AS/NZS 1802:2018

Australian/New Zealand Standard™

Electric cables—Reeling and trailing—For underground coal mining

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-023, Electric Equipment for Mines and Quarries. It was approved on behalf of the Council of Standards Australia on 5 March 2018 and by the New Zealand Standards Approval Board on 3 April 2018.
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The following are represented on Committee EL-023:

Australian Cablemakers Association
Australian Chamber of Commerce and Industry
Australian Industry Group
Aviation and Marine Engineers Association
Construction Forestry Miners and Energy Union
Department of Mines, Industry Regulation and Safety (WA)
Department of Natural Resources, Mines and Energy (QLD)
Engineers Australia
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-023, Electric Equipment for Mines and Quarries to supersede AS/NZS 1802:2003, *Electric cables—Reeling and trailing—For underground coal mining*.

This Standard aligns with AS/NZS 2802, *Electric cables—Reeling and trailing—For mining and general use (other than underground coal mining)* for cables that have been developed to meet the special requirements of the Australian surface mining industry.

The objective of this Standard is to specify construction and tests of reeling and trailing cables specifically designed for use in underground coal mines.

Where the method of testing differs from, or has not yet been included in AS/NZS 1660, the test method has been included in Clause 25 and appendices to this Standard.

While the requirements of underground coal mining continue to determine the cables to be incorporated in this Standard, it is recognized that many of these cables will be equally applicable to other installations, for example, underground metalliferous mines, ship loaders, travelling cranes, reclaimers at loading stations and other materials handling plants. Other requirements may apply in these applications.

Appropriate requirements for new types and sizes will be included in this Standard as the need arises.

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

(a) Introduction of an earth fault screen.

(b) Introduction of tests under Clause 25 to test the newly introduced earth fault screen.

(c) Definition of the maximum volume resistivity for the insulation earth screens.

(d) Due to increasing cable sizes and thus experience with larger cables, the maximum sheath thickness for all cables is limited to no more than 9.0 mm.

The terms ‘normative’ and ‘informative’ are used in a Standard to define the application of the appendices or annexes to which they apply. A ‘normative’ appendix or annex is an integral part of a Standard, whereas an ‘informative’ appendix or annex is only for information and guidance.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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