

*Superseded by AS 3117-1994*

AS 3117—1988



**Standards  
Association of  
Australia**



# **Australian Standard<sup>®</sup> 3117—1988**

## **APPROVAL AND TEST SPECIFICATION— BAYONET LAMPHOLDERS**



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 28 March 1988 and published on 17 June 1988.

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The following interests are represented on Committee EL/4:

Association of Consulting Engineers Australia  
Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Department of Defence  
Department of Public Works, N.S.W.  
Electrical Contractors Association of Australia  
Electricity Supply Association of Australia  
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STANDARDS AUSTRALIA

Amendment No 1  
to  
AS 3117—1988  
Approval and test specification—  
Bayonet lampholders



REVISED TEXT

The 1988 edition of AS 3117 is amended as follows; the amendment(s) should be inserted in the appropriate place.

*SUMMARY:* This Amendment applies to Clauses 4, 7.1, 7.3, 10, 15.5.1, 15.5.2, 15.5.6 (new) and 15.6.2 and Table 2.

Published on 4 June 1990.

AMDT  
No 1  
JUNE  
1990  
**Page 4. Clause 4.**

*Delete* the existing text and *insert* the following:

**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, when applied during insertion with (if necessary) a force of 10 N, but which will not admit the appropriate NO-GO gauge of Appendix B, when applied with a force of 10 N.

NOTES:

1. Attention is drawn to the dimensions of B22 and B15 bayonet lampholders specified in IEC 61-2. Lampholders conforming to the dimensions in that Publication will meet the above requirements.
2. The 10 N force applied (if necessary) during insertion of the appropriate GO gauges of Appendix A, is in addition to the force required to depress the lampholder contacts.

This amendment forms part of the Specification on publication.

AMDT  
No 1  
JUNE  
1990  
**Page 5. Clause 7.1.**

*Add* a new item (e) as follows:

(e) Insulating material used for the construction of a festoon lampholder skirt need not be rigid, but shall have properties not inferior to Class 160 mouldings.

This amendment forms part of the Specification on publication.

AMDT  
No 1  
JUNE  
1990  
**Page 5. Clause 7.3.**

*Delete* the existing title and *insert* the following:

**7.3 Current-carrying parts.**

This amendment forms part of the Specification on publication.

AMDT  
No 1  
JUNE  
1990  
**Page 5. Clause 10.**

*Delete* the existing 1st paragraph and *insert* the following:

**10 SWITCHES IN LAMPHOLDERS.** Any switch incorporated in a lampholder shall be a Category 1 switch however, either the 'off' or the 'on' position shall be marked and tests in accordance with AS 3133 shall be conducted at 250 V or the marked rated voltage and 3 A or the marked rated current.

This amendment forms part of the Specification 2 years from publication.

AMDT  
No 1  
JUNE  
1990

**Page 6. Clause 15.5.1.**

Add the following between 'materials' and 'under', 4th line, 1st paragraph:  
'when operated (nominally) at 240 V, or the marked rated voltage, as appropriate,'

This amendment forms part of the Specification on publication.

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AMDT  
No 1  
JUNE  
1990

**Page 7. Table 2.**

Rearrange the order of tests so that existing Test No 7 becomes Test No 3 and existing Test No's 3, 4, 5 and 6, become Tests No's 4, 5, 6 and 7.

This amendment forms part of the Specification on publication.

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AMDT  
No 1  
JUNE  
1990

**Page 7. Clause 15.5.2.**

Add the following sentence to the penultimate paragraph:

In addition—

- (a) there shall be no distortion of the lampholder which would render it inoperative (with particular attention given to the j slots) and;
- (b) the lamp shall be able to be readily removed and reinserted at the conclusion of the test.

This amendment forms part of the Specification on publication.

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AMDT  
No 1  
JUNE  
1990

**Page 8. Clause 15.5.6 (new).**

Add the following new clause:

**15.5.6 For screwed entry lampholders.** Screwed entry lampholders shall be tested in accordance with and shall comply with the requirements of Clause 15.5.4, except that the (top of the) lampholder shall be suspended 30 mm from the test ceiling by non-metallic conduit.

NOTE: Where the screwed conduit is of a size such that a 1 mm<sup>2</sup> flexible cable cannot be accommodated, a smaller sized cable may be used. In this case, the flexible cable to be used is the largest able to be accommodated.

This amendment forms part of the Specification on publication.

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AMDT  
No 1  
JUNE  
1990

**Page 8. Clause 15.6.2.**

Replace Item (i) with the following:

- (i) prevent the insertion of the GO gauge B22<sub>max</sub> or B15<sub>max</sub> of Appendix A, as appropriate, when applied with (if necessary) a force of 10 N;

NOTE: The 10 N force is in addition to the force required to depress the lampholder contacts.

This amendment forms part of the Specification on publication.

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**AUSTRALIAN STANDARD**

**APPROVAL AND TEST  
SPECIFICATION—  
BAYONET LAMPHOLDERS**

**AS 3117—1988**

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## PREFACE

This Standard was prepared by the Association's Committee EL/4, Electrical Accessories to supersede AS 3117—1981 (including Amendment No 1, November 1982) from date of publication.

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, *Approval and Test Specification for 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 was revised to incorporate Amendment No 1, November 1982 (which affected Clauses 7.1 and 15.6, Table 2 and updated the AS C100 reference to AS 3100 in many clauses) to AS 3117—1981 and introduces other technical and editorial changes such as —

- Introduction of a definition of a pendant lampholder and clarification of the definition of a cord-grip lampholder.
- Inclusion of a normal temperature test (see Clause 15.5) for batten and cord-grip lampholders.
- Clarification of the mechanical strength test of Clause 15.6.
- Inclusion of the Category 1, 2, 3 philosophy (see AS 3100) for switch lampholders.
- Amends Clauses 12 and 15.4 with respect to the cord anchorage test.
- Updating of the cross-reference to referred Standards.

The Association points out that this Standard does not purport to include all the necessary provisions of a contract.

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## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

APPROVAL AND TEST SPECIFICATION—  
BAYONET LAMPHOLDERS

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 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.

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

#### 1.2.1 Standards.

AS  
3000 SAA Wiring Rules

#### IEC

61 Lamp caps and holders together with gauges for the control of interchangeability and safety

61-1 Lamp caps  
61-2 Lampholders  
61-3 Gauges

#### BS

161 Specification for tungsten filament lamps for general service (batch testing)

5042 Specification for lampholders and starterholders Part 1: Bayonet lampholders

#### 1.2.2 Approval and Test Specifications.

#### AS

3100 Definitions and general requirements for electrical materials and equipment

3121 Insulating mouldings

3137 Luminaires (lighting fittings)

**2 DEFINITIONS.** For the purpose of this Specification, the definitions below apply:

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

NOTE: Throughout this 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.

NOTE: 'Cord-grip' does not necessarily imply gripping of the flexible cord sheathing or insulated cores. Effective anchorage may be achieved by other methods, e.g. a tortuous path of the cores of the 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 lampholder**—a lampholder which incorporates a switch.

**2.9 Pendant lampholder**—a cord-grip lampholder intended to be suspended by a supply flexible cord.

### 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 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 IEC 61-2. Lampholders conforming to the dimensions in that Publication will meet the above requirements.

**5 CONSTRUCTION.** The lampholder shall be constructed so 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