AS 4899—2007
Reconfirmed 2018

AS 4899—2007

Australian Standard®

Pin insulators—Porcelain and glass for overhead power lines—Voltages greater than 1000 V a.c.

This Australian Standard® was prepared by Committee EL-010, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 5 September 2007.
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The following are represented on Committee EL-010:

- Australasian Railway Association
- Australian Chamber of Commerce and Industry
- Australian Electrical and Electronic Manufacturers Association
- Australian Porcelain Insulators Association
- Electricity Engineers Association New Zealand
- Energy Networks Association

This Standard was issued in draft form for comment as DR 7047.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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STANDARDS AUSTRALIA

RECONFIRMATION

OF
AS 4899–2007
Pin insulators–Porcelain and glass for overhead power lines–Voltages greater than 1000 V a.c.

RECONFIRMATION NOTICE

Technical Committee EL-010 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 13 March 2018.

The following are represented on Technical Committee EL-010:
Aerial Application Association of Australia
Australian Industry Group
Civil Aviation Safety Authority
Communications, Electrical and Plumbing Union - Electrical Division
Energy Networks Australia
Energy Safe Victoria
Engineers Australia
NSW Department of Industry, Skills and Regional Development

NOTES

Australian Standard®

Pin insulators—Porcelain and glass for overhead power lines—Voltages greater than 1000 V a.c.

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-010, Overhead Lines to supersede part of AS 2947.2—2002, *Insulators—Porcelain and glass for overhead power lines—Voltages greater than 1000 V a.c.,* Part 2: *Characteristics.* After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide manufacturers and suppliers with specifications of the characteristics and dimensions of pin insulators.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies electrical and mechanical characteristics and principal dimensions for pin insulators with insulating parts of porcelain or glass, intended for a.c. overhead lines with a nominal voltage greater than 1000 V and a frequency not greater than 100 Hz.

It also applies to insulators of similar design used in substations.

NOTE: In coastal areas the use of copper thimbles is common Australian and New Zealand practice.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1112 (all parts)	ISO metric hexagon nuts
1154	Insulator and conductor fittings for overhead power lines
1154.1	Part 1: Performance, material, general requirements and dimensions
1214	Hot-dip galvanized coatings on threaded fasteners (ISO metric coarse thread series)
1237(all parts)	Plain washers for metric bolts, screws and nuts for general purposes
1275	Metric screw threads for fasteners
1824	Insulation co-ordination
1824.1	Part 1: Definitions, principles and rules
4436	Guide for the selection of insulators in respect of polluted conditions
B129	Designs for geometric limit gauges (plain and screwed in inch units)
AS/NZS	
2947	Insulators—Porcelain and glass for overhead power lines—Voltages greater than 1000 V a.c.
2947.1	Part 1: Test methods—Insulator units

1.3 DEFINITIONS

The definitions given in AS/NZS 2947.1 apply.