

AS 61466.1:2020



STANDARDS  
Australia



# Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V

**Part 1: Standard strength and end fittings (IEC 61466-1:2016  
(ED 2.0) MOD)**



AS 61466.1:2020

This Australian Standard ® was prepared by EL-010, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 18 November 2020.

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The following are represented on Committee EL-010:

- Aerial Application Association of Australia
- Australian Industry Group
- Civil Aviation Safety Authority
- Communications, Electrical and Plumbing Union — Electrical Division
- Department of Regional NSW
- Electrical Regulatory Authorities Council
- Energy Networks Australia
- Engineers Australia

This Standard was issued in draft form for comment as DR AS 61466.1:2020.

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# **Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V**

## **Part 1: Standard strength and end fittings (IEC 61466-1:2016 (ED 2.0) MOD)**

First published as AS/NZS 4435.2:1999.  
Revised and redesignated as AS 61466.1:2020.



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## Preface

This Standard was prepared by the Standards Australia Committee EL-010, Overhead Lines to supersede AS/NZS 4435.2—1999, *Insulators — Composite for overhead power lines — Voltages greater than 1 000 V a.c. — Part 2: Standard strength classes and end fittings for string insulator units*.

The objective of this document is to specify values for the mechanical characteristics of the composite string insulator units and define the main dimensions of the couplings to be used on the composite string insulator units in order to permit the assembly of insulators or fittings supplied by different manufacturers and to allow, whenever practical, interchangeability with existing installations. This document also defines a standard designation system for composite string insulator units.

This document applies to —

- (a) composite string insulator units for a.c. overhead lines with a nominal voltage greater than 1 000 V and a frequency not greater than 100 Hz;
- (b) insulators of similar design used in substations or on electric traction lines;
- (c) string insulator units of composite type with ball, socket, tongue, clevis, Y-clevis or eye couplings, or a combination thereof; and
- (d) dimensions necessary for assembly of the couplings.

This document does not specify properties of material and working loads.

This document is an adoption with national modifications, and has been reproduced from, IEC 61466-1:2016, *Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V — Part 1: Standard strength classes and end fittings*.

The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the variations to IEC 61466-1:2016 for the application of this document in Australia.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this part of IEC 61466” should read “this document”.
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