

(PREVIEW)

Indian Standard

SPECIFICATIONS FOR PARTICULAR TYPES OF WINDING WIRES

PART 34 POLYESTER ENAMELLED ROUND COPPER WIRE, CLASS 130 L

1 Scope

This part of IEC 317 specifies the requirements of enamelled round copper winding wire of class 130 L with a sole coating based on polyester resin, which may be modified providing it retains the chemical identity of the original resin and meets all specified wire requirements.

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.

Class 130 L is a thermal class that requires a minimum temperature index of 130 and a heat shock temperature of at least 155 °C.

NOTE - This type of enamelled wire has lower heat shock performance compared to polyester enamelled round copper wire class 130 according to IEC 317-45.

The temperature in degrees Celsius corresponding to the temperature index is not necessarily that at which it is recommended that the wire be used and this will depend on many factors, including the type of equipment involved.

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

- grade 1: 0,050 mm up to and including 3,150 mm;
- grade 2: 0,050 mm up to and including 5,000 mm.

The nominal conductor diameters are specified in clause 4 of IEC 317-0-1.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this part of IEC 317. At the time of publication, the edition indicated was valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 317 are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. Members of IEC and ISO maintain registers of

currently valid International Standards.

IEC 317-0-1: 1990, *Specifications for particular types of winding wires - Part 0: General requirements - Section 1: Enamelled round copper wire.*