

Australian/New Zealand Standard™

**Connecting devices for low-voltage  
circuits for household and similar  
purposes**

**Part 2.4: Particular requirements for  
twist-on connecting devices**



## **AS/NZS IEC 60998.2.4:2012**

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 8 June 2012 and on behalf of the Council of Standards New Zealand on 8 June 2012.

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The following are represented on Committee EL-004:

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Consumers Federation of Australia  
Electrical Compliance Testing Association  
Electrical Regulatory Authorities Council  
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International Accreditation New Zealand  
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*This Standard was issued in draft form for comment as DR AS/NZS IEC 60998.2.4.*

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Originally as AS/NZS 60998.2.4:1998.  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-004, Electrical Accessories to supersede AS/NZS 60998.2.4:1998 *Connecting devices for low-voltage circuits for household and similar purposes—Part 2-4: Particular requirements for twist-on connecting devices*.

The objective of this Standard is to provide requirements for Australian and New Zealand electrical industries with general requirements for twist-on connecting devices.

The essential safety requirements in AS/NZS 3820, *Essential safety requirements for electrical equipment* that could be applicable to connecting devices for low voltage circuits for households are covered by this Standard.

This Standard is identical with, and has been reproduced from IEC 60998-2-4: Ed. 2.0 (2004), *Connecting devices for low-voltage circuits for household and similar purposes—Part 2-4: Particular requirements for twist-on connecting devices*. See the Foreword for guidance on how to use this Standard. Note that IEC 60998-1 has been adopted as AS/NZS IEC 60998.1.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) A full point substitutes for a comma when referring to a decimal marker.

The term 'informative' is used to define the application of the annex to which they apply. An 'informative' annex is for information and guidance.

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## FOREWORD

This Part 2-4 is intended to be used in conjunction with IEC 60998-1. It was established on the basis of the second edition (2002) of that standard.

It supplements or modifies the corresponding clauses in IEC 60998-1 so as to convert that publication into the IEC standard: *Particular requirements for twist-on connecting devices*.

Where a particular subclause of Part 1 is not mentioned in this Part 2-4, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant requirements, test specification or explanatory matter in Part 1 should be adapted accordingly.

In this standard:

- a) the following print types are used:
  - requirements proper: in roman type;
  - *test specifications: in italic type;*
  - explanatory matter: in smaller roman type.
- b) subclauses and figures which are additional to those in Part 1 are numbered starting from 101; additional annexes are lettered AA, BB, etc.

## AUSTRALIAN/NEW ZEALAND STANDARD

**Connecting devices for low-voltage circuits for household and similar purposes**

## Part 2.4:

## Particular requirements for twist-on connecting devices

**1 Scope***Replacement:*

This International Standard applies to twist-on connecting devices for connecting two or more unprepared rigid and/or flexible copper conductors having a cross-sectional area of 0,5 mm<sup>2</sup> up to and including 16 mm<sup>2</sup> and complying with IEC 60228, the total cross-sectional area of the connected conductors not exceeding 35 mm<sup>2</sup>.

It covers low voltage circuits up to 1 000 V a.c. and 1 500 V d.c. where electrical energy is utilized for household and similar purposes.

This standard covers TOCDs primarily designed for application by hand. However, certain TOCDs, for example for large cross-sections, may require the use of a tool designed for that particular TOCD.

NOTE In the UK, TOCDs must also be suitable for connecting 2 or more unprepared flexible cables, including a flexible cable having a cross sectional area of 1,25 mm<sup>2</sup> complying with BS 6500. Wires and cables in the USA do not presently comply to IEC 60228.

**2 Normative references**

This clause of Part 1 is applicable.

**3 Terms and definitions**

This clause of Part 1 is applicable, except as follows:

*Additional definitions:***3.101****twist-on connecting device****TOCD**

terminal which is twisted on the ends of two or more conductors

**3.102****range of TOCD's connecting capacity**

the smallest and the largest individual conductors (expressed in mm<sup>2</sup> or AWG) used in pairs of equal size capable of being safely connected as specified by the manufacturer. This does not exclude the use of more than two conductors in the TOCD or the use of conductors of sizes outside the specified range of connecting capacity.