

Australian/New Zealand Standard™

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

Part 2: Characteristics

AS/NZS 2947.2:2002

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-010, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 13 August 2002 and on behalf of the Council of Standards New Zealand on 2 October 2002. It was published on 25 October 2002.

The following are represented on Committee EL-010:

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

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Australian/New Zealand Standard™

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

Part 2: Characteristics

Originated as part of AS C67—1939 and AS C67 Supplement—1947.
Previous edition AS 2947.2—1989.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee on Overhead lines to supersede AS 2947.2—1989.

The objective of this Standard is to provide manufacturers and suppliers with specifications of the characteristics and dimensions of particular types of porcelain and glass insulators.

Major changes to the previous edition are as follows:

- (a) Changes to the designations and dimensions of pin insulator units.
- (b) Alignment of insulation withstand voltages with AS 1824.1—1995, *Insulation co-ordination, Part 1: Definitions, principles and rules*.
- (c) The addition of requirements for string insulator units for use in polluted conditions.
- (d) Omission of string insulator units with a failing load of 190 kN.

This Standard is Part 2 of a three-part Standard arranged as follows:

AS/NZS

- | | |
|--------|---|
| 2947 | Insulators—Porcelain and glass for overhead power lines—
Voltages greater than 1000 V a.c. |
| 2947.1 | Part 1: Test methods |
| 2947.2 | Part 2: Characteristics (this Standard) |
| 2947.3 | Part 3: Couplings |

In the preparation of this Standard, consideration was given to the following IEC Standards:

- | | |
|-----------|---|
| IEC 60305 | Insulators for overhead lines with a nominal voltage above
1000 V—Ceramic or glass insulator units for a.c. systems—
Characteristics of insulator units of the cap and pin type |
| IEC 60433 | Characteristics of string insulator units of the long rod type |
| IEC 60720 | Characteristics of line post insulators |

Acknowledgment is made of the assistance received from those sources.

The term 'informative' has been used in this Standard to define the application of the appendix to which it applies. An informative appendix is for information and guidance only.

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