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Australian Standard 2052—1977

METALLIC CONDUITS AND FITTINGS



STANDARDS ASSOCIATION OF AUSTRALIA

Incorporated by Royal Charter



THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australian Electrical Manufacturers Association
Department of Construction
Department of Industry and Commerce
Department of Public Works, N.S.W.
Electrical Contractors Associations of Australia
Electricity Supply Association of Australia
Plastics Institute of Australia, Inc.
Railways of Australia Committee
Telecom Australia

This standard, prepared by Committee EL/4, Electrical Accessories, was approved on behalf of the Council of the Standards Association of Australia on 26 April 1977, and was published on 1 July 1977.

In order to keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 76046.

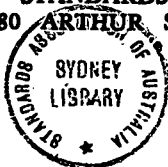
AUSTRALIAN STANDARD SPECIFICATION

METALLIC CONDUITS AND FITTINGS

AS 2052 — 1977

First published	{ (as AS C66, Part 1)	1955
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PREFACE

This standard was prepared by the Association's Committee on Electrical Accessories as a revision and metrication of AS C66, Part 1—1955, Rigid Metallic Conduit for Electrical Wiring, and AS C90—1963, Flexible Steel Conduit and Connectors, both of which it will supersede on 1 July 1978.

The provisions of this standard are generally in line with IEC 423, Outside Diameters of Conduits for Electrical Installations and Threads for Conduits and Fittings, for conduits up to 63 mm outside diameter. One of the major departures from a proposed IEC publication on general requirements for electrical conduits relates to wall thickness; the IEC publication will specify only outside diameter and minimum inside diameter, whereas this standard specifies outside diameter and minimum wall thickness. In the area of marking, however, the requirements in this standard are not as extensive as those in the proposed IEC publication.

For sizes in excess of 63 mm, the dimensions of 'medium' pipes for water and gas, as specified in AS 1074, Steel Tubes and Tubulars Threaded or Suitable for Threading with Pipe Threads of Whitworth Form, have been given.

Attention is drawn to the fact that the nominal sizes of conduit up to 63 mm refer to outside diameter, whereas for sizes 65 and above, the nominal sizes refer to approximate internal diameter.

For screwed conduit this standard covers only screwed conduit of the type referred to in AS C66 as 'Class B—Screwed Conduit'. The 'Class A—Plain' circular and flat types referred to in AS C66, are not covered since it was found that there was no longer a demand for these types. The other significant requirements which differ from those in AS C66 include the following:

- The scope has been expanded to include fittings used with metallic conduit.
- Three types of protection have been allowed for—'heavy protection' (galvanized to AS 1650), 'medium protection' (zinc coated or galvanized) and 'light protection' (painted or varnished).
- Metallic conduit is now required to be marked to indicate the manufacturer and the type of protection.
- Galvanized coatings for heavy protection and zinc coatings for medium protection are required to comply with AS 1650, Galvanized Coatings on Ferrous Articles, and AS 1789, Electroplated Coatings of Zinc on Iron and Steel, respectively.
- Values for 'mass per length' have not been specified—instead values for wall thicknesses have been stipulated, together with tolerances.

The significant requirements which differ from those in AS C90 include:

- The classification of flexible conduit as 'Type A—Unpacked' and 'Type B—Rubber-packed' has been abandoned; instead, three new classes have been introduced—unpacked, packed and plastics covered.
- Flexible metallic conduit is now required to be marked to indicate the manufacturer.
- Requirements for plastics covered flexible conduit have been included.

This standard may require reference to the following Australian standards:

- AS 1074 Steel Tubes and Tubulars Threaded or Suitable for Threading with Pipe Threads of Whitworth Form
- AS 1199 Sampling Procedures and Tables for Inspection by Attributes
- AS 1397 Hot-dipped Zinc-coated or Aluminium/Zinc-coated Steel Sheet in Coil and Cut Lengths
- AS 1399 Guide to AS 1199, Sampling Procedures and Tables for Inspection by Attributes
- AS 1565 Copper Alloy Ingots and Copper and Copper Alloy Castings
- AS 1595 Cold-rolled Unalloyed Low Carbon Steel Sheet and Strip
- AS 1650 Galvanized Coatings on Ferrous Articles
- AS 1721 General Purpose Metric Screw Threads
- AS 1722 Pipe Threads of Whitworth Form
- AS 1789 Electroplated Coatings of Zinc on Iron and Steel
- AS 1791 Chromate Conversion Coatings on Zinc and Cadmium Electrodeposits
- AS 1831 Spheroidal or Nodular Graphite Iron Castings
- AS 1832 Malleable Iron Castings
- AS 1852 International Electrotechnical Vocabulary
- AS 3000 SAA Wiring Rules
Part 1—Wiring Methods
- AS B128 Methods for the Verification of Testing Machines

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