

Australian Standard®

**Approval and test specification—
Electrical portable outlet devices**

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This Australian Standard was prepared by Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 1 May 1990 and published on 6 August 1990.

The following interests are represented on Committee EL/4:

Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Department of Public Works, N.S.W.
Electrical Contractors Association of Australia
Electricity Supply Association of Australia
Plastics Industry Association
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This Standard was issued in draft form for comment as DR 87227. ✓

AS 3105—1990

Australian Standard®

**Approval and test specification—
Electrical portable outlet devices**

First published as AS 3105—1984.
Second edition 1987.
Third edition 1990.

**PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY NSW
ISBN 0 7262 6346 X**

PREFACE

This Standard was prepared by the Standards Australia Committee on Electrical Accessories to supersede AS 3105—1987.

It is one of a series of Approval and Test Specifications issued by the organization. These Specifications are accompanied by a general Specification AS 3100, containing definitions and general requirements for electrical materials and 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 in Australia. Only safety matters and related conditions are covered.

This Standard specifies essential safety requirements for electrical portable outlet devices which may incorporate a reeling or coiling device and which have—

- (a) a single means of connection to a low-voltage supply; and
- (b) one or more outlet facilities.

This Standard was revised to incorporate Amendment No. 1, July 1989 (which affected Clauses 1.2.2, 4.5.3, 4.6 and 5) and to introduce other technical and editorial changes such as—

- Introduction of requirements to allow for full insertion of plug-in devices and to prevent inadvertent or partial operation of any switch (see Clause 5.1).
- Introduction of socket-outlet centre-to-centre distance requirements (see Clause 5.5.1).
- Introduction of the impact hammer test (see Clause 9.3.2).
- Updating of the cross reference to referred Standards and other minor editorial changes including renumbering of the clauses.

This Standard supersedes AS 3105—1987 (including Amendment No. 1, July 1989) from date of publication, with the exception of—

- (i) the second paragraph and Notes 1 and 2 of Clause 5.1 which come into effect 2 years from the date of publication; and
- (ii) the second paragraph of Clause 5.5.1 which comes into effect 4 years from the date of publication.

Standards Australia points out that this Specification does not purport to include all the necessary provisions of a contract.

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Approval and test specification—Electrical portable outlet devices

1 SCOPE. This Specification specifies essential safety requirements for electrical portable outlet devices, primarily intended for household and similar use at low voltage and which are connected to the supply by one of the following means:

- (a) A flexible cord and a plug complying with Clause 7.1.
- (b) An appliance inlet complying with Clause 6(b).

This Specification does not apply to—

- (i) cord extension sets which are covered by AS 3199;
NOTE: A cord extension set has a single means of connection to a low voltage supply and a single outlet facility in the form of a cord extension socket and does not incorporate a reeling or coiling arrangement (see Clause 4.2).
- (ii) portable residual current devices (current-operated (core balance) earth-leakage devices) which are covered by AS 3190;
- (iii) socket-outlet adaptors, e.g. 'double adaptors', which are covered by AS 3122;
- (iv) electric inspection handlamps which are covered by AS 3118;
- (v) portable control or conditioning devices which are covered by AS 3197; or
- (vi) separate devices for the storage of flexible cords or cord extension sets, e.g. a cable tidy.

2 APPLICATION.

2.1 General requirements of AS 3100. This Specification shall be read in conjunction with AS 3100, and the appropriate provisions of AS 3100 shall apply to the construction of the device and the insulation and safeguarding of parts which normally carry current.

2.2 Specific requirements of this Specification. A device shall be deemed to comply with this Specification only if it complies with all the requirements of this Specification and passes the tests specified herein.

2.3 Compliance with other Specifications. Components incorporated in a device which are depended upon for safety, shall comply with the appropriate requirements of any relevant Approval and Test Specification.

3 REFERENCED DOCUMENTS. The documents below are referred to in this Specification.

STANDARDS

AS
3000 SAA Wiring Rules

APPROVAL AND TEST SPECIFICATIONS

AS
3100 Definitions and general requirements for electrical materials and equipment
3109 Appliance couplers for household and similar general purposes
3109.1 Part 1: General requirements
3111 Miniature overcurrent circuit-breakers
3112 Plugs and socket-outlets
3117 Bayonet lampholders
3118 Electric inspection handlamps
3120 Cord extension sockets
3122 Socket-outlet adaptors
3127 Cord-line switches
3133 Air break switches
3140 Edison-type screw lampholders
3168 Fluorescent lamp ballasts
3190 Residual current devices (current-operated earth-leakage devices)
3191 Electric flexible cords
3197 Portable electrical control or conditioning devices
3199 Cord extension sets
3300 General requirements for household and similar electrical appliances