AS/NZS 3112:2004 (Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Approval and test specification—Plugs and socket-outlets





AS/NZS 3112:2004

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 24 November 2004 and on behalf of the Council of Standards New Zealand on 3 December 2004.

This Standard was published on 21 December 2004.

The following are represented on Committee EL-004:

Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Canterbury Manufacturers Association, New Zealand
Consumer Electronic Suppliers Association
Consumers' Federation of Australia
Electrical Regulatory Authorities Council
Ministry of Economic Development (New Zealand)
National Electrical and Communications Association
Plastics Industry Pipe Association of Australia
Telarc New Zealand
Testing Interests (Australia)

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 04375.

AS/NZS 3112:2004 (Incorporating Amendment No. 1)

Australian/New Zealand Standard™

Approval and test specification—Plugs and socket-outlets

Originated in Australia as C112—1937.
Originated in New Zealand as part of NZSS 198—1939.
Previous edition AS/NZS 3112:2000.
Sixth edition 2004.
Reissued incorporating Amendment No. 1 (October 2006).

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6418 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, *Electrical Accessories* to supersede AS/NZS 3112:2000 on publication.

This Standard incorporates Amendment No. 1 (October 2006). 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.

The objective of this Standard is to provide the Australian and New Zealand electrical industry including manufacturers, test laboratories and regulators with requirements and test methods for plugs and socket-outlets.

This Standard is one of a series of approval and test specifications to be read in conjunction with AS/NZS 3100, Approval and test specification—General requirements for electrical equipment. The purpose of this series is to outline conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

The essential safety requirements in AS/NZS 3820 that could be applicable to plugs and socket-outlets are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

This Standard was revised to introduce the following technical and editorial changes:

- (a) Amendments 1 and 2 to AS/NZS 3112:2000 have been incorporated into the text.
- (b) Requirements for the shape of the ends of plug pins.
- (c) Pin bending test.
- (d) Changes to fire test requirements.
- (e) Requirements with regards to any interference between metal contacts and thermoplastic or resilient mouldings.
- (f) Lateral strain test for two pin plugs.
- (g) Updating of cross-references to referred Standards and other minor editorial changes.

Notes to the text in the body of the Standard are not mandatory parts of the Standard.

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

This Standard does not provide all the necessary conditions for a contract.

CONTENTS

		Page		
SECTIO	ON 1 SCOPE AND GENERAL			
1.1	SCOPE	6		
1.2	APPLICATION	6		
1.3	REFERENCED DOCUMENTS			
1.4	DEFINITIONS	7		
SECTIO	N 2 PLUGS			
2.1	TERMINALS AND INTERNAL CONNECTIONS	g		
2.2	PLUG PINS			
2.3	INSULATING MATERIALS			
2.4	NON-REWIREABLE PLUGS			
2.5	MEANS OF ENTRY AND CORD ANCHORAGE FOR FLEXIBLE CORD			
2.6	RADIO INTERFERENCE SUPPRESSION DEVICES			
2.7	FINGER-GRIP			
2.8	RATINGS AND DIMENSIONS OF LOW VOLTAGE PLUGS			
2.9	INTERNAL CONNECTIONS			
	ARRANGEMENT OF EARTHING CONNECTIONS			
	FUSES			
	MARKING			
	TESTS ON PLUGS			
SECTIO	N 3 SOCKET-OUTLETS			
3.1	TERMINALS AND INTERNAL CONNECTIONS	30		
3.2	PROHIBITED ARRANGEMENTS			
3.3	SOCKET-OUTLET CONTACTS			
3.4	INSULATING MATERIALS			
3.5	RADIO INTERFERENCE SUPPRESSORS			
3.6	DIMENSIONS			
3.7	ARRANGEMENT OF EARTHING CONNECTIONS			
3.8	PREVENTION OF CONTACT WITH LIVE PINS			
3.9	FUSES			
	FLOOR SOCKET-OUTLETS			
	SWITCHED SOCKET-OUTLETS			
	SHUTTERED SOCKET-OUTLETS			
	MARKING			
	TESTS FOR SOCKET-OUTLETS			
APPENI	DICES			
A	GAUGE FOR THREE-PIN FLAT-PIN PLUGS	59		
В	GAUGE FOR TWO-PIN FLAT-PIN PLUGS WITH PARALLEL PINS			
C	THREE-PIN TEST PLUG WITH FLAT PINS FOR FULL-INSERTION TEST			
C	AND THE FINGER TEST DURING NORMAL INSERTION TEST	61		
D	THREE-PIN TEST PLUG WITH FLAT PINS FOR	01		
D	ABNORMAL INSERTION TEST	62		
Е	PLUGS AND SOCKET-OUTLETS FOR USE	02		
L	IN EXTRA-LOW VOLTAGE CIRCUITS	63		
F	GAUGE FOR FLAT AND ROUND PIN PLUGS			



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation