

Australian Standard[®]

**Reeling, trailing and feeder
cables used for mining—
Repair and testing**

This Australian Standard was prepared by Committee EL/3, Electric Wire and Cables. It was approved on behalf of the Council of Standards Australia on 21 June 1993 and published on 11 October 1993.

The following interests are represented on Committee EL/3:

Australian Electrical and Electronic Manufacturers Association
Department of Defence
Electrical Contractors Associations of Australia
Electrical regulatory authorities
Electricity Supply Association of Australia
Office of Energy, N.S.W.
Railways of Australia Committee
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PREFACE

This Standard was prepared by the Standards Australia Committee on Electric Wires and Cables to supersede AS 1747—1989, *Reeling, trailing and feeder cables used for mining—Repair and testing*. It provides standard procedures for the repair of trailing cables and feeder cables used in underground coal mines and other mining applications, and establishes requirements for the repair of cables which will ensure that the repaired cable is returned to a condition as near as possible to the original design.

Although this Standard uses the SI based system of metric units, the methods given are also applicable to the repair of cables with dimensions in imperial units.

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

- (a) Referenced documents BS 219, *Specification for soft solders* and BS 2719, *Methods of use and calibration of pocket type hardness meters* have been replaced by AS 1834.1, *Material for soldering—Solder alloys* and AS 1683.15.2, *Material for soldering—Durometer hardness* respectively.
- (b) References have been added for Types 280A and 280B cables.
- (c) The symmetrical load test has been made a mandatory final test and the partial break test wording has been revised.
- (d) Lower insulation resistances for pilot cores may be accepted, subject to exemption by the regulatory authority.
- (e) A minimum 60 Shore A hardness units of the sheath have been added.
- (f) Ferrule and insulation repair identifications have been added.
- (g) Semiconductive elastomer core screens and sheath material are to comply with AS 1802, *Electric cables—Reeling and trailing—For underground coal mining purposes* and AS 2802, *Electric cables—Reeling and trailing—For mining and general use (other than underground coal mining)*.
- (h) Vulcanizing requirements have been qualified.
- (i) Appendix B in the previous edition has been deleted.
- (j) An Appendix has been added giving the combined resistance of earthing conductors for Types 275, 280A and 280B cables.

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