Australian STANDARD

Bayonet lampholders
(IEC 61184, Ed. 3.1 (2011) MOD)

STANDARDS Australia

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The following are represented on Committee EL-041:

- Australasian Fire and Emergency Service Authorities Council
- Australian Industry Group
- Consumers Federation of Australia
- Department of Industry
- Electrical Compliance Testing Association
- Electrical Regulatory Authorities Council
- Energy Efficiency and Conservation Authority of New Zealand
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- Independent Pricing and Regulatory Tribunal
- Institution of Professional Engineers New Zealand
- Joint Accreditation System of Australia and New Zealand
- Lighting Council Australia
- Lighting Council New Zealand
- Master Electricians Australia
- Ministry of Business, Innovation and Employment, New Zealand

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Australian Standard®

Bayonet lampholders (IEC 61184, Ed. 3.1 (2011) MOD)

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-041, Lamps and Related Equipment, to supersede AS/NZS 61184:2007, *Bayonet lampholders (IEC 61184, Ed. 2.0 (1997) MOD)* six months from publication. During this period, both editions of the Standard will operate in parallel, then the 2007 edition is anticipated to be withdrawn.

A2 Amendment No. 2, redesignates this Standard from AS/NZS 61184 to AS 61184.

This Standard incorporates Amendment No. 1 (December 2015) and Amendment No. 2 (February 2017). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard will also operate in parallel with AS/NZS 3117, *Approval and test specification—*
A1 *Bayonet lampholders*.

A2 While this Standard (AS 61184:2015) and AS/NZS 3117 operate in parallel, they are separate stand-alone documents and the chosen Standard (i.e. AS 61184 or AS/NZS 3117) is applied in its entirety. The interchanging of requirements from each Standard is not permitted to determine overall compliance of a bayonet lampholder, except when either Standard specifically references the other Standard's requirements.

The objective of this Standard is to specify particular requirements for bayonet lampholders used in general purpose lighting.

This Standard is an adoption with national modifications; it has been reproduced from IEC 61184, Ed. 3.1 (2011), *Bayonet lampholders*, its Amendment 1 (2011) and its Corrigendum 1 (2009), which have been incorporated into the source text. Corrigendum 2 (2012) has been added at the end of the source text. A vertical line in the margin shows where the base publication has been modified by Amendment 1. Additions and deletions are displayed in red, with deletions being struck through. This Standard has been varied as indicated to take account of Australian/New Zealand conditions.

This Standard is structured as follows:

(a) Preface (including Australian and Australian/New Zealand references).

(b) IEC 61184, Ed. 3.1 (2011) (unedited from the contents page to the final clause of the IEC Standard).

(c) Appendix ZZ—Australian/New Zealand variations to the IEC Standard.

The variations listed in Appendix ZZ address issues including resistance to flame and ignition.

The variations described in Appendix ZZ form the Australian and New Zealand variations for the purposes of the IECEE CB Scheme for recognition of testing to Standards for safety of electrical equipment (the CB Scheme).

The essential safety requirements of AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to Bayonet lampholders are covered by this Standard, taken in conjunction with any other relevant requirements affecting safety.

In this Standard, the following print types are used:

(i) Requirements proper: in roman type.

(ii) *Test specifications: in italic type.*

(iii) Notes: in small roman type.

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

(A) In the source text 'this International Standard' should read 'this Australian/New Zealand Standard'.

(B) 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:

Reference to International Standard		*Australian/New Zealand Standard*	
IEC		AS	
60068	Environmental testing	60068	Environmental testing
60068-2-75	Part 2-75: Tests—Test Eh: Hammer tests	60068.2.75	Part 2.75: Tests—Test Eh: Hammer tests
		AS/NZS	
60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V (series)	60227	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V (series)
60245	Rubber-insulated cables—Rated voltages up to and including 450/475 V (series)	60245	Rubber-insulated cables—Rated voltages up to and including 450/475 V (series)
		AS	
60417	Graphical symbols for use on equipment	60417	Graphical symbols for use on equipment
		AS/NZS	
60432	Incandescent lamps—Safety specifications (series)	60432	Incandescent lamps—Safety specifications (series)
		AS	
60529	Degrees of protection provided by enclosures (IP Code)	60529	Degrees of protection provided by enclosures (IP Code)
		AS/NZS	
60598	Luminaires	60598	Luminaires
60598-1	Part 1: General requirements and tests	60598.1	Part 1: General requirements and tests (IEC 60598-1, Ed. 7.0 (2008) MOD)
60695	Fire hazard testing	60695	Fire hazard testing
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 (IEC 60695-2-11:2000, MOD)

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

The term 'normative' has been used in this Standard to define the application of the annex or appendix to which it applies. A 'normative' annex or appendix is an integral part of a Standard.

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INTRODUCTION

This standard covers safety requirements for bayonet lampholders and includes references to IEC 60061 for the control of interchangeability and safety of the cap and holder fit.

NOTE Safety requirements ensure that electrical equipment constructed in accordance with these requirements does not endanger the safety of persons, domestic animals or property when properly installed and maintained and used in applications for which it was intended.

The thermal characteristics of lampholders are specified by the rated operating temperature (symbol T), which is the highest temperature for which the lampholder is designed. The temperature rating and the resistance to heat specified in this standard are based on two different principles, as presently found in IEC 60238 for Edison screw lampholders and in other national standards for bayonet lampholders. After experience, it may be possible to rationalize the systems in future editions of this standard.

AUSTRALIAN STANDARD

Bayonet lampholders (IEC 61184, Ed. 3.1 (2011) MOD)

1 General

1.1 Scope

This International Standard applies to bayonet lampholders B15d and B22d for connection of lamps and semi-luminaires to a supply voltage of 250 V.

This standard also covers lampholders which are integral with a luminaire or intended to be built into appliances. It covers the requirements for the lampholder only.

For all other requirements, such as protection against electric shock in the area of the terminals, the requirements of the relevant appliance standard shall be observed and tested after building into the appropriate equipment, when that equipment is tested according to its own standard. Lampholders for use by luminaire manufacturers only are not for retail sale.

NOTE Where lampholders are used in luminaires, their maximum operating temperatures are specified in IEC 60598-1.

B15d denotes the cap/holder fit as defined by IEC 60061-1, sheet 7004-11 and IEC 60061-2, sheet 7005-16 with the corresponding gauges.

B22d denotes the cap/holder fit as defined by IEC 60061-1, sheet 7004-10 and IEC 60061-2, sheet 7005-10 with the corresponding gauges.

1.2 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 60061 (all parts), *Lamp caps and holders together with gauges for the control of interchangeability and safety*

IEC 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp caps*

IEC 60061-2, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 2: Lampholders*

IEC 60061-3, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 3: Gauges*

IEC 60064, *Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements*

IEC 60068-2-75:1997, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60112:2003, *Method for the determination of the proof and the comparative tracking indices of solid insulating materials*

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*