

AS/NZS 3000:2000
(Incorporating Amendment Nos. 1, 2 and 3)

Australian/New Zealand Standard™

Wiring rules



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Wiring Rules

AS/NZS 3000:2000

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/1. It was approved on behalf of the Council of Standards Australia on 23 August 1999 and on behalf of the Council of Standards New Zealand on 06 September 1999. It was published on 15 September 1999, however it is designated a year 2000 edition.

The following interests are represented on Committee EL/1:

The Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Electrical and Electronic Manufacturers Association
Communications, Electrical Plumbing Union
Electrical Contractors Association of New Zealand
Electrical Contractors Association Qld
Electrical Safety Organization (New Zealand)
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Australian/New Zealand Standard™

ELECTRICAL INSTALLATIONS
(known as the Australian/New Zealand
Wiring Rules)

Originated as part of AS CC1—1931.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/1, Wiring Rules, to supersede, in Australia, AS 3000 — 1991, *Electrical installations — Buildings, structures and premises (known as the SAA Wiring Rules)* and, in New Zealand, selected parts of NZS 3000:1997 *Electrical installations — Buildings, structures and premises (known as the NZS Wiring Rules)* as nominated by the appropriate regulator.

This Standard incorporates Amendment No. 1 (September 2001) and Amendment No. 2 (April 2002) and Amendment No. 3 (July 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.

This edition of the Standard is based on the following considerations:

- (a) Requests from large sections of the electrical industry for a document more relevant to the present electrical regulatory structure.
- (b) Requests for a joint Australian/New Zealand document.
- (c) Experience gained in the application of the tenth (1991) edition as expressed to Standards Australia.

During preparation of this Standard, reference was made to IEC 60364, *Electrical installations of buildings* (all parts), BS 7671:1992, *Requirements for electrical installations* and the *National Rules For Electrical Installations* (Second Edition) of Ireland, and acknowledgment is made of the assistance received from these sources.

The presentation of this edition differs from previous editions of AS 3000. Sections 1 to 5 cover essentially the same aspects of the subject as Sections 1 to 5 of the previous edition but there is no close correlation between clause numbers. Other major changes to the content of the previous edition include the following:

- (i) The introduction of internationally accepted performance based requirements for the integration of the characteristics of protective devices with the earthing system impedance (fault-loop impedance), touch-voltage limits and maximum disconnection times under fault conditions (see Clause 1.7.4.3).
- (ii) The deletion of many prescriptive 'work practices' and the allowance of alternative methods provided they satisfy the fundamental requirements of Section 1.
- (iii) The introduction of a new Section 6, covering visual inspection and testing.
- (iv) The introduction of an IEC-style Section 7 containing particular requirements for special locations and situations, e.g. swimming pools, extra-low voltage installations and emergency systems.

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