

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. This Standard was published on 7 December 2007.

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
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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.**

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NOTES

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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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STANDARDS AUSTRALIA**Australian Standard****Pin insulators—Porcelain and glass for overhead power lines—Voltages greater than 1000 V a.c.****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.