

AS 3573—1988

Australian Standard<sup>®</sup>

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**ELECTRICAL EQUIPMENT FOR  
COAL MINES—  
GLOSSARY OF TERMS**

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This Australian Standard was prepared by Committee EL/23, Electrical Equipment in Coal Mines. It was approved on behalf of the Council of the Standards Association of Australia on 16 June 1988 and published on 12 September 1988.

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The following interests are represented on Committee EL/23:

Australian Coal Association  
Australian Electrical and Electronic Manufacturers Association  
Confederation of Australian Industry  
Department of Industrial Relations and Employment, N.S.W.  
Department of Mineral Resources, N.S.W.  
Department of Mines, Qld.  
Institute of Mining Electrical and Mining Mechanical Engineers  
Joint Coal Board  
Regulatory authorities (Electrical)

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*This Standard was issued in draft form for comment as DR 88006.*

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First published as AS 3573—1988.

PUBLISHED BY STANDARDS AUSTRALIA  
(STANDARDS ASSOCIATION OF AUSTRALIA)  
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 5199 2

## PREFACE

This Standard was prepared by the Association's Committee on Electrical Equipment in Coal Mines.

In general, the definitions given in this Standard are identical with those contained in AS 1852, *International electrotechnical vocabulary*. Other reference Standards are listed in Appendix A.

This Standard lists alphabetically the terms ordinarily used in relation to electrical equipment used in coal mines.

The format of the glossary is as follows:

- (a) Preferred terms are printed in bold type and are accompanied by definitions.
  - (b) Non-preferred terms are printed in light type and are cross-referenced to the preferred term, e.g. . . . . .
- |                               |                             |
|-------------------------------|-----------------------------|
| circuit interruptor           | <i>See</i> circuit-breaker. |
| (circuit interrupting device) |                             |

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## STANDARDS ASSOCIATION OF AUSTRALIA

## Australian Standard

## ELECTRICAL EQUIPMENT FOR COAL MINES—GLOSSARY OF TERMS

Term	Definition
<b>acceptable power (for a fuse-holder or a fuse-base)</b>	A stated value of power dissipation (of a fuse-link) which a fuse-holder or a fuse-base can accept under prescribed conditions of use and behaviour.
<b>access cover</b>	A cover which— <ul style="list-style-type: none"> <li>(a) requires frequent removal or opening of the cover for maintenance purposes; or</li> <li>(b) provides access to electrical equipment that—             <ul style="list-style-type: none"> <li>(i) may require adjustment or alteration; or</li> <li>(ii) is used to make and break load current under normal conditions.</li> </ul> </li> </ul>
<b>accessible, readily</b>	Capable of being reached quickly and without climbing over or removing obstructions, mounting upon a chair, or using a movable ladder, and in any case not more than 2 m above the ground, floor or platform.
<b>accessory</b>	An associated item which does not form part of basic equipment.
<b>a.c. system</b>	System of alternating voltages having a frequency of 50 Hz.
	NOTES:
	1. Alternating voltages are stated in r.m.s. values.
	2. The magnitude of variation of frequency is a matter for Regulatory Authorities and other interested parties. As a general guide it can be taken that normal frequency variations of the order of $\pm 0.25$ Hz may be anticipated and that the differences between synchronous time and standard time will be, in general, within the limits of $\pm 10$ s.
<b>active (or active conductor)</b>	Any one of those conductors of a supply system which is maintained at a difference of potential from the neutral or earthed conductor. In a system which does not include a neutral or earthed conductor, all conductors shall be considered to be active conductors.
<b>adaptor</b>	Any device designed to connect one or more cable coupling devices to equipment. It may either be attached to or be integral with the equipment. The term 'adaptor' also includes the unit to connect other types of cable terminations to equipment.
<b>aerial conductor</b>	Any stranded conductor which is supported by insulators above the ground and is directly exposed to the weather.
<b>aerial conductor, insulated</b>	An aerial conductor which is— <ul style="list-style-type: none"> <li>(a) provided with PVC insulation of 0.6/1 kV grade complying with AS 3147; or</li> <li>(b) provided with elastomer insulation as described in AS 3116 under the heading 'Aerial Cables'; or</li> <li>(c) insulated with other approved material.</li> </ul>
<b>air termination (or air termination network)</b>	That part of a lightning protective system which is intended to intercept lightning discharges.
<b>alive</b>	<i>See</i> live.
<b>ambient temperature</b>	The temperature of the air or other medium where the equipment is to be used.
<b>apparatus</b>	<i>See</i> electrical equipment.
<b>applicant</b>	Company, corporation, organization, association, partnership, individual or manufacturer's registered agent that designs, manufactures, repairs, assembles, or controls the assembly of an electrical machine or accessory and seeks approval from the relevant Regulatory Authority for its use in an explosive atmosphere in an underground coal mine.
<b>approval</b>	Formal document issued by the relevant Regulatory Authority which states that a completely assembled electrical machine or accessory has complied with the applicable requirements and which authorizes the attachment of an approval plate indicating the approval.

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