

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Insulators for overhead lines with a nominal voltage above 1000 V –  
Part 1: Ceramic or glass insulator units for a.c. systems – Definitions, test  
methods and acceptance criteria**

**Isolateurs pour lignes aériennes de tension nominale supérieure à 1 000 V –  
Partie 1: Éléments d'isolateurs en matière céramique ou en verre pour systèmes  
à courant alternatif – Définitions, méthodes d'essai et critères d'acceptation**



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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

COMMISSION  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**INSULATORS FOR OVERHEAD LINES  
WITH A NOMINAL VOLTAGE ABOVE 1 000 V –**
**Part 1: Ceramic or glass insulator units for AC systems –  
Definitions, test methods and acceptance criteria**
**FOREWORD**

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IEC 60383 has been prepared by IEC technical committee 36: Insulators. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 1993. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) The complete document has been revised and updated. The layout of the document has been changed in order to increase readability;
- b) RIV test has been added (Clause 14);
- c) Impulse puncture test in air has been added (15.2);
- d) Residual strength test has been added (Clause 21);

- e) Zinc sleeve test has been added (Clause 28);
- f) Impact test has been added (Clause 30);
- g) Annex C, coatings on ceramic and glass insulators has been added;
- h) Annex D, impact test has been added.

The text of this International Standard is based on the following documents:

Draft	Report on voting
36/564/FDIS	36/571/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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## INTRODUCTION

This part of IEC 60383 deals with four different types of insulators:

- Pin insulators
- Line post insulators
- String insulator units
- Insulators for overhead electric traction lines

Certain clauses of this document contain general requirements and other clauses contain specific tests relevant to each of the above-mentioned insulators.