a bonding layer	12
5 Electrical resistance	12
6 Elongation	12
7 Springiness	12
8 Flexibility and adherence.....	12
8.1 Mandrel winding test (nominal conductor diameters up to and including 1,600 mm)	12
8.2 Stretching test (nominal conductor diameters over 1,600 mm)	13
8.3 Jerk test (nominal conductor diameters up to and including 1,000 mm).....	13
8.4 Peel test (nominal conductor diameters over 1,000 mm)	13
9 Heat shock	13
9.1 Nominal conductor diameters up to and including 1,600 mm.....	13
9.2 Nominal conductor diameters over 1,600 mm.....	13
10 Cut-through	13
11 Resistance to abrasion	13
12 Resistance to solvents.....	13
13 Breakdown voltage	14
13.1 General.....	14
13.2 Nominal conductor diameters up to and including 2,500 mm	14
13.3 Nominal conductor diameters over 2,500 mm.....	14
14 Continuity of insulation (nominal conductor diameters up to and including 1,600 mm).....	15
15 Temperature index	15
16 Resistance to refrigerants.....	15
17 Solderability	15
18 Heat or solvent bonding.....	15
19 Dielectric dissipation factor.....	16

20	Resistance to transformer oil	16
21	Loss of mass	16
23	Pin hole test	16
30	Packaging	16
Annex A (informative) Dimensions for intermediate nominal conductor diameters		
(R 40)	17
A.1	General.....	17
A.2	Enamelled wires without a bonding layer.....	17
A.3	Enamelled wires with a bonding layer	18
Annex B (normative) Method for the calculation of linear resistance..... 19		
Annex C (informative) Resistance		
		20
Bibliography.....		
		21
Table 1	– Dimensions of enamelled wires (R 20).....	10
Table 2	– Dimensions of enamelled wires with a bonding layer (R 20)	11
Table 3	– Elongation	12
Table 4	– Mandrel winding	12
Table 5	– Heat shock	13
Table 6	– Breakdown voltage	14
Table 7	– Breakdown voltage	15
Table 8	– Continuity of insulation	15
Table A.2	– Dimensions of enamelled wires with a bonding layer (R 40)	18
Table C.1	– Electrical resistances	20

INTERNATIONAL ELECTROTECHNICAL COMMISSION

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –**Part 0-3: General requirements – Enamelled round aluminium wire**

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IEC 60317-0-3 has been prepared by IEC technical committee 55: Winding wires. It is an International Standard.

This fourth edition cancels and replaces the third edition published in 2008, Amendment 1:2013 and Amendment 2:2019. This edition constitutes a technical revision.

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

- a) Revision to Clause 7, designating the test as inappropriate;
- b) Revision to Clause 10, designating the test as inappropriate.

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

Draft	Report on voting
55/2049/FDIS	55/2054/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. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

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 document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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INTRODUCTION

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This part of IEC 60317 is one of a series that 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 wires (IEC 60317);
- 3) packaging of winding wires (IEC 60264).

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

Part 0-3: General requirements – Enamelled round aluminium wire

1 Scope

This part of IEC 60317 specifies the general requirements of enamelled round aluminium winding wires with or without a bonding layer.

The range of nominal conductor diameters is given in the relevant specification sheet.

2 Normative references

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.

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

IEC 60317 (all parts), *Specifications for particular types of winding wires*

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

ISO 3, *Preferred numbers – Series of preferred numbers*

ASTM B233-97, *Standard Specification for Aluminum 1350 Drawing Stock for Electrical Purposes*

EN 1715-2, *Aluminium and aluminium alloys – Drawing stock – Part 2: Specific requirements for electrical applications*

3 Terms, definitions, general notes, and appearance

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1.1

bonding layer

material which is deposited on an enamelled wire, and which has the specific function of bonding wires together