

Australian/New Zealand Standard™

**Approval and test specification—Plugs
and socket-outlets**

AS/NZS 3112:2000

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 17 December 1999 and on behalf of the Council of Standards New Zealand on 20 December 1999. It was published on 3 April 2000.

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Approval and test specification—Plugs and socket-outlets

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/4, Electrical Accessories to supersede AS/NZS 3112:1993 on publication.

This Standard incorporates Amendment No. 1 (December 2001) and Amendment No. 2 (March 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 Standard is one of a series of Approval and Test Specifications issued by Standards Australia and Standards New Zealand. In Australia, these specifications are to be read in conjunction with AS/NZS 3100, Approval and test specification—General requirements for electrical equipment. The purpose of these Specifications is to outline conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

Where there is a published Australian/New Zealand harmonized or Joint Standard referenced in this Standard, the New Zealand Standard number is given in parenthesis following the Australian Standard number.

This Standard was revised to introduce the following technical and editorial changes:

- (a) Amendments 1, 2, 3 and 4 to AS/NZS 3112:1993 have been incorporated into the text.
- (b) The material and design of plug pins
- (c) Requirements for insulated pins
- (d) Requirements for IP-rated plugs and sockets
- (e) Changes to tests.

A1 | Notes to the text in the body of the Standard are not mandatory parts of the Standard.
The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.
This Standard does not provide all the necessary conditions for a contract.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies essential safety requirements for plugs and socket-outlets, as defined in Clause 1.4, intended for use at extra-low or low voltages and a rated current not exceeding 32 A for household or similar purposes. (For extra-low voltage plugs and socket-outlets, see Appendix E.)

This Standard does not apply to the following:

- (a) Appliance couplers (see AS/NZS 3109.1).
- A1 | (b) Installation couplers (see AS/NZS 3131:1995 or the Interim Standard AS/NZS 61535).
- (c) Plugs, socket-outlets and couplers for general industrial applications (see AS/NZS 3123).
- A1 | (d) Plugs and socket-outlets for moveable appliances (see AS/NZS 3131).

1.2 APPLICATION

1.2.1 General requirements of AS/NZS 3100

This Standard shall be read in conjunction with AS/NZS 3100 and the appropriate provisions of AS/NZS 3100 shall apply to the construction of a plug or socket-outlet and the insulation and safeguarding of parts which normally carry current.

1.2.2 Specific requirements of this Standard

A plug or socket-outlet shall be considered to comply with this Standard only if it complies with all the appropriate requirements of this Standard and passes the relevant tests specified herein.

NOTE: Plugs, socket-outlets and connectors incorporating retaining means of the type specified in AS/NZS 3123, or similar, need not comply with all general dimensional requirements of this Standard, so long as the safe functioning of accessories in a particular system is not impaired. Where appropriate, dimensions relevant to specified pin configurations are applied.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS	
1722	Pipe threads of Whitworth form
1722.2	Part 2: Fastening pipe threads
1939	Degrees of protection provided by enclosures for electrical equipment (IP Code)