

Australian/New Zealand Standard™

**Electrical equipment for mines and
quarries**

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



AS/NZS 4871.2:2010

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The following are represented on Committee EL-023:

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Australian Coal Association
Australian Industry Group
Aviation and Marine Engineers Association, New Zealand
Department of Mines and Energy, Qld
Department of Primary Industries, Mineral Resources, NSW
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Australian/New Zealand Standard™

Electrical equipment for mines and quarries

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 Mines and Quarries, to supersede AS/NZS 4871.2:2002, *Distribution, control and auxiliary equipment*.

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

This Standard is Part 2 of the series AS/NZS 4871, *Electrical equipment for mines and quarries*.

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

Part 6: Diesel powered machinery and ancillary equipment

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Australian/New Zealand Standard
Electrical equipment for mines and quarries

Part 2: Distribution, control and auxiliary equipment

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design, construction and testing of distribution, control and auxiliary equipment intended for mining and quarrying activities and covers any plant intended to be relocated from time to time in association with mining activities. This equipment may include motor starters, distribution and control boxes (DCB), section isolators and section circuit-breakers.

NOTES:

- 1 For permanent fixed equipment not directly associated with mining and quarrying activities, such as offices, amenities and fixed processing plant, reference should be made to AS/NZS 3000, AS 3007 and AS 2067.
- 2 The requirements of this Standard may be read in conjunction with, but do not take precedence over, regulations of a regulatory authority that may apply in a specific area.
- 3 This Standard is not intended for equipment covered in AS/NZS 4871, Parts 3 to 5.

1.2 APPLICATION

All distribution, control and auxiliary equipment shall comply with the requirements of AS/NZS 4871.1 and the requirements contained in this Standard.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1674	Safety in welding and allied processes
1674.2	Part 2: Electrical
1755	Conveyors—Safety requirements
2067	Substations and high voltage installations exceeding 1 kV a.c.
3007	Electrical installations—Surface mines and associated processing plant (series)
60974	Arc welding equipment
60974.1	Part 1: Welding power sources (IEC 60974-1:2000, MOD)
60974.6	Part 6: Limited duty portable arc welding and allied process power sources (IEC 60974-6:2003, MOD)
60974.11	Part 11: Electrode holders
1300	Electrical equipment for coal mines—Bolted flame-proof cable coupling devices
1972	Electric cables—Underground coal mines—Other than reeling and trailing
2081	Electrical equipment for coal and shale mines—Electrical protection devices (series)