

AS/NZS 3122:2021



Australian/New Zealand Standard™

Approval and test specification — Socket-outlet adaptors



AS/NZS 3122:2021

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 01 November 2021 and by the New Zealand Standards Approval Board on 03 November 2021.

This Standard was published on 19 November 2021.

The following are represented on Committee EL-004:

- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Better Regulation Division (Fair Trading, Safework NSW, Testsafe)
- Consumer Electronics Suppliers Association
- Consumers Federation of Australia
- Electrical Regulatory Authorities Council, Australia
- Engineers Australia
- International Accreditation New Zealand
- Joint Accreditation System of Australia & New Zealand
- National Electrical Communications Association
- Plastics Industry Pipe Association of Australia
- Plastics New Zealand
- The Manufacturers' Network
- WorkSafe New Zealand

This Standard was issued in draft form for comment as DR AS/NZS 3122:2021.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting:

www.standards.org.au

www.standards.govt.nz

ISBN 978 1 76113 615 3

Australian/New Zealand Standard™

Approval and test specification — Socket- outlet adaptors

Originated in Australia as AS C122—1939.
Previous edition AS/NZS 3122:2015.
Seventh edition 2021.

© Standards Australia Limited/the Crown in right of New Zealand, administered by the New Zealand Standards Executive 2021

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, unless otherwise permitted under the Copyright Act 1968 (Cth) or the Copyright Act 1994 (New Zealand).

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories, to supersede AS/NZS 3122:2015.

AS/NZS 3122:2015 will remain current for 12 months after the date of publication of this standard and after this time it will be superseded by AS/NZS 3122:2021. Regulatory authorities that reference this standard in regulation may apply these requirements at a different time. Users of this standard should consult with these authorities to confirm their requirements.

The objective of this standard is to provide the Australian and New Zealand electrical industry with requirements and test methods for socket-outlet adaptors.

This standard shall be used in conjunction with the latest edition of AS/NZS 3100 with its amendments. It was established on the basis of AS/NZS 3100:2017, *Approval and test specifications—General requirements for electrical equipment*. This document includes undated references to AS/NZS 3112:2017 Figure 2.1. If AS/NZS 3112 is revised, users should refer to the AS/NZS 3112 figure titled “Dimensions of plugs”. The purpose of this series is to outline conditions to prove the safety of electrical equipment in Australia and New Zealand. Only safety matters and related conditions are covered.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to socket-outlet adaptors are covered by this standard taken in conjunction with any other relevant requirements affecting safety.

This standard was revised to introduce the following technical changes to [Appendix A](#), which specifies additional requirements for travel adaptors:

- (a) Modification of the definition of “travel adaptor”.
- (b) Clarification of the socket portion requirements.

This standard does not include all the necessary conditions of a contract.

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.

Contents

Preface	ii
1 Scope and application	1
1.1 Scope	1
1.2 Application	1
1.2.1 General requirements of AS/NZS 3100	1
1.2.2 Specific requirements of this standard	1
2 Normative references	1
3 Terms and definitions	1
4 Prohibited features	2
5 Safety extra-low voltage outputs	3
6 Plug and socket portions	3
7 Insulating materials	3
8 Terminals and internal connections	3
8.1 Material	3
8.2 Construction of terminals	4
8.3 Polarity sequence	4
9 Pins and contacts	4
9.1 Material	4
9.2 Construction	5
9.3 Entry or withdrawal of plug pins into a socket portion	5
9.4 Assembly of pins	5
10 Exposed metal	5
11 Means of entry and cord anchorage for flexible cord	5
11.1 General	5
11.2 Anchorage	6
11.3 Side-entry (of the flexible cord) socket-outlet adaptors	6
12 Non-rewireable socket-outlet adaptors	6
13 Rating	7
14 Internal connections	7
15 Arrangement of earthing connection	7
16 Prevention of contact with live pins	7
16.1 During insertion	7
16.2 Assembly and alignment of covers	7
17 Clearances	7
18 Switches	7
19 Radio interference suppression devices	8
20 Marking	8
20.1 Required marking	8
20.2 Location of marking	8
20.3 Additional requirements for rewireable socket-outlet adaptors	8
20.4 Earthing connections	9
20.5 Live connections	9
20.5.1 General	9
20.5.2 Location of marking	9
20.6 Configuration of socket-outlet adaptor fitted with flat-pins	9

21 Conformance with tests in AS/NZS 3112	9
Appendix A (normative) Travel adaptors	10

Australian/New Zealand Standard

Approval and test specification — Socket-outlet adaptors

1 Scope and application

1.1 Scope

This standard specifies requirements for socket-outlet adaptors, as defined in [Clause 3](#), for use at low voltage.

NOTE Rewireable socket-outlet adaptors are only accepted in New Zealand.

1.2 Application

1.2.1 General requirements of AS/NZS 3100

This standard shall be read in conjunction with AS/NZS 3100 and the appropriate provisions of AS/NZS 3100 shall apply to the construction of a socket-outlet adaptor and the insulation and safeguarding of parts which normally carry current.

1.2.2 Specific requirements of this standard

A socket-outlet adaptor shall be deemed to conform to this standard only if it conforms to all requirements of this standard and passes the specified tests.

For travel adaptors, see [Appendix A](#).

2 Normative references

The following standards are referred to in the text in such a way that some or all of their content constitutes requirements of this standard:

AS/NZS 3100, *Approval and test specification — General requirements for electrical equipment*

AS/NZS 3112, *Approval and test specification — Plugs and socket-outlets*

AS/NZS 3121, *Approval and test specification — Insulating mouldings*

IEC/TR 60083, *Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC*

BS 1363, *13 A plugs, socket-outlets, adaptors and connection units*

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

3.1

aperture set

active, neutral and earth (where applicable) pin apertures on a socket outlet

3.2

may

indicates the existence of an option