

3117—1988 Approval and test specification—Bayonet
lampholders A4 12pp D
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Specifies essential safety requirements for approval and test
purposes. It is intended to be read in conjunction with
AS 3100.
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Australian Standard 3117—1981

1988ed

Amend 1

APPROVAL AND TEST SPECIFICATION FOR BAYONET LAMP HOLDERS

STANDARDS ASSOCIATION

9 DEC 1981



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- Australian Chamber of Commerce
- Australian Electrical and Electronic Manufacturers Association
- Confederation of Australian Industry
- Electrical Apparatus Approvals Authorities
- Electrical Contractors Association of Australia
- Electrical Testing Laboratories
- Electricity Supply Association of Australia
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Amended and redated	1947, 1950, 1955
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Second edition	1981

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STANDARDS ASSOCIATION OF AUSTRALIA
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Amendment No 1
to
AS 3117—1981
Approval and Test Specification
for
BAYONET LAMP HOLDERS
REVISED TEXT

The 1981 edition of AS 3117 is amended as follows: the amendment should be inserted in the appropriate place.

SUMMARY: The following sections of the standard are covered by this amendment: Clauses 7.1 and 15.6 (new); Table 2. In addition the references to AS C100 have been changed to AS 3100.

Published on 8 November 1982.

Preface.

Page 5 (1st line under title).

Clauses 3.1, 8, 9, 10, 12, 13, 15.1, 15.2, 15.3 and 15.4.

Table 2

Delete 'AS C100' and insert 'AS 3100'.

This amendment forms part of the specification on publication.

AMDT
No 1
NOV
1982

Page 6. Clause 7.1.

Add the following new paragraph as follows:

In addition any insulating material shall meet the requirements of Clause 15.6.

This amendment forms part of the specification on 1 December 1983.

AMDT
No 1
NOV
1982

Page 7. Table 2.

Add the following:

9	Determination of Ignitability and Combustion Propagation	15.6.1.1
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This amendment forms part of the specification on 1 December 1983.

AMDT
No 1
NOV
1982

Page 8. New Clause 15.6.

Add the following new clause:

15.6 Determination of Ignitability and Combustion Propagation. This test shall be carried out in accordance with the provisions of Clause 6.1 of AS 3100 with values in Clause 6.1.1 for (a) and (b) as follows:

- (a) 750° C for 30 s.
- (b) 650° C for 20 s.

This amendment forms part of the specification on 1 December 1983.

AMDT
No 1
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1982

PREFACE

This edition of this specification, prepared by Committee EL/2, Electrical Approvals Standards, was approved on behalf of the Council of the Standards Association of Australia on 7 September 1981, and was published on 14 December 1981.

It is one of a series of approval and test specifications issued by the Association. These specifications are accompanied by a general specification AS ~~C100~~ 3100 (cumul), 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 edition is technically identical with the 1972 edition except that it incorporates Amendments Nos 1 to 3 to that edition which were issued in March and October 1975 and January 1977, respectively, and includes changes to the following:

Clause 7.1(b)—modifies the requirement for switch lampholder skirts.

Table A1—modified to introduce international dimensions.

Appendix B—modified to introduce international dimensions.

Annex—added to set out requirements of the 1972 edition which may be applied by approvals authorities in lieu of certain requirements in this edition for a specified period of time.

This specification supersedes AS 3117—1972 from date of publication.

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

This specification requires reference to the following Australian standard approval and test specifications:

AS 3121 Insulating Mouldings

AS 3133 Air Break Switches

AS ~~C100~~ 3100 Definitions and General Requirements for Electrical Materials and Equipment

and also to the following overseas standards:

BS 52 Bayonet Lamp-caps, Lamp holders and B.C. Adaptors for Voltages not exceeding 250 Volts

BS 161 Specification for Tungsten Filament Lamps for General Service

IEC 61 Lamp Caps and Holders Together with Gauges for the Control of Interchangeability and Safety

CONTENTS

	<i>Page</i>
SPECIFICATION	
1 Scope	5
2 Definitions	5
3 Compliance with Specifications	5
4 Dimensions	5
5 Construction	5
6 Contacts	5
7 Materials	6
8 Means of Connection	6
9 Earthing Facilities.....	6
10 Switches in Lampholders	6
11 Heat-resisting Properties	5
12 Cord-grip Lampholders	6
13 Marking	7
14 Rating	7
15 Tests	7
APPENDICES	
A 'Go' Gauges for Checking Form, Dimensions and Contact Effectiveness of B22 and B15 Lampholders	9
B 'No Go' Gauges for Checking the Maximum Permissible Diameter of B22 and B15 Lampholders	12
C Gauges for the Contact Force in B22 and B15 Lampholders	13
ANNEX. REQUIREMENTS FROM 1972 EDITION	15

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
APPROVAL AND TEST SPECIFICATION
FOR
BAYONET LAMPHOLDERS

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

3100 (amdt 1)

1 SCOPE. This specification applies to 2-slot and/or 3-slot B22 bayonet lampholders and to bayonet lampholders of the B15 (small) designation which are intended for use in low voltage circuits.

