

Australian/New Zealand Standard

Conduits and fittings for electrical installations

Part 8: Flexible conduits and fittings of metal or composite material

AS/NZS 2053.8:1995

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL/4, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 1 November 1994 and on behalf of the Council of Standards New Zealand on 20 January 1995. It was published on 5 March 1995.

The following interests are represented on Committee EL/4:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Regulatory Authorities (Electrical)
Consumer Electronic Suppliers Association
Electricity Supply Association of Australia
Ministry of Commerce New Zealand
National Electrical Contractors Association of Australia
New Zealand Manufacturers Federation
Plastics and Chemical Industry Association, Australia

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 93260.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 2053.8:1995

Conduits and fittings for electrical installations

Part 8: Flexible conduits and fittings of metal or composite material

RECONFIRMATION NOTICE

Technical Committee EL-004 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 23 December 2015.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 18 May 2016.

The following are represented on Technical Committee EL-004:

Association of Accredited Certification Bodies
Australian Chamber of Commerce and Industry
Australian Industry Group
Consumer Electronics Suppliers Association
Consumers Federation of Australia
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Engineers Australia
International Accreditation New Zealand
New Zealand Manufacturers and Exporters Association
NSW Fair Trading
Plastics Industry Pipe Association of Australia
Worksafe New Zealand

NOTES

Australian/New Zealand Standard

Conduits and fittings for electrical installations

Part 8: Flexible conduits and fittings of metal or composite material

NZS 159.1:1954, NZS 6221.1:1972, NZS 6221.2:1972 and AS 2052— 1977 jointly revised, amalgamated and redesignated in part as Joint Standard AS/NZS 2053.8:1995.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7262 9449 7

 **Documents**
Document Sharing Hub

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/4 on Electrical Accessories to supersede in part AS 2052—1977, *Metallic conduits and fittings*, and NZS 159: *Flexible steel conduit for cable protection and flexible steel tubing to enclose flexible drives*, Part 1:1954, *Flexible steel conduit and adaptors for the protection of electric cable*. It is issued as a Joint Standard.

This Standard is Part 8 of the following series:

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

In producing this Standard, reference was made to IEC 614-2-5 (1992), *Specification for conduits for electrical installations*, Part 2: *Particular specifications for conduits*, Section 5: *Flexible conduits*.

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.

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

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
1 SCOPE AND REFERENCED DOCUMENTS	4
2 DEFINITIONS	4
3 GENERAL REQUIREMENTS	4
4 GENERAL NOTES ON TESTS	4
5 CLASSIFICATION	4
6 MARKING	4
7 DIMENSIONS AND FORM	5
8 CONSTRUCTION	5
9 MECHANICAL PROPERTIES	5
10 RESISTANCE TO HEAT	6
11 RESISTANCE TO BURNING	6
12 ELECTRICAL CHARACTERISTICS	6
13 EXTERNAL INFLUENCES	6
 APPENDICES	
AA MEASUREMENT OF THE DIAMETER OF CONDUITS	7
BB TEST OF ABILITY TO FLEX	8
CC TEST OF RESISTANCE TO HEAT	10