

Australian Standard™

Earth and bonding clamps

This Australian Standard was prepared by Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 2 July 2002 and published on 18 July 2002.

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Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
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Consumer Electronic Suppliers Association
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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 1882—2002

Earth and bonding clamps

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NSW Fair Trading
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NOTES

Australian Standard™

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-004 on Electrical Accessories, to supersede AS 1882—1976. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard originated as a metric version of AS C79—1938.

The requirements were reviewed and accepted without change by EL-004 in 2002. Clause 1 has been rearranged according to editorial policy and the list of referenced documents now contained in Clause 1.2 has been brought up to date.

The principal objective of the Standard is to specify requirements for metal clamps for use in electrical installations in accordance with AS/NZS 3000, for the connection of earth and bonding conductors to metal pipes and metal cable sheaths.

This Standard provides a range of standard clamp sizes suitable for attachment to pipes and cables of external diameters from 11 to 105 mm inclusive. Performance requirements and certain mechanical features applicable to all clamps, including special clamps fabricated on site and those outside the dimensional range provided, have also been included.

During the revision of this Standard, close touch was maintained with interested manufacturers, industrial associations and user bodies, who were given the opportunity of reviewing the various drafts and of putting their views before the committee. Acknowledgment is made of the valuable assistance received from these bodies.

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STANDARDS AUSTRALIA

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1 SCOPE AND REFERENCED DOCUMENTS

1.1 Scope

This specification prescribes the size ranges, performance and certain mechanical features, including the provision of suitable earth conductor connecting facilities, of metal clamps and clips used to connect the earth or bonding conductor of an electrical installation to cylindrical surfaces such as metal pipes and metal cable sheaths.

NOTE: The term 'clamp' as used throughout this specification includes 'clip'.

Provision is made for clamps suitable for pipes and cables of external diameters from 11 mm to 105 mm.

Some typical designs of earth clamps are shown in Appendix C.

1.2 Referenced documents

This Standard may require reference to the following documents:

AS

- | | |
|------|---|
| 1397 | Steel sheet and strip—Hot-dipped zinc-coated or aluminium/zinc coated |
| 1432 | Copper tubes for plumbing, gasfitting and drainage applications |
| 1789 | Electroplated coatings—Zinc on iron or steel |

AS/NZS

- | | |
|------|---|
| 3000 | Electrical installations (known as the Australian/New Zealand Wiring Rules) |
| 3100 | Approval and test specification—General requirements for electrical equipment |
| 4680 | Hot-dip galvanized (zinc) coatings on fabricated ferrous articles |

AS/ISO

- | | |
|------|--|
| 1000 | SI units and recommendations for the use of their multiples and of certain other units |
|------|--|

BS

- | | |
|------|---|
| 4921 | Specification for sherardized coatings on iron or steel |
|------|---|

2 APPLICATION

Clamps fabricated on site for special applications, or clamps intended for pipes outside the diameters listed in Clause 6, or clamps for fitting to other than cylindrical shapes, are not covered by the dimensional and marking requirements of this specification, but such clamps shall comply, as far as practicable, with the relevant material, performance and test requirements specified herein.