

Superseded by AS/NZS 3152:1992



**Standards
Association of
Australia**



Australian Standard[®] 3152—1988

APPROVAL AND TEST SPECIFICATION— DECORATIVE LIGHTING OUTFITS



This Australian Standard was prepared by Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of the Standards Association of Australia on 13 January 1988 and published on 5 April 1988.

The following interests are represented on Committee EL/2:

Australian Consumers Association
Australian Electrical and Electronic Manufacturers Association
Confederation of Australian Industry
Consumer Electronics Suppliers Association
Electrical apparatus approvals authorities
Electrical testing laboratories
Electricity Supply Association of Australia
Institution of Engineers Australia

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This Standard was issued in draft form for comment as DR 86083.

AS 3152/Amendment 1/1989-07-14

STANDARDS AUSTRALIA

Amendment No 1
to
AS 3152—1988

Approval and test specification—Decorative lighting outfits

REVISED TEXT

The 1988 edition of AS 3152 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 1.2.2, 5.2.1 and 10.

Published on 14 July 1989.

AUSTRALIAN STANDARD

**APPROVAL AND TEST
SPECIFICATION—
DECORATIVE LIGHTING
OUTFITS**

AS 3152—1988

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PREFACE

This Specification was prepared by the Association's Committee on Electrical Approvals Standards to supersede AS 3152—1980.

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.

The preparation of this Specification was undertaken to include requirements for outdoor type and totally enclosed decorative lighting outfits.

This Specification will supersede AS 3152—1980 on date of publication.

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

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AMDT
No 1
JULY
1989

Page 3. Clause 1.2.2.

Delete the reference to AS 3126, Extra low voltage transformers and
substitute:

AS 3108 Isolating transformers and safety isolating
transformers

This Amendment forms part of the Specification on publication.

AMDT
No 1
JULY
1989

Page 3. Clause 5.2.1.

Delete the third paragraph of Clause 5.2.1.

This Amendment forms part of the Specification on publication.

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

APPROVAL AND TEST SPECIFICATION—DECORATIVE LIGHTING OUTFITS

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 decorative lighting outfits, with lamps or lamp holders connected with flexible cord having conductors less than 2.5 mm², designed for connection to an extra-low voltage supply not exceeding 32 V or a low voltage supply not exceeding 250 V and suitable for indoor or outdoor use.

NOTE: This Specification does not apply to festoon lighting of the type described in AS 3000, SAA Wiring Rules.

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

1.2.1 Standards.

AS
1939 Classification of degrees of protection provided by enclosures of electrical equipment

1.2.2 Approval and Test Specifications.

AS
3100 Definitions and general requirements for electrical materials and equipment

3108 Isolating transformers and safety isolating transformers

3112 Plugs and plug sockets

3117 Bayonet lampholders

3119 Normal bayonet lampholder adapters

3121 Insulating mouldings

~~3126 Extra-low voltage transformers. SEE AMENDMENT 1~~

3140 Edison-type screw lampholders

3191 Electric flexible cord

3300 General requirements for household and similar electrical appliances

2 DEFINITIONS. For the purpose of this Specification, the definitions given in AS 3100 and the following apply:

2.1 Decorative lighting outfit—(hereinafter referred to as 'outfit')—a number of lamps or lampholders, connected either in series or in parallel and designed for connection to an accessory in an electrical installation by means of a supply flexible cord and including any shades, diffusers, reflectors, transformers, flashers and supports etc.

2.2 Flasher unit—a device intended to automatically cause intermittent operation of the lamps.

2.3 Encapsulated type—a decorative lighting outfit having its source of illumination, wiring and lampholders totally or partially encapsulated or enclosed in insulating material.

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 outfit and the insulation and/or safe-guarding of parts which normally carry current.

3.2 Specific requirements of this Specification. An outfit 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 Requirements of other Specifications. Components incorporated in the outfit which are depended upon for safety shall comply with all the appropriate requirements of any relevant Approval and Test Specification unless such requirements are varied herein.

4 ARRANGEMENT OF OUTFITS.

4.1 Low voltage outfits. Lampholders, of an outfit intended for connection to a low voltage supply, which are suitable for the use of filament type lamps, shall be connected in series and there shall be not less than eight lampholders in a circuit.

Lamps may be connected in parallel only when the lamps and their connections are encapsulated.

4.2 Extra-low voltage outfits. The lampholders of an outfit intended for connection to an extra-low voltage supply may be connected either in series or in parallel.

5 CONNECTIONS TO LAMPS OR LAMP-HOLDERS.

5.1 General. Connections shall be made in accordance with Clauses 4.3 and 4.5 of AS 3100 except that the provisions of Clause 4.3.5 of AS 3100 in relation to the holding of the conductors in position independently of the soldering need not apply.

5.2 Conductors and insulation thickness.

5.2.1 Outfits other than encapsulated type. Every low-voltage outfit shall have its lampholders connected with flexible cord complying with AS 3191 and the average thickness of insulation of a single-core flexible cord shall be not less than 0.8 mm.

The colour green may be used for the insulation of live conductors provided that all such insulated conductors are coloured green. However if an outfit requires earthing facilities the colour green shall not be used for the insulation of live conductors in accordance with Clause 3.7 of AS 3100.

~~SEE AMENDMENT 1
The minimum size of conductor shall be not less than 0.75 mm².~~