AS/NZS 3675:2002
Reconfirmed 2017

Australian/New Zealand Standard™

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

Standards Australia

STANDARDS NEW ZEALAND
Paerewa Aotearoa

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.

The following are represented on Committee EL-003:

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Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
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Department of Defence (Australia)
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 00391.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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

RECONFIRMATION NOTICE

Technical Committee EL-003 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 10 October 2016.

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The following are represented on Technical Committee EL-003:

Australian Cable Makers' Association
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Electrical Compliance Testing Association
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Queensland University of Technology

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 mm^2 conductor size in the CC type has been deleted.

(d) A 40 mm^2 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	Timber 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
3808	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