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AS/NZS IEC 60998.2.3:2012

Australian/New Zealand Standard™

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

Part 2.3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

STANDARDS Australia

STANDARDS NEW ZEALAND PAEREWA AOTEAROA

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Australian Industry Group
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Electrical Regulatory Authorities Council
Engineers Australia
International Accreditation New Zealand
Ministry of Economic Development, New Zealand
New Zealand Manufacturers and Exporters Association
NSW Office of Fair Trading
Office of the Technical Regulator, SA
Plastics Industry Pipe Association of Australia

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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 60998.2.3:1998, *Connecting devices for low-voltage circuits for household and similar purposes*, Part 2.3: *Particular requirements for connecting devices as separate entities with insulation-piercing clamping units*.

The objective of this Standard is to provide Australian and New Zealand electrical industries with general requirements for connecting devices with insulation piercing clamping units primarily suitable for connecting insulated unprepared conductors.

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 60998-2-3, Ed. 2.0 (2002), *Connecting devices for low-voltage circuits for household and similar purposes—Part 2-3: Particular requirements for connecting devices as separate entities with insulation piercing clamping units* and its Corrigendum No.1 (2006) which has been incorporated into the source text. 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 terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A ‘normative’ annex is an integral part of a standard, whereas an ‘informative’ annex is only for information and guidance.

CONTENTS

FOREWORD

This Part 2-3 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 connecting devices as separate entities with insulation piercing clamping units.*

Where a particular subclause of Part 1 is not mentioned in this Part 2-2, 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, the following print types are used:

- requirements proper: in roman type.
- *test specifications: in italic type.*
- explanatory matter: in smaller roman type.

The contents of the corrigendum of November 2006 have been included in this copy.

AUSTRALIAN/NEW ZEALAND STANDARD

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

Part 2.3:
Particular requirements for connecting devices as separate entities with insulation-piercing clamping units

1 Scope

This clause of Part 1 is applicable except as follows:

Addition:

This standard applies to connecting devices with insulation piercing clamping units primarily suitable for connecting insulated unprepared conductors.

In the connecting operation the insulation of the conductor is pierced, bored through, cut through, removed, displaced or made ineffective in some other manner at the point or points of contact.

NOTE In the text of this standard, connecting devices with insulation piercing clamping units are referred to as IPCDs (insulation-piercing connecting devices).

2 Normative references

This clause of Part 1 is applicable except as follows:

Addition:

IEC 60227 (all parts), *Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V*

IEC 60245 (all parts), *Rubber insulated cables*

3 Definitions

This clause of Part 1 is applicable except as follows:

Additional definitions:

3.10
insulation-piercing connecting device
IPCD
connecting device for the connection and possible disconnection of one conductor or the interconnection of two or more conductors, the connection being made by piercing, boring through, cutting through, removing, displacing or making ineffective in some other manner the insulation of the conductor(s) without previous stripping

NOTE 1 The removal of the sheath of the cable, if necessary, is not considered as a previous stripping.

NOTE 2 Examples of IPCDs are given in Figure 103.