

Australian/New Zealand Standard™

**Conduits and fittings for electrical installations**

**Part 6: Profile-wall, smooth-bore conduits and fittings of insulating material**



Standards Australia



STANDARDS  
NEW ZEALAND  
Pūrongo Aotearoa

## **AS/NZS 2053.6:2001**

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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 21 May 2001 and on behalf of the Council of Standards New Zealand on 29 June 2001. It was published on 12 July 2001.

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The following interests are represented on Committee EL-004:

Australasian Railway Association  
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Canterbury Manufacturers Association, New Zealand  
Consumer Electronics Suppliers Association  
Electricity Supply Association of Australia  
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# Australian/New Zealand Standard™

## **Conduits and fittings for electrical installations**

### **Part 6: Profile-wall, smooth-bore conduits and fittings of insulating material**

Originated as AS/NZS 2053.6:1995.  
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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 2053.6:1995, *Conduits and fittings for electrical installations Part 6: Profile-wall, smooth-bore conduits and fittings of insulating material* on publication.

The objective of this Standard is to provide manufacturers, regulators, test laboratories and users with specific requirements for profile-wall, smooth-bore conduits and fittings of insulating material.

This Standard is Part 6 of the following series:

### AS/NZS

2053	Conduits and fittings for electrical installations
2053.1	Part 1: General requirements
2053.2	Part 2: Rigid plain conduits and fittings of insulating material
2053.3	Part 3: Rigid plain conduits and fittings of fibre-reinforced concrete material
2053.4	Part 4: Flexible plain conduits and fittings of insulating material
2053.5	Part 5: Corrugated conduits and fittings of insulating material
2053.6	Part 6: Profile-wall, smooth-bore conduits and fittings of insulating material (this Standard)
2053.7	Part 7: Rigid metal conduits and fittings
2053.8	Part 8: Flexible conduits and fittings of metal or composite material

The clauses in this Part add to or modify the corresponding clauses in Part 1. Where the text of this Part indicates an 'addition' or a 'replacement' of the relevant clause of Part 1, these changes are made to the relevant text in Part 1 which then becomes part of the Standard.

Where no change is necessary, the words, 'This clause in Part 1 is applicable' are used in this Part.

Clauses and figures supplementary to those in Part 1 are numbered from 101. Additional appendices are called AA, BB, and so on.

This Standard was revised to introduce the following technical and editorial changes.

- (a) Changes to marking requirements (Clause 6.101).
- (b) Deletion of bond strength test (Clause 9).
- (c) Addition of electromagnetic compatibility.

Appendices designated as normative are essential to the understanding or implementation of this Standard.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Conduits and fittings for electrical installations**

## Part 6: Profile-wall, smooth-bore conduits and fittings of insulating material

**1 SCOPE AND REFERENCED DOCUMENTS****1.1 Scope**

This Standard specifies requirements for rigid, non-threadable, profile-wall, smooth-bore conduits and fittings of insulating materials which are used for the protection of cables in an electrical installation and which have designated sizes of 90mm to 150 mm.

This Standard is to be read in conjunction with AS/NZS 2053.1. The requirements of Part 1 apply except where they are added to, or modified by, this Standard.

**1.2 Referenced documents**

This Clause in Part 1 is applicable, except as follows:

*Addition:*

AS/NZS

1462 Methods of test for PVC pipes and fittings

1462.1 Part 1: Method for determining the dimensions of pipes and fittings

2053 Conduits and fittings for electrical installations

2053.1 Part 1: General requirements

**2 DEFINITIONS**

This Clause in Part 1 is applicable.

**3 GENERAL REQUIREMENTS**

This Clause in Part 1 is applicable.

**4 GENERAL NOTES ON TESTS**

This Clause in Part 1 is applicable.

**5 CLASSIFICATION**

This Clause in Part 1 is applicable, except that Items 5.3(a), 5.3(e), 5.6(b) and 5.8.5(a) do not apply.

**6 MARKING**

This Clause in Part 1 is applicable, except as follows:

*Addition:*

**6.101 Special marking**

The marking for nominal size 100 mm shall be 100 (NZ) or 100 (AU), depending on which set of dimensions is used.