AS 61466.1:2020





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 $^{\ensuremath{\mathbb{R}}}$ was prepared by EL-010, Overhead Lines. It was approved on behalf of the Council of Standards Australia on 18 November 2020.

This Standard was published on 4 December 2020.

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.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting: www.standards.org.au

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.



© IEC 2020 — All rights reserved © Standards Australia Limited 2020

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Cth).

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 <u>Appendix ZZ</u>, which has been added at the end of the source text.

<u>Appendix ZZ</u> 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".
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

This is a free page sample. Access the full version online.

NOTES



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

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation