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STANDARDS
Australia

Technical Specification

Selection and dimensioning of high-voltage insulators intended for use in polluted conditions

Part 2: Ceramic and glass insulators for a.c. systems



SA TS IEC 60815.2:2020

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- 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
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Part 2: Ceramic and glass insulators for a.c. systems

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Preface

This Technical Specification was prepared by the Standards Australia Committee EL-010, Overhead Lines to supersede AS 4436—1996, *Guide for the selection of insulators in respect of polluted conditions*.

The objective of this document is to provide the user with a means to —

- (a) determine the reference unified specific creepage distance (RUSCD) from site pollution severity (SPS) class;
- (b) evaluate the suitability of different insulator profiles;
- (c) determine the necessary USCD by applying corrections for insulator shape, size, position, etc. to the RUSCD; and
- (d) if required, determine the appropriate test methods and parameters to verify the performance of the selected insulators.

This document applies to the selection of ceramic and glass insulators for a.c. systems, and the determination of their relevant dimensions, to be used in high-voltage systems with respect to pollution.

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