Australian/New Zealand Standard®

Approval and test specification—General requirements for household and similar electrical appliances

[Based on IEC 335-1:1976, Safety of household and similar electrical appliances—General requirements]

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/2, Electrical Approvals Standards. It was approved on behalf of the Council of Standards Australia on 20 December 1995 and on behalf of the Council of Standards New Zealand on 4 March 1996. It was published on 5 April 1996.

The following interests are represented on Committee EL/2:

Association of New Zealand Electrical Appliance Distributors
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Consumer Electronics Suppliers Association, Australia
Electrical regulatory authorities
Electricity Supply Association of Australia
Electrical test laboratories
Institution of Engineers, Australia
Metal Trades Industry Association of Australia
Ministry of Commerce, New Zealand
New Zealand Manufacturers Federation

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Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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Approval and test specification—General requirements for household and similar electrical appliances

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/2 on Electrical Approvals Standards to supersede AS 3300—1992/NZS 6300:1992. It was prepared to align Australian Approval and Test Specifications and New Zealand Standards progressively with International Electrotechnical Commission (IEC) Standards for appliances.

This Standard is based on but is not equivalent to IEC 335-1:1976, *Safety of household and similar electrical appliances—General requirements*, including Amendments 1 to 6. It contains requirements of a general nature which form the basis of a series of supplementary Approval and Test Specifications that contain particular requirements for various types of household and similar electrical appliances. This Standard is being retained in parallel with AS/NZS 3350.1:1994, *Approval and test specifications—Safety of household and similar electrical appliances—General requirements*. It is required to support all the Parts 2 that still refer to it.

A number of variations have been made in this Standard to the text of IEC 335-1:1976. The variations are necessary to take into account the national requirements for electrical appliances that apply in both Australia and New Zealand. These variations are indicated, throughout the text of this Standard, by marginal bars located against the changed text or figure. The majority of variations are technical. Other variations to notes, explanatory matter, figures and references to Australian and New Zealand Standards and Specifications are also included for completeness.

Descriptions of these variations are to be found in Annex A to this Standard, given in the order found within the body of this Standard. These variations also form the Australian national variations for purposes of the IEC scheme for recognition of results of testing to Standards for safety of electrical equipment (the CB scheme).

The numbering of clauses and figures closely follow those of IEC 335-1:1976. To allow for the introduction of additional material by the IEC, the numbers 1 to 100 have been reserved. Clauses numbered from 101 are used by the IEC to add to the body of the Standard by the appendices. To allow for additional material to be introduced by Australia or New Zealand, the numbers 201 to 300 are used. This scheme has been introduced to reduce the likelihood of the IEC and Australia or New Zealand using the same clause or figure number for differing requirements. Where Australia or New Zealand has added a requirement or made a change to a particular clause of IEC 335-1, that clause number remains unchanged.

Where the word 'VOID' is used it means that the requirement in IEC 335-1:1976 is not applicable in Australia or New Zealand. The word is also used where the deletion of a requirement would lead to consequential renumbering of references within the body of this Standard.

In this Standard the requirements appear in roman type, notes and explanatory matter appear in smaller roman type and tests appear in italics.

It is not intended that this Standard be used where there is no particular standard for an appliance. It may, however, be used for guidance in the assessment of an appliance by reference to an existing particular standard for a similar type of appliance.

In Australia this Standard supersedes AS 3300—1992 on publication. In New Zealand this Standard supersedes NZS 6300:1992 on publication.

This Standard incorporates Amendment Nos 1, 2, 3 and 4 to the 1992 edition and contains changes which more closely align it with IEC 335-1:1976.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix or annexes to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

This Standard requires reference to the following:

NOTE: Where no relevant New Zealand Standard is listed, the referenced Australian Standard is deemed to be appropriate for the purpose of this Standard.

STANDARDS

AS 1125	Conductors in insulated electric cables and flexible cords
AS 1541	Fixed capacitors for use in electronic equipment
AS 1541.14	Part 14: Fixed capacitors for radio interference suppression
AS 1931	High voltage testing techniques
AS 1931.1	Part 1: General definitions, test requirements, test procedures and measuring devices
AS 1931.2	Part 2: Application guide for measuring devices
AS 1939	Degrees of protection provided by enclosures for electrical equipment (IP Code)
AS 2420	Fire test methods for solid insulating materials and non-metallic enclosures used in electrical equipment.
AS 2768	Electrical insulating materials—Evaluation and classification based on thermal endurance.
IEC 127	Miniature fuses
IEC 127-3	Part 3: Sub-miniature fuse-links
IEC 335	Safety of household and similar electrical appliances
IEC 335-1	Part 1: General requirements

NOTE: AS 3300/NZS 6300 is based on this Standard.

CISPR	International Special Committee on Radio Interference
BS 5267	Specification. Capacitors for single-phase a.c. motors
UL 94	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

APPROVAL AND TEST SPECIFICATIONS

AS 3109	Appliance couplers for household and similar general purposes
AS 3109.1	Part 1: General requirements
AS/NZS 3112	Plugs and socket-outlets
AS 3116	Electric cables—Elastomer insulated—For working voltages up to and including 0.6/1 kV
AS 3133 (NZS/AS 3133)	Air break switches
AS 3147 (NZS/AS 3147)	Electric cables—Thermoplastic insulated for working voltages up to and including 0.6/1 kV
AS 3161 (NZS/AS 3161)	Thermostats and energy regulators
AS 3191 (NZS/AS 3191)	Electric flexible cords
AS/NZS 3200	Medical electrical equipment
AS/NZS 3250	Mains operated electronic and related equipment for household and similar general use
AS 3301/NZS 6325	Particular requirements for microwave ovens

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