Australian/New Zealand Standard™

Electric cables—For underground residential distribution systems





AS/NZS 4026:2001

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 18 April 2001 and on behalf of the Council of Standards New Zealand on 27 April 2001. It was published on 28 May 2001.

The following interests are represented on Committee EL-003:

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Australian Electrical and Electronic Manufacturers Association
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Electrical Contractors Association of New Zealand
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AS/NZS 4026:2001

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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 4026—1992 and NZS/AS 4026-1992, *Electric cables—For underground residential distribution systems*. The Standard applies to a range of cables recommended for use by electricity distributors in underground residential distribution (URD) systems at working voltages of 0.6/1 (1.2) kV, 6.35/11 (12) kV and 12.7/22 (24) kV.

For reasons of standardization and rationalization, this Standard provides for the construction, dimensions and test requirements of only a limited range of cables.

The requirements of this Standard are compatible with and complementary to those for the range of cables covered in AS/NZS 1429.1, AS 1026 and AS/NZS 5000.1.

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

- (a) This Standard has been published as a Joint Australian/New Zealand Standard.
- (b) For 6.35/11 (12) kV distribution network cables an additional 300 mm² conductor size has been included in the rationalized range.
- (c) The terms 'light duty' and 'heavy duty' in reference to metallic screens for cables complying with AS/NZS 1429.1 have been replaced by nominal short circuit ratings of 3 kA and 10 kA respectively.
- (d) For XLPE insulated 0.6/1 (1.2) kV distribution cables, separate rationalized ranges of conductor sizes have been included for Australia and New Zealand.
- (e) For XLPE insulated 0.6/1 (1.2) kV service cables, an additional 50 mm² conductor size has been included in the rationalized range.
- (f) An additional high voltage Type Test on the XLPE insulated cores of the 0.6/1 (1.2) kV service cables has been introduced.
- (g) Additional maximum continuous current rating data has been included to provide for installation at different soil temperatures.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An 'informative' appendix is only for information and guidance.

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