

Indian Standard
SPECIFICATION FOR PARTICULAR TYPES OF
WINDING WIRES

PART 43 AROMATIC POLYIMIDE TAPE WRAPPED ROUND
COPPER WIRE, CLASS 240

(First Revision)

1 Scope

This part of IEC 60317 specifies requirements of tape wrapped round copper winding wire of class 240. The insulation consists of one or two wrappings of aromatic polyimide tape.

Class 240 is a thermal class that requires a temperature index of at least 240, and a heat shock temperature of at least 260 °C.

NOTE In some countries, e.g. Canada, Russia, USA, this product is assigned a class 220.

The tape is coated on one or both sides with a suitable adhesive, for instance, fluorinated ethylene propylene. After wrapping, the tape is heat-sealed to form a continuous and adherent sheath. Specific requirements may be subject to contract.

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

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

1,600 mm up to and including 5,000 mm.

The nominal conductor diameters are given in table 1.

When reference is made to winding wire according to this standard, the following information should be given:

- reference to IEC 60317-43;
- diameter of the conductor;
- grade.

Example: 60317-43 IEC 2,000 mm grade A2

2 Normative references

The following referenced documents are indispensable for the application 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: 1987~~, *Test procedure for the determination of the temperature index of enamelled winding wires*

IEC 60851, *Methods of test for winding wires*

ISO 3:1973, *Preferred numbers – Series of preferred numbers*