2 DEFINITIONS. For the purpose of this specification the following definitions apply:

2.1 Bayonet lampholder—an accessory into which lamps having bayonet caps may be inserted for connection to the supply.

NOTE: Throughout the specification a bayonet lampholder is referred to as a lampholder.

2.2 B22 lampholder—a bayonet lampholder into which lamps having bayonet caps of 22 mm nominal diameter may be inserted. The lampholder shall be of a design suitable to accommodate lamps with two locating pins or of a design suitable to accommodate lamps with three locating pins.

2.3 B15 lampholder (small lampholder)—a bayonet lampholder into which lamps having bayonet caps of 15 mm nominal diameter may be inserted.

2.4 Batten lampholder—a lampholder incorporating a base designed for fixing directly to a surface.

2.5 Cord-grip lampholder—a lampholder which incorporates means for effectively anchoring the supply flexible cord.

2.6 Festoon lampholder—a lampholder intended for use in festoon lighting installations and designed for connection directly to a supply cable which, without termination, passes through it.

2.7 Screwed entry lampholder—a lampholder which is provided with a threaded entry hole for screwing to the conduit or similar protective casing containing the supply conductors.

2.8 Switch lampholders—a lampholder which incorporates a switch.

3 COMPLIANCE WITH SPECIFICATIONS.

3.1 General Requirements of AS ~~3100~~ ³¹⁰⁰ This specification shall be read in conjunction with AS ~~3100~~ ³¹⁰⁰, and the appropriate provisions of the specification shall apply to the construction of the lampholder, and to the insulation and safeguarding of parts which normally carry current.

3.2 Specific Requirements of this Specification. A lampholder shall be deemed to comply with this specification only if it complies with all the appropriate requirements of this specification and passes the tests specified herein.

4 DIMENSIONS. B22 lampholders (2-slot and 3-slot) and B15 lampholders shall be of such form and dimensions as will satisfactorily accommodate and retain the two appropriate GO gauges in Appendix A, listed as the max and min gauges, but which will not admit the appropriate NO-GO gauge of Appendix B.

NOTE: Attention is drawn to the dimensions of B22 and B15 bayonet lampholders specified in Part 2 of the International Electrotechnical Commission (IEC) Publication 6177—Lamp-holders conforming to the dimensions in that Publication will meet the above requirements.

5 CONSTRUCTION. The lampholder shall be so constructed that metal parts, other than terminals and contacts, will not become live before, during or after insertion of the lamp. The lampholder shall also be arranged such that final connection or installation does not necessitate twisting of the lampholder body by more than a half-turn.

Where the insulating interior portion of the lampholder body is separate from the portion which engages with the lamp cap, it shall be keyed in such a way as to prevent rotation within the lampholder body.

Where parts of the lampholder body are held together by a union, clamping ring, or similar device, the arrangement shall be such as will prevent relative rotation of the parts.

6 CONTACTS.

6.1 General. Lampholder contacts shall have smooth, substantially flat surfaces with rounded or bevelled edges designed to make and maintain satisfactory electrical contact with the contacts of appropriate lamp caps under normal conditions of use.

6.2 Size and Disposition. The arrangement of the contacts shall be such that they are not bridged by either or both contacts of the gauge B22_{max} or gauge B15_{max} in Appendix A, as appropriate, when the gauge is in any position during its insertion into the lampholder.

The diameter of circular-shaped contacts shall be not less than 3.5 mm for B22 lampholders and not less than 2.67 mm for B15 lampholders. Where contacts of other than circular shape are incorporated, the effective contact surface area shall be not less than 9.6 mm² for B22 lampholders and not less than 5.6 mm² for B15 lampholders. In addition, contacts shall be positioned in accordance with Fig. 1.

6.3 Contact Force. The force required to depress each plunger independently to the position it will occupy when the lamp is in position when tested in accordance with Appendix C shall be within the limits given in Table 1.