

Australian/New Zealand Standard™

**Electrical equipment for coal mines, for
use underground**

**Part 2: Distribution, control and
auxiliary equipment**



Standards Australia



STANDARDS
NEW ZEALAND
Pūrongo Aotearoa

AS/NZS 4871.2:2002

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The following interests are represented on Committee EL-023:

Australian Chamber of Commerce and Industry
Australian Coal Association
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Department of Mineral Resources N.S.W.
Department of Natural Resources and Mines (QLD)
Electrical Apparatus Service Association
Mining Electrical and Mining Mechanical Engineers Society
New Zealand Hazardous Areas Electrical Coordinating Committee
Regulatory authorities (electrical)
Regulatory interests, New Zealand
University of Newcastle
WorkCover New South Wales

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Australian/New Zealand Standard™

Electrical equipment for coal mines, for use underground

Part 2: Distribution, control and auxiliary equipment

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-023, Electrical Equipment in Coal Mines.

The objective is to set out requirements for the design, construction and testing of distribution, control and auxiliary equipment for use in underground coal mines.

This Standard is Part 2 of the series AS/NZS 4871 *Electrical equipment for coal mines, for use underground*, prepared to supersede AS 1039, AS 1740, AS 2595.1 and AS 2989 (in part). The Australian Standards will remain available superseded until all relevant regulations have been updated.

The AS/NZS 4871 series comprises the following parts:

- Part 1: General requirements
- Part 2: Distribution, control and auxiliary equipment (this Part)
- Part 3: Substations
- Part 4: Mains powered electrical mobile machines
- Part 5: Battery powered electrical mobile machines

In recognition of changes made to this Standard, existing equipment should be assessed for risk and interim control measures should be implemented.

Current installed equipment should be updated to conform to this Standard. Compliance improvements should be made within a time frame that takes into consideration the cost of upgrading and the associated risk levels.

Enquiries concerning approval in Australia should be made to the following organizations:

- (a) Department of Mineral Resources N.S.W
- (b) Department of Natural Resources and Mines (QLD)
- (c) Department of Mineral and Petroleum Resources, W.A.
- (d) Department of Mines and Energy S.A.
- (e) Department of Industry, Technology and Resources, Vic.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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Part 2: Distribution, control and auxiliary equipment

S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE

This Standard specifies requirements for the design, construction and testing of distribution, control and auxiliary equipment.

This Standard shall be read in conjunction with AS/NZS 4871.1.

NOTES:

- 1 Distribution, control and auxiliary equipment may require approval by the relevant regulatory authority.
- 2 Part 2 is not intended to include motors, junction boxes, coupler boxes and the like which do not by definition have access covers.

1.2 APPLICATION

All distribution, control and auxiliary equipment shall comply with the requirements of Part 1 of this Standard and the following requirements.

1.3 REFERENCED DOCUMENTS

AS/NZS

- 4871 Electrical equipment for coal mines, for use underground
4871.1 Part 1: General requirements