INTERNATIONAL STANDARD

IEC 60245-6

Second edition
1994-07

Rubber insulated cables –
Rated voltages up to and including 450/750 V –

Part 6:
Arc welding electrode cables

*This **English-language** version is derived from the original **bilingual** publication by leaving out all French-language pages. Missing page numbers correspond to the French-language pages.*

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FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
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International Standard IEC 245-6 has been prepared by IEC by sub-committee 20B: Low-voltage cables, of IEC technical committee 20: Electric cables.

This second edition cancels and replaces the first edition published in 1980 as well as amendment 1 (1985) and constitutes an editorial revision.

This revision contains the references to test methods published in IEC 811 instead of IEC 540 which has been withdrawn.

IEC 245 consists of the following parts, under the general title *Rubber insulated cables – Rated voltages up to and including 450/750 V:*

Part 1: 1994, General requirements

Part 2: 1994, Test methods

Part 3: 1994, Heat resistant silicone insulated cables

Part 4: 1994, Cords and flexible cables

Part 5: 1994, Lift cables

Part 6: 1994, Arc welding electrode cables

Part 7: 1994, Heat resistant ethylene-vinyl acetate rubber insulated cables.

This standard should be read in conjunction with part 1 and part 2.

RUBBER INSULATED CABLES – RATED VOLTAGES UP TO AND INCLUDING 450/750 V –

Part 6: Arc welding electrode cables

1 General

1.1 *Scope*

This part of IEC 245 details the particular specifications for rubber insulated arc welding electrode cables.

Each cable should comply with the appropriate requirements given in IEC 245-1 and the particular requirements of this part.

1.2 *Normative references*

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 245. At the time of publication, the editions indicated were valid. All normative documents are subject to revision and parties to agreements based on this part of IEC 245 are encouraged to investigate the possibility of applying the most recent editions of the normative documents listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 245-1: 1994, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 1: General requirements*

IEC 245-2: 1994, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 2: Test methods*

IEC 811-1-1: 1993, *Common test methods for insulating and sheathing materials of electric cables – Part 1: Methods for general application – Section 1: Measurement of thickness and overall dimensions – Tests for determining the mechanical properties*

IEC 811-1-2: 1985, *Common test methods for insulating and sheathing materials of electric cables – Part 1: Methods for general application – Section Two: Thermal ageing methods*

IEC 811-2-1: 1986, *Common test methods for insulating and sheathing materials of electric cables – Part 2: Methods specific to elastomeric compounds – Section One: Ozone resistance test – Hot set test – Mineral oil immersion test*