



IEC 60317-46

Edition 2.1 2024-06  
CONSOLIDATED VERSION

# INTERNATIONAL STANDARD



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**Specifications for particular types of winding wires –  
Part 46: Aromatic polyimide enamelled round copper wire, class 240**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 29.060.10

ISBN 978-2-8322-9274-7

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

#### Part 46: Aromatic polyimide enamelled round copper wire, class 240

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**IEC 60317-46 edition 2.1 contains the second edition (2013-10) [documents 55/1420/FDIS and 55/1441/RVD] and its amendment 1 (2024-06) [documents 55/1993/CDV and 55/2029/RVC].**

**In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.**

International Standard IEC 60317-46 has been prepared by IEC technical committee 55: Winding wires.

This second edition cancels and replaces the first edition published in 1997. This edition constitutes a technical revision.

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

- deletion of the “in some countries” statement in the scope;
- new subclause containing general notes on winding wire, formerly a part of the scope;
- new subclause containing requirements for appearance;
- revision to the notes in Clause 19, Dielectric dissipation factor;
- new Clause 23, Pin-hole test.

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 60317-0-1:2013 and its Amendment 1:2019.

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 document and its amendment will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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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 – 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 46: Aromatic polyimide enamelled round copper wire, class 240

#### 1 Scope

This part of IEC 60317 specifies the requirements of enamelled round copper winding wire of class 240 with a sole coating of aromatic polyimide resin.

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

- grade 1: 0,020 mm up to and including 2,000 mm;
- grade 2: 0,020 mm up to and including 5,000 mm.

The nominal conductor diameters are specified in Clause 4 of IEC 60317-0-1:2013.

#### 2 Normative reference

~~The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application.~~ 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 60317-0-1<sup>1</sup>:2013, *Specifications for particular types of winding wires – Part 0-1: General requirements – Enamelled round copper wire*.  
IEC 60317-0-1:2013/AMD1:2019

<sup>1</sup> There exists a consolidated edition 4.1:2021 that includes IEC 60317-0-1:2013 and its Amendment 1:2019.

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