

Standards

Association of

Australia



Australian Standard[®] 3105—1987

APPROVAL AND TEST SPECIFICATION— ELECTRICAL PORTABLE OUTLET DEVICES



This Australian Standard was prepared by Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of the Standards Association of Australia on 26 October 1987 and published on 1 December 1987.

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AS 3105/Amdt 1/1989-07-14

STANDARDS AUSTRALIA

Amendment No 1

to

AS 3105—1987

Approval and test specification—Electrical portable outlet devices

REVISED TEXT



The 1987 edition of AS 3105 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 1.2.2, 4.5.3, 4.6 and 5.

Published on 14 July 1989.

AUSTRALIAN STANDARD

APPROVAL AND TEST SPECIFICATION ELECTRICAL PORTABLE OUTLET DEVICES

AS 3105—1987

First published as AS 3105.....1984
Second edition.....1987

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.

ISBN 0 7262 4782 0



PREFACE

This Standard was prepared by the Association's Committee EL/4, Electrical Accessories.

It is one of a series of approval and test specifications issued by the Association. 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 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 edition was published to incorporate into the specification Amendment No 1, April 1985 (which affected Clauses 2.3, 4.5.1, 4.5.3, 7.2 and Table 2), Amendment No 2, February 1987 (which affected Clauses 4.5.3 and 8.4 and Table 2) and to introduce other technical and editorial changes such as—

- Clarification of the scope of the specification
- Updating the cross-reference to referred Standards.

This specification supersedes AS 3105—1984 from date of publication.

The Association desires to call attention to the fact that this Standard does not purport to include all the necessary provisions of a contract.

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AMDT
No 1
JULY
1989

Page 3. Clause 1.2.2.

Delete 'AS C109 Appliance Plugs and Appliance Inlet-sockets.'

This Amendment forms part of the Specification on publication.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—
ELECTRICAL PORTABLE OUTLET DEVICES

This specification shall be read in conjunction with AS 3100 (see also Clause 3, below).

1 SCOPE AND REFERENCED DOCUMENTS.

1.1 Scope. This specification applies to 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 6.1.
- (b) An appliance inlet socket complying with Clause 5(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 2.2).

- (ii) portable current-operated (core balance) earth-leakage devices which are covered by AS 3190;
- (iii) plug socket adaptors, e.g. 'double adaptors', which are covered by AS 3122;
- (iv) electric inspection handlamps which are covered by AS 3118;
- (v) portable switching or control 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.

1.2 Referenced documents. The following documents are referred to in this Standard:

1.2.1 Standards.

AS 3000 SAA Wiring Rules.

1.2.2 Approval and test specifications.

- AS 3100 Definitions and General Requirements for Electrical Materials and Equipment.
- AS 3109.1 Appliance Couplers for Household and Similar General Purposes Part 1: General Requirements.
- AS 3111 Miniature Overcurrent Circuit-breakers.
- AS 3112 Plugs and Socket-outlets.
- AS 3117 Bayonet Lampholders.
- AS 3118 Electric Inspection Handlamps.
- AS 3120 Cord Extension Sockets.
- AS 3122 Plug Socket Adaptors.
- AS 3127 Cord-Line Switches.
- AS 3133 Air Break Switches.
- AS 3140 Edison-type Screw Lampholders.
- AS 3168 Fluorescent Lamp Ballasts.
- AS 3190 Current-operated (core balance) Earth-leakage Devices.

- AS 3191 Electric Flexible Cords.
- AS 3197 Portable Switching or Control Devices.
- AS 3199 Cord Extension Sets.
- AS 3300 General Requirements for Household and Similar Electrical Appliances.
- ~~SEE AMENDMENT 1~~
~~AS 3109 Appliance Plugs and Appliance Inlet-sockets.~~

2 DEFINITIONS. For the purpose of this specification, the definitions below apply.

2.1 Portable outlet device—a device, other than a cord extension set, having a single means of connection to a low voltage supply, and one or more outlet facilities. It may incorporate a reeling or coiling arrangement. In this specification the term 'device' means 'electrical portable outlet device'.

2.2 Reeling or coiling arrangement—an arrangement, which may be in the form of a frame or reel, intended for the storage of whole or part of a flexible cord, and which is not detachable from the cord or electrical portable outlet device without the use of a tool.

2.3 Integrally moulded portable outlet device—a device constructed so that its flexible cord is moulded to the device to form an integral unit; it being impossible to detach the flexible cord without making the device permanently useless.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 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 to the insulation and/or safeguarding of parts which normally carry current.

3.2 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.

3.3 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.

4 DESIGN AND CONSTRUCTION.

4.1 General. The current rating of any socket-outlet shall be not greater than that of the plug or appliance inlet socket nor greater than the current carrying capacity of the flexible cord.

4.2 Mechanical strength. The enclosing case of the device, or of any reeling or coiling arrangement, shall be of robust construction and adequate mechanical strength, and shall comply with the requirements of Clause 8.3.