

Australian/New Zealand Standard™

**Electrical installations—Marinas and
pleasure craft at low-voltage**

AS/NZS 3004:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-001, Wiring Rules. It was approved on behalf of the Council of Standards Australia on 8 April 2002 and on behalf of the Council of Standards New Zealand on 28 March 2002. It was published on 30 May 2002.

The following are represented on Committee EL-001:

Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Electrical and Electronic Manufacturers Association
Communications, Electrical Plumbing Union
Electrical Contractors Association Qld
Electrical Contractors Association of New Zealand
Electrical Safety Organisation (New Zealand)
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National Utilities and Electrotechnology Industry Training Advisory Body
New Zealand Council of Elders
New Zealand Electrical Institute
Regulatory authorities (electrical)
Telstra Corporation Limited

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Australasian Corrosion Association
Canterbury Manufacturers Association of New Zealand

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Australian/New Zealand Standard™

Electrical installations—Marinas and pleasure craft at low-voltage

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-001, *Wiring Rules* to supersede AS 3004—1993, *Electrical installations—Marinas and pleasure craft at low-voltage*.

This edition was prepared to update requirements for electrical installations of pleasure craft and their shore installations following the issue of AS/NZS 3000:2000.

This Standard differs from AS 3004—1993 in several areas including the following:

- (a) The Standard is now joint and requirements specific to Australia or New Zealand are clearly indicated.
- (b) The text has been extensively redrafted.
- (c) Methods of connection and corresponding figures have been re-ordered in order of increasing possibility of corrosion or alkaline degradation.

This Standard may be applied through legislative requirement, from a date to be set by the relevant regulating authority. If work on an installation was commenced before publication of this edition, the relevant regulatory authority or electricity distributor may grant permission for the installation to be completed under AS 3004—1993 or NZS 3000:1997.

The word 'shall' introduces a requirement that is to be followed strictly in order to comply with the Standard. The word 'should' introduces a suggestion or recommendation only.

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FOREWORD

Special Requirements

Any requirements that may be applicable in Australia only or New Zealand only are indicated in the text and by a symbol in the right margin as follows:

‘In Australia.....’

A

‘In New Zealand.....’

NZ

Certain requirements that are nominated in New Zealand regulations are indicated in the right margin by the symbol shown.

NZR

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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Australian/New Zealand Standard
Electrical installations—Marinas and pleasure craft at low-voltage
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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for electrical installations associated with pleasure craft intended for connection to low-voltage a.c. supply systems (i.e. exceeding 50 V a.c. but not exceeding 1 000 V a.c.).

It includes requirements for the internal electrical installation on board applicable pleasure craft and for electrical installations in marinas intended to supply electrical power to those craft.

NOTE: This Standard does not require specific instruction notices to be provided either on a pleasure craft or on a marina. However, it is recommended that the marina operator provide each pleasure craft operator intending to connect a pleasure craft to the marina low-voltage electrical supply with a copy of an instruction notice containing at least the information set out in Appendix A or Appendix B as appropriate.

1.2 APPLICATION

Electrical installations in marinas and pleasure craft shall be carried out in accordance with AS/NZS 3000, except as varied herein, and with the applicable additional requirements of this Standard.

NOTE: The relevant electrical safety authority might choose to apply this Standard to other craft and installations e.g. commercial fishing vessels and the applicable mooring facilities.

The relevant electricity distributor may have additional requirements for the electrical installations in marinas and pleasure craft.

1.3 REFERENCED DOCUMENTS

AS

1939 Degrees of protection provided by enclosures for electrical equipment (IP Code)

AS/NZS

2832 Cathodic protection of metals

3000 Electrical installations (known as the Australian/New Zealand Wiring Rules)

3108 Approval and test specification—Particular requirements for isolating transformers and safety isolating transformers

3109 Approval and test specification—Appliance couplers for household and similar general purposes

3109.1 Part 1: General requirements

3112 Approval and test specification—Plugs and socket-outlets

3120 Approval and test specification—Cord extension sockets