

Australian/New Zealand Standard™

**Conductors—Covered overhead—
For working voltages
6.35/11 (12) kV up to and including
19/33 (36) kV**

AS/NZS 3675:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-003, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 7 May 2002 and on behalf of the Council of Standards New Zealand on 9 May 2002. It was published on 30 May 2002.

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RECONFIRMATION

OF

AS/NZS 3675:2002

Conductors—Covered overhead—For working voltages 6.35/11 (12) kV up to and including 19/33 (36) kV

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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-003, Electric Wires and Cables, to supersede AS 3675—1993 and NZS/AS 3675—1993, *Conductors—Covered overhead—For working voltages 6.35/11 up to and including 19/33 kV*.

The objective of this Standard is to provide the construction, dimensions and test requirements for overhead covered conductors intended for power distribution, operating at voltages 6.35/11 (12) kV up to and including 19/33 (36) kV. Lines constructed with covered conductors are an alternative to overhead bare conductor construction and aerial bundled cables.

A rationalized range of stranded circular aluminium alloy conductors only are specified in this Standard.

This Standard differs from the previous edition in the following significant ways:

- (a) The Standard has been published as a Joint Australian/New Zealand Standard.
- (b) The requirements of the covering materials have been referred to AS/NZS 3808.
- (c) The 20 mm² conductor size in the CC type has been deleted.
- (d) A 40 mm² conductor size in the CCT type has been added.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the construction, dimensions and test requirements for water blocked covered conductors, suitable for overhead lines for working voltages 6.35/11 (12) kV up to and including 19/33 (36) kV, 50 Hz a.c.

NOTES:

- 1 An application guide is provided in Appendix A.
- 2 Guidelines on information that should be supplied with enquiries or orders are provided in Appendix B.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

- 1531 Conductors—Bare overhead—Aluminium and aluminium alloy
 3983 Metal drums for insulated electric cables and bare conductors

AS/NZS

- 1660 Test methods for electric cables, cords and conductors
 1660.2.1 Method 2.1: Insulation, extruded semi-conductive screens and non-metallic sheaths—Methods for general application
 1660.2.4 Method 2.4: Insulation, extruded semi-conductive screens and non-metallic sheaths—Methods specific to polyethylene and polypropylene materials
 1660.3 Method 3: Electrical tests

- 2857 Metal drums for insulated electric cables and bare conductors

- 3008 Electrical installations—Selection of cables

- 3008.1 Part 1: Cables for alternating voltages up to and including 0.6/1 kV

- 3800 Insulating and sheathing materials for electric cables

IEC

- 60287 Electric cables—Calculation of the current rating

ASTM

- G155 Standard practice for operating xenon arc light apparatus for exposure of non-metallic materials

ESAA

- HB C(b)1 Guidelines for design and maintenance of overhead distribution and transmission lines