

AS 4398.1—1996

Australian Standard[®]

**Insulators—Ceramic or glass—
Station post for indoor and
outdoor use—Voltages greater
than 1000 V a.c.**

Part 1: Characteristics

[Based on and including the full text of IEC 273:1990,
Characteristics of indoor and outdoor post insulators for
systems with nominal voltages greater than 1000 V]

This Australian Standard was prepared by Committee EL/10, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 6 May 1996 and published on 5 July 1996.

The following interests are represented on Committee EL/10:

Australasian Railways Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Porcelain Insulators Association
Electricity Supply Association of Australia
Electricity Engineers Association of New Zealand

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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 95203.

AS 4398.1—1996

Australian Standard[®]

**Insulators—Ceramic or glass—
Station post for indoor and
outdoor use—Voltages greater
than 1000 V a.c.**

Part 1: Characteristics

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

ISBN 0 7337 0602 9

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/10 on Overhead Lines.

This Standard is based on and has been reproduced from IEC 273 (1990), *Characteristics of indoor and outdoor post insulators for systems with nominal voltages greater than 1000 V*. For the purposes of this Australian Standard, the IEC text is amended, supplemented or replaced as set out in Appendix ZZ. The changes are indicated by a marginal bar against each clause, table or figure affected by a reference to Appendix ZZ.

This Standard is Part 1 of AS 4398, *Insulators—Ceramic or glass—Station post for indoor and outdoor use—Voltages greater than 1000 V a.c.* The two Parts are as follows:

Part 1: Characteristics

Part 2: Tests

The objective of the two parts of AS 4398 is to provide users and manufacturers of station post insulators with definitions of terms, requirements and acceptance criteria to facilitate the specifications of insulators.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies. Appendices designated ‘normative’ are essential to the understanding or implementation of this Standard.

As this Standard is reproduced from an international Standard, the following applies:

- (a) Its number is shown only on the cover and title pages, while the international Standard number appears only on the cover.
- (b) In the source text, ‘this International Standard’ should read ‘this Australian Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.
- (d) Where any cross-references to page numbers appear in the text these relate to page numbering in the International Standard and can be disregarded.

References to international Standards should be replaced by equivalent Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
71	Insulation co-ordination	1824	Insulation co-ordination
71-1	Part 1: Definitions, principles and rules	1824.1	Definitions, principles and rules
168	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V.	4398	Insulators—Ceramic or glass—Station post for indoor and outdoor use—Voltages greater than 1000 V a.c.
		4398.2	Part 2: Tests
506	Switching impulse tests on high-voltage insulators	—	

iii

IEC		AS
660	Tests on indoor post insulators of organic material for systems with nominal voltages greater than 1000 V up to but not including 300 kV	—
815	Guide for the selection of insulators in respect of polluted conditions	—

The following Australian documents are referred to in this Standard.

AS

- 1111 ISO metric hexagon commercial bolts and screws
- 1137 Insulators
- 1137.3 Part 3: Porcelain and glass indoor and outdoor station post insulators (for voltages greater than 1000 V a.c.)
- 1214 Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)

© 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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-