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Australian Standard®
1660.3—1986

METHODS OF TEST FOR ELECTRIC CABLES, CORDS AND CONDUCTORS
Part 3—ELECTRICAL TESTS

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

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This Australian standard was prepared by Committee EL/3, Electric Wires and Cables. It was approved on behalf of the Council of the Standards Association of Australia on 22 July 1986 and published on 5 September 1986.

The following interests are represented on Committee EL/3:

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Department of Aviation

Department of Defence

Department of Industrial Relations (New South Wales)

Electrical Contractors Association of Australia

Electrical Regulatory Authorities

Electricity Supply Association of Australia

Railways of Australia Committee

Telecom Australia

Testing Interests

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AUSTRALIAN STANDARD

METHODS OF TEST FOR ELECTRIC CABLES, CORDS AND CONDUCTORS

Part 3
ELECTRICAL TESTS

AS 1660.3–1986

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See also Preface

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PREFACE

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This standard was prepared by the Association's Committee on Electric Wires and Cables. It is Part 3 of a four-part standard and is published concurrently with Parts 1, 2 and 4. Overall, all four standards constitute a revision of and replacement for—

AS 1660 Methods of Test for Electric Cables and Flexible Cords (including Conductors, Insulation and Sheath)

Part 1—1974 Test Methods for Conductors
Part 2—1974 Test Methods for Insulation, Sheath and Braid
Part 3—1974 Test Methods for Complete Cable
Part 4—1974 Test Methods for Complete Flexible Cords.

It should be noted that the four Parts of this edition of AS 1660 are not directly equivalent to the four Parts of the 1974 edition.

The four Parts of this new edition of AS 1660 are:

Part 1—Conductors and Metallic Components

Part 2—Insulation, Extruded Semi-conductive Screens and Non-metallic Sheaths

Part 3—Electrical Tests

Part 4—Complete Cable and Flexible Cord.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

METHODS OF TEST FOR ELECTRIC CABLES, CORDS AND CONDUCTORS

PART 3—ELECTRICAL TESTS

SECTION 1. SCOPE AND GENERAL REQUIREMENTS

1.1 SCOPE. This standard sets out electrical tests for component parts and complete cables, cords and conductors.

1.2 APPLICATION. The various individual specifications for particular types of cable or cord prescribe the actual tests from the range herein which are applicable and also specify the category of and criteria for such tests.

1.3 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1018 Recommendations for Partial Discharge Measurements

AS 1042 Direct-acting Indicating Electrical Measuring Instruments and Their Accessories

AS 1125 Conductors in Insulated Electric Cables and Flexible Cords

AS 1660 Methods of Test for Electric Cables, Cords and Conductors
Part 4—Complete Cable and Flexible Cord

AS 1931 High Voltage Testing Techniques
Part 1—General Definitions, Test Requirements, Test Procedures and Measuring Devices
Part 2—Application Guide for Measuring Devices

AS 3191 Approval and Test Specification for Electric Flexible Cords

1.4 TESTING TEMPERATURE. Unless otherwise specified, all tests shall be conducted in an ambient temperature of 25 ±2°C.

1.5 SELECTION OF SPECIMENS. All specimens used for testing shall be taken at least 300 mm from the end of a factory length of finished cable, flexible cable or flexible cord.

1.6 DEFINITIONS. For the purpose of this standard, the definitions given in the relevant cable standard or as given in a clause of this standard apply.