

AS/NZS 60245.4:2003

IEC 60245-4:1994

IEC 60245-4:1994/Amd 1:1997

IEC 60245-4:1994/Amd 2:2003

AS/NZS 60245.4:2003

Australian/New Zealand Standard™

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

Part 4: Cords and flexible cables



AS/NZS 60245.4:2003

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Australian Industry Group
Canterbury Manufacturers Association New Zealand
Department of Defence (Australia)
Department of Natural Resources N.S.W
Electrical Contractors Association of 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.

This Standard incorporates IEC Amendment No. 2:2003. The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide international construction and test requirements for rubber insulated flexible cords and cables as an alternative to those provided in the current Australian/New Zealand Standard, AS/NZS 3191.

This Standard is identical with, and has been reproduced from, IEC 60245-4:1994, *Rubber insulated cables—Rated voltage up to and including 450/750 V, Part 4: Cords and flexible cables* including Amendment 1:1997.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this international standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

In this Standard, the following print types are used:

- requirements proper: in arial type;
- *test specifications: in italic type;*
- explanatory matter: in smaller arial type.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
**Rubber insulated cables—Rated voltage up to and including 450/750 V
Part 4: Cords and flexible cables**

1 General**1.1 Scope**

This part of AS/NZS 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 normative documents contain provisions which, through reference in this text, constitute provisions of this part of AS/NZS 60245. 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 AS/NZS 60245 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 60228: 1978, *Conductors of insulated cables*

IEC 60245-1: 1994, *Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 1: General requirements*

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

IEC 2 | 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)

IEC 60811-1-1: 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 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*

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*

IEC 60811-2-1: 1986, *Common test methods for insulating and sheathing materials of electric cables - Part 2: Methods specific to elastomeric compounds - Section 1: Ozone resistance test - Hot set test - Mineral oil immersion test*