AS 2802—1992

# Australian Standard®

Electric cables—Reeling and trailing—For mining and general use (other than underground coal mining) This Australian Standard was prepared by Committee EL/3, Electric Wires and Cables. It was approved on behalf of the Council of Standards Australia on 3 December 1991 and published on 16 March 1992.

The following interests are represented on Committee EL/3:

Australian Electrical and Electronic Manufacturers Association

Department of Defence

Department of Minerals and Energy, New South Wales

Electrical Contractors Associations of Australia

Electrical regulatory authorities

Electricity Supply Association of Australia

Railways of Australia Committee

Testing interests

This Standard was issued in draft form for comment as DR 90198.

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Electric cables—Reeling and trailing—For mining and general use (other than underground coal mining)

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#### PREFACE

This Standard was prepared by Standards Australia's Committee on Electric Wires and Cables.

The Standard specifies two classes of cables for reeling and trailing cables for mining and general use, and defines cable structures developed to satisfy particular industry requirements. For high voltage applications, cables with a rationalized range of conductor sizes are specified to provide an optimum range to meet most applications.

Improvements made in manufacturing techniques and quality control, together with availability of cable materials having improved electrical and mechanical properties, permit the production of a high class of cable.

The cables specified in this Standard have been designed to meet the special requirements of the Australian surface mining industry and also to comply with the requirements of AS 3007, *Electrical installations*—Surface mines and associated processing plant.

Although surface mining was a significant factor in determining the cables to be incorporated in this Standard, it is recognized that many of these cables will be equally applicable to other installations, e.g. underground metalliferous mines, ship loaders, travelling cranes, reclaimers at loading stations and other large materials handling plant.

A number of cables specified in this Standard may also meet the requirements for underground coal mines, however, reeling and trailing cables for coal mines are the subject of AS 1802, *Electric cables — Reeling and trailing—For underground coal mining purposes*.

This Standard differs from the 1985 edition in that Type 415 cable has been deleted due to lack of demand.

In the preparation of this Standard consideration was also given to the following publications and acknowledgment is made of the assistance received therefrom:

AEIC

No CS 6 Ethylene propylene rubber insulated shielded power cables rated 5 through 69 kV

ICEA

Pub No S-68-516 *Ethylene-propylene-rubber-insulated wire and cable for the transmission and* (Nema Pub No WC8) *distribution of electrical energy.* 

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