

AS/NZS 60320.1:2004

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Australian/New Zealand Standard™

**Appliance couplers for household and
similar general purposes**

**Part 1: General requirements (IEC
60320-1, Ed. 2.0 (2001) MOD)**



AS/NZS 60320.1:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 18 November 2004 and on behalf of the Council of Standards New Zealand on 3 December 2004.

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The following are represented on Committee EL-004:

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association, New Zealand
Consumer Electronic Suppliers Association
Consumers' Federation of Australia
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Part 1: General requirements (IEC 60320-1, Ed. 2.0 (2001) MOD)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories to supersede AS/NZS 3109.1:1996, *Approval and test specification—Appliance couplers for household and similar general purposes*, from the date of publication.

This Standard forms the first edition of AS/NZS 60320.1, *Appliance couplers for household and similar general purposes*, Part 1: *General requirements*.

This Standard is to be used in conjunction with the appropriate Part 2, which contains clauses that supplement or modify the corresponding clauses in Part 1, to provide the relevant requirements for each type of product.

The objective of this Standard is to provide Australian and New Zealand electrical industries, manufacturers and regulatory bodies with safety general requirements, for appliance couplers for household and similar general purposes, and which may be used as the basis for approval for sale or for connection to supply in Australia and New Zealand.

This Standard is an adoption with national modifications and has been reproduced from IEC 60320-1, Ed. 2.0 (2001), *Appliance couplers for household and similar general purposes Part 1: General requirements*.

Variations to IEC 60320-1 to take account of Australian/New Zealand conditions are indicated at the appropriate places throughout this standard. Strikethrough (**example**) identifies IEC text, tables and figures which, for the purposes of this Australian/New Zealand Standard, are deleted. Where text, tables or figures are added, each is set in its proper place and identified by shading (**example**). Added figures are not themselves shaded, but are identified by a shaded border.

Variations made to IEC 60320-1 form the Australian national variations for purposes of the CB scheme for recognition of testing to standards for safety of electrical equipment. These variations have been incorporated in the body of the Standard. They are listed in Annex ZZ for easy reference. Annex ZA covers additional Australian/New Zealand requirements for Group 2 and Group 3 appliance couplers.

This Standard was revised to adopt the latest international requirement for appliance couplers and include the following technical changes:

- (a) Insert new Clause 5.1.201 giving tolerances for testing purposes.
- (b) Adopt resistance to heat requirements of Clause 24.1.1 and Clause 24.1.2.
- (c) Adopt resistance to tracking requirements of Clause 27.2.

The essential safety requirements in AS/NZS 3820 that could be applicable to appliance couplers are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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

- (i) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (ii) A full point should be substituted for a comma when referring to a decimal marker.

- (iii) Throughout this Standard the word ‘elastomer’ should replace the word ‘rubber’. The term ‘polyvinyl chloride or similar material’ is intended to include all ‘resilient type materials’. In Clauses 15.2, 22.1, 22.3 and 22.4, replace IEC ‘Type of cord’ with the following:
- (A) 60227 IEC 41 – PVC insulated tinsel parallel 2-core unsheathed.
 - (B) 60227 IEC 52 – Light duty PVC insulated sheathed.
 - (C) 60227 IEC 53 – Ordinary duty PVC insulated sheathed.
 - (D) 60245 IEC 51 – Elastomer insulated braided.
 - (E) 60245 IEC 53 – Ordinary duty elastomer insulated sheathed.

The numbering of clauses, subclauses, notes, tables, figures and annexes follows that of IEC 60320-1. To allow for additional material to be introduced by Australia and New Zealand, the numbers 201 to 300 are used to number further clauses, subclauses, notes, tables and figures in this Standard.

This scheme has been introduced to reduce the likelihood of the IEC and Australia or New Zealand using the same clause or figure number for differing requirements. The use of the word VOID indicates that the IEC requirement is not used in Australia or New Zealand. The word is also used where the deletion of a particular requirement such as a Table would lead to the consequential renumbering of references within the body of the Standard and succeeding tables. Where Australia and New Zealand have added a requirement or made a change to a particular clause of IEC 60320-1 that clause number remains unchanged.

This Standard does not purport to include all the necessary conditions of a contract.

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