

Australian/New Zealand Standard™

**Plugs and socket-outlets for household  
and similar purposes**

**Part 1: General requirements  
(IEC 60884-1, Ed. 3.1 (2006) MOD)**



## **AS/NZS 60884.1:2013**

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 4 March 2013 and on behalf of the Council of Standards New Zealand on 4 April 2013.

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The following are represented on Committee EL-004:

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Consumer Electronics Suppliers Association  
Consumer Federation of Australia  
Electrical Compliance Testing Association  
Electrical Regulatory Authorities Council  
Engineers Australia  
International Accreditation New Zealand  
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*This Standard was issued in draft form for comment as DR AS/NZS 60884.1.*

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**Part 1: General requirements  
(IEC 60884-1, Ed. 1 (2006) MOD)**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories.

This Standard will exist in parallel with AS/NZS 3112, *Approval and test specification—Plugs and socket-outlets*. This Standard and AS/NZS 3112 cover the requirements for plugs and socket outlets and either Standard may be used.

The objective of this Standard is to provide requirements and test methods for plugs and socket-outlets.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment* that could be applicable to plugs and socket-outlets are covered by this Standard.

This Standard is an adoption with national modifications and has been reproduced from IEC 60884-1, Ed.3.1 (2006), *Plugs and socket-outlets for household and similar purposes—Part 1: General requirements*, and has been varied as indicated to take account of Australian/New Zealand conditions. The modifications are set out in Appendix ZZ.

This Standard is structured in the following layout:

- (a) Preface
- (b) IEC 60884-1, Ed. 3.1 (2006) (unedited from the contents page to the final clause of the source document)
- (c) Appendix ZZ—Australian/New Zealand variations to the source document.

The variations listed in Appendix ZZ address issues including the following:

- (i) Requirements for mounting and installing fixed socket-outlets.
- (ii) Requirements for plugs, including rewirable plugs and plug pins.
- (iii) Dimensional requirements for plug and socket-outlets.
- (iv) Requirements for switches.
- (v) Flammability.

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

- (1) In the source text ‘this part of IEC 60884’ should read ‘this Australian/New Zealand Standard’.
- (2) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

| <i>Reference to International Standard</i> |                                                                               | <i>Australian/New Zealand Standard</i> |                                                                               |
|--------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------|
| IEC 60050                                  | International Electrotechnical Vocabulary                                     | AS 1852                                | International electrotechnical vocabulary                                     |
| IEC 60364-526                              | Electrical installations of buildings                                         | AS 1852.826                            | Electrical installations of buildings                                         |
| IEC 60068                                  | Environmental testing                                                         | AS 60068                               | Environmental testing                                                         |
| IEC 60068-2-30                             | Part 2-30: Tests—Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle) | AS 60068.2.30                          | Part 2.30: Tests—Test Db and guidance: Damp heat, cyclic (12 + 12-hour cycle) |
| IEC 60068-2-32                             | Part 2-32: Tests—Test Ed: Free fall (Procedure 1)                             | AS 60068.2.32                          | Part 2.32: Tests—Test Ed: Free fall (Procedure 1)                             |

| IEC                  |                                                                                                    | AS/NZS     |                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------|
| 60227<br>(all parts) | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V                | 3191       | Electric flexible cords                                                                                                |
| 60227-5              | Part 5: Flexible cables (cords)                                                                    | 60227.5    | Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V<br>Part 5: Flexible cables (cords) |
| 60245<br>(all parts) | Rubber insulated cables—Rated voltages up to and including 450/750 V                               | 3191       | Electric flexible cords                                                                                                |
| 60695                | Fire hazard testing                                                                                | 60695      | Fire hazard testing                                                                                                    |
| 60695-2-10           | Part 2-10: Glowing/hot-wire based test methods—Glow-wire apparatus and common test procedure       | 60695.2.10 | Part 2.10: Glowing/hot-wire based test methods—Glow-wire apparatus and common test procedure                           |
| 60695-2-11           | Part 2-11: Glowing/hot-wire based test methods—Glow-wire flammability test method for end-products | 60695.2.11 | Part 2.11: Glowing/hot-wire based test methods—Glow-wire flammability test method for end-products                     |
| ISO<br>2093          | Electroplated coatings of tin—Specification and test methods                                       | AS<br>4169 | Electroplated coatings—Tin and tin alloys (ISO 2093:1986, MOD)                                                         |

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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

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## FOREWORD

This consolidated version of IEC 60884-1 is based on the third edition (2002) [documents 23B/658/FDIS and 23B/664/RVD] and its amendment 1 (2006) [documents 23B/816/FDIS and 23B/821/RVD].

It bears the edition number 3.1.

A vertical line in the margin shows where the base publication has been modified by amendment 1.

Annexes A and B form an integral part of this standard.

Annex C is for information only.

NOTE In this standard, the following print types are used.

- Requirements proper: in roman type;
- *Test specification: in italic type;*
- Explanatory matter: in smaller roman type.

## AUSTRALIAN/NEW ZEALAND STANDARD

**Plugs and socket-outlets for household and similar purposes**

## Part 1:

## General requirements (IEC 60884-1, Ed.3.1 (2006) MOD)

**1 Scope**

This part of IEC 60884 applies to plugs and fixed or portable socket-outlets for a.c. only, with or without earthing contact, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 32 A, intended for household and similar purposes, either indoors or outdoors.

The rated current is limited to 16 A maximum for fixed socket-outlets provided with screwless terminals.

This standard does not cover requirements for flush mounting boxes; however, it covers only those requirements for surface-type mounting boxes which are necessary for the tests on the socket-outlet.

NOTE 1 General requirements for mounting boxes are given in IEC 60670.

This standard also applies to plugs incorporated in cord sets, to plugs and portable socket-outlets incorporated in cord extension sets and to plugs and socket-outlets which are a component of an appliance, unless otherwise stated in the standard for the relevant appliance.

This standard does not apply to

- plugs, socket-outlets and couplers for industrial purposes;
- appliance couplers;
- plugs, fixed and portable socket-outlets for ELV;

NOTE 2 ELV values are specified in IEC 60364-4-41.

- fixed socket-outlets combined with fuses, automatic switches, etc.

NOTE 3 Socket-outlets with pilot lights are allowed provided that pilot lights comply with the relevant standard, if any.

*Plugs and fixed or portable socket-outlets complying with this standard are suitable for use at ambient temperatures not normally exceeding 25 °C, but occasionally reaching 35 °C.*

NOTE 4 Socket-outlets complying with this standard are only suitable for incorporation in equipment in such a way and in such a place that it is unlikely that the surrounding temperature exceeds 35 °C.

In locations where special conditions prevail, such as in ships, vehicles and the like and in hazardous locations, for example where explosions are liable to occur, special constructions may be required.

**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.

IEC 60050-151:2001, *International Electrotechnical Vocabulary – Part 151: Electrical and magnetic devices*