IS 13730 (Part 4) : 2013
IEC 60317-4 : 2000

Indian Standard

SPECIFICATION FOR PARTICULAR TYPES OF WINDING WIRES

PART 4 SOLDERABLE POLYURETHANE ENAMELLED ROUND COPPER WIRE, CLASS 130

(First Revision)

1 Scope

This International Standard specifies the requirements of solderable enamelled round copper winding wire of class 130 with a sole coating based on polyurethane resin, which may be modified provided 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 is a thermal class that requires a minimum temperature index of 130 and a heat shock temperature of at least 155 °C.

The temperature in degrees Celsius corresponding to the temperature index is not necessarily that at which it is recommended that the wire be operated 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: 0,018 mm up to and including 2,000 mm;
– Grade 2: 0,020 mm up to and including 2,000 mm.

The nominal conductor diameters are specified in clause 4 of IEC 60317-0-1.

2 Normative references

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

IEC 60317-0-1:1990, Specifications for particular types of winding wires – Part 0: General requirements – Section 1: Enamelled round copper wire