

Australian Standard®

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

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.

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)

Review of Australian Standards. *To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.*

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

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

AS 3573—1988

Australian Standard[®]

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

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) | |

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

ELECTRICAL EQUIPMENT FOR COAL MINES—GLOSSARY OF TERMS

Term	Definition
acceptable power (for a fuse-holder or a fuse-base)	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.
access cover	A cover which— <ul style="list-style-type: none"> (a) requires frequent removal or opening of the cover for maintenance purposes; or (b) provides access to electrical equipment that— <ul style="list-style-type: none"> (i) may require adjustment or alteration; or (ii) is used to make and break load current under normal conditions.
accessible, readily	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.
accessory	An associated item which does not form part of basic equipment.
a.c. system	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 ± 0.25 Hz may be anticipated and that the differences between synchronous time and standard time will be, in general, within the limits of ± 10 s.
active (or active conductor)	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.
adaptor	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.
aerial conductor	Any stranded conductor which is supported by insulators above the ground and is directly exposed to the weather.
aerial conductor, insulated	An aerial conductor which is— <ul style="list-style-type: none"> (a) provided with PVC insulation of 0.6/1 kV grade complying with AS 3147; or (b) provided with elastomer insulation as described in AS 3116 under the heading 'Aerial Cables'; or (c) insulated with other approved material.
air termination (or air termination network)	That part of a lightning protective system which is intended to intercept lightning discharges.
alive	<i>See</i> live.
ambient temperature	The temperature of the air or other medium where the equipment is to be used.
apparatus	<i>See</i> electrical equipment.
applicant	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.
approval	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.