

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Specifications for particular types of winding wires –  
Part 80: Polyvinyl acetal enamelled rectangular copper wire, class 120,  
with a bonding layer**

**Spécifications pour types particuliers de fils de bobinage –  
Partie 80: Fil de section rectangulaire en cuivre émaillé avec acétal  
de polyvinyle, classe 120, avec une couche adhérente**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –****Part 80: Polyvinyl acetal enamelled rectangular copper wire,  
class 120, with a bonding layer**

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International Standard IEC 60317-80 has been prepared by IEC technical committee 55: Winding wires.

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

FDIS	Report on voting
55/1790/FDIS	55/1802/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This International Standard is to be read in conjunction with IEC 60317-0-2:2019.

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 numbering of clauses in this standard is not continuous from Clauses 21 through 30 in order to reserve space for possible future wire requirements prior to those for wire packaging.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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- withdrawn,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

This part of IEC 60317 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).

## SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES –

### Part 80: Polyvinyl acetal enamelled rectangular copper wire, class 120, with a bonding layer

#### 1 Scope

This part of IEC 60317 specifies the requirements of enamelled rectangular copper winding wire of class 120 with a dual coating. The underlying coating is based on polyvinyl acetate resin, which can be modified providing it retains the chemical identity of the original resin and meets all specified wire requirements. The second coating is a bonding layer based on a thermoplastic or thermosetting resin.

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.

The range of nominal conductor dimensions covered by this document 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 nominal width and thickness as well as the specified ratio width/thickness are given in IEC 60317-0-2:2019.

#### 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 60317-0-2:2019<sup>1</sup>, *Specifications for particular types of winding wires – Part 0-2: General requirements – Enamelled rectangular copper wire*

IEC 60851-4:2006, *Winding wires – Test methods – Part 4: Chemical properties*

#### 3 Terms, definitions, general notes and appearance

##### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60317-0-2:2019 apply.

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

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<sup>1</sup> Under preparation. Stage at the time of publication: IEC CDV 60317-0-2:2019.