

Australian/New Zealand Standard™

**Connecting devices—Electrical copper  
conductors—Safety requirements for  
screw-type and screwless-type  
clamping units**

**Part 2: Particular requirements for  
clamping units for conductors above  
35 mm<sup>2</sup> up to 300 mm<sup>2</sup> (included)**

STANDARDS  
Australia



**STANDARDS**  
NEW ZEALAND  
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## **AS/NZS IEC 60999.2:2012**

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 27 March 2012 and on behalf of the Council of Standards New Zealand on 29 March 2012.

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Electrical Compliance Testing Association  
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Engineers Australia  
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Australian/New Zealand Standard™

**Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units**

**Part 2: Particular requirements for clamping units for conductors above 35 mm<sup>2</sup> up to 300 mm<sup>2</sup> (included)**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories.

The objective of this Standard is to provide the Australian and New Zealand electrical industry, including manufacturers, regulators, test laboratories and certification bodies, with requirements for screw-type and screwless-type clamping units for connecting devices, either as separate entities or as integral parts of equipment, for the connection of electrical copper conductors, rigid stranded and/or flexible, having a cross-section above 35 mm<sup>2</sup> and up to and including 300 mm<sup>2</sup> and equivalent AWG/kcmil sizes with a rated voltage not exceeding 1000 V a.c. and a frequency up to and including 1000 Hz and 1500 V d.c.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to screw-type and screwless-type clamping units for conductors above 35 mm<sup>2</sup> up to 300 mm<sup>2</sup> (included) are covered by this Standard, taken in conjunction with any other relevant requirements affecting safety.

This Standard is identical with, and has been reproduced from, IEC 60999-2, Ed 2.0 (2003), *Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units—Part 2: Particular requirements for clamping units for conductors above 35 mm<sup>2</sup> up to 300 mm<sup>2</sup> (included)*.

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- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text 'this part of IEC 60999' should read 'this Australian/New Zealand Standard'.
- (c) A full point substitutes for a comma when referring to a decimal marker.

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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

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## AUSTRALIAN/NEW ZEALAND STANDARD

**Connecting devices—Electrical copper conductors—Safety requirements for screw-type and screwless-type clamping units****Part 2:**

Particular requirements for clamping units for conductors above 35 mm<sup>2</sup> up to 300 mm<sup>2</sup> (included)

**1 Scope**

This part of IEC 60999 applies to screw-type and screwless-type clamping units for connecting devices, either as separate entities or as integral parts of equipment, for the connection of electrical copper conductors (complying with IEC 60228), rigid, stranded and/or flexible, having a cross-section above 35 mm<sup>2</sup> and up to and including 300 mm<sup>2</sup> and equivalent AWG/kcmil sizes with a rated voltage not exceeding 1000 V a.c. and a frequency up to and including 1000 Hz and 1500 V d.c.

It applies to clamping units primarily suitable for connecting unprepared conductors.

This standard does not apply to clamping units:

- for connection by crimping or soldering;
- for non-universal clamping units defined in 3.10.2 of IEC 60999-1.

**2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60228:1978, *Conductors of insulated cables*  
Amendment 1 (1993)

IEC 60228A:1982, *Conductors of insulated cables – First supplement*

IEC 60999-1:1999, *Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm<sup>2</sup> up to 35 mm<sup>2</sup> (included)*

**3 Definitions**

For the purposes of this part of IEC 60999, Clause 3 of IEC 60999-1 applies, with the following modifications.

Definition 3.10.2 of IEC 60999-1 is not applicable.