

Australian/New Zealand Standard™

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

Part 4: Cords and flexible cables



AS/NZS IEC 60245.4:2020

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee EL-003, Electric Wires And Cables. It was approved on behalf of the Council of Standards Australia on 26 November 2019 and by the New Zealand Standards Approval Board on 18 December 2019.

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The following are represented on Committee EL-003:

- Australian Cablemakers Association
- Australian Industry Group
- Electrical Compliance Testing Association of Australia
- Electrical Regulatory Authorities Council (Australia)
- Engineers Australia
- Institute of Electrical Inspectors (Australia)
- Master Electricians (New Zealand)
- National Electrical and Communications Association (Australia)
- Queensland University of Technology
- WorkSafe New Zealand

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables, to supersede AS/NZS 60245.4:2003, *Rubber insulated cables — Rated voltage up to and including 450/750 V, Part 4: Cords and flexible cables*.

The objective of this Standard is to detail the particular specifications for rubber insulated and braided cords and for rubber insulated and rubber or polychloroprene or other equivalent synthetic elastomer sheathed cords and flexible cables of rated voltages up to and including 450/750 V.

All cables should conform with the appropriate requirements given in IEC 60245-1 and the individual types of cables should each conform with the particular requirements of this part.

This Standard is identical with, and has been reproduced from, IEC 60245-4:2011, *Rubber insulated cables — Rated voltages up to and including 450/750 V — Part 4: Cords and flexible cables*.

As this document has been reproduced from an International Standard, the following applies:

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Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

Part 4: Cords and flexible cables

FOREWORD

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International Standard IEC 60245-4 has been prepared by IEC technical committee 20: Electric cables.

This third edition of IEC 60245-4 cancels and replaces the second edition published in 1994, amendment 1 (1997) and amendment 2 (2003). The document 20/1262/FDIS, circulated to the National Committees as amendment 3, led to the publication of this new edition.

The main changes with respect to the previous edition are as follows:

- updating of the normative references;
- updating of Table 3 and Table 5 on dimensions for type 53 and type 57.

The text of this standard is based on the following documents:

FDIS	Report on voting
20/1262/FDIS	20/1272/RVD

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

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

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

A list of all the parts in the IEC 60245 series, published under the general title *Rubber insulated cables* – Rated voltages up to and including 450/750 V, can be found on the IEC website.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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

Part 4: Cords and flexible cables

1 General

1.1 Scope

This part of IEC 60245 details the particular specifications for rubber insulated and braided cords and for rubber insulated and rubber or polychloroprene or other equivalent synthetic elastomer sheathed cords and flexible cables of rated voltages up to and including 450/750 V.

All cables should comply with the appropriate requirements given in IEC 60245-1 and the individual types of cables should each comply with the particular requirements of this part.

1.2 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.

NOTE The IEC 60811 series is currently undergoing a revision, which will lead to a restructuring of its parts. A description of this, as well as a cross-reference table between the current and planned parts will be given in IEC 60811-100.

IEC 60228, *Conductors of insulated cables*

IEC 60245-1:2003, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 1: General requirements*
Amendment 1:2007

IEC 60245-2:1994, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 2: Test methods*
Amendment 1:1997
Amendment 2:1997

IEC 60245-8:1998, *Rubber insulated cables – Rated voltages up to and including 450/750 V – Part 8: Cords for applications requiring high flexibility*
Amendment 1:2004
Amendment 2:2011

IEC 60811-1-1:1993, *Common test methods for insulating and sheathing materials of electric cables and optical cables – Part 1-1: Methods for general application – Measurement of thickness and overall dimensions – Tests for determining the mechanical properties*
Amendment 1:2001

IEC 60811-1-2:1985, *Common test methods for insulating and sheathing materials of electric cables – Part 1: Methods for general application – Section Two: Thermal ageing methods*
Amendment 1:1989
Amendment 2:2000

IEC 60811-1-4:1985, *Common test methods for insulating and sheathing materials of electric cables – Part 1: Methods for general application – Section Four: Tests at low temperature*
Amendment 1:1993
Amendment 2:2001