



FINAL DRAFT INTERNATIONAL STANDARD

Impulse tests on cables and their accessories

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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TITLE:

Impulse tests on cables and their accessories

NOTE FROM TC/SC OFFICERS:

This document replaces the previous version which was issued with the draft FDIS..

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

IMPULSE TESTS ON CABLES AND THEIR ACCESSORIES

FOREWORD

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International Standard IEC 60230 has been prepared by IEC technical committee 20: Electric cables.

This second edition cancels and replaces the first edition published in 1966. This edition constitutes a technical revision.

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

- a) the structure of the standard takes into account the current style of IEC standards;
- b) this document is no longer a “Recommendation” but an “International Standard”;
- c) the test installation is no longer related to gas-pressure and oil-filled cables only;
- d) switching-impulse voltage and superimposed impulse voltage tests have been included;
- e) for the measuring system the reference to IEC 60060-2 has been added. The reference to the sphere gap method has been moved to Annex B.

The text of this standard is based on the following documents:

FDIS	Report on voting
20/XX/FDIS	20/XX/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

The National Committees are requested to note that for this publication the stability date is 2022.

THIS TEXT IS INCLUDED FOR THE INFORMATION OF THE NATIONAL COMMITTEES AND WILL BE DELETED AT THE PUBLICATION STAGE.

IMPULSE TESTS ON CABLES AND THEIR ACCESSORIES

1 Scope

This document defines the procedure for carrying out withstand lightning and switching impulse tests and withstand superimposed impulse test on cables and their accessories.

This document applies solely to the methods of carrying out the tests as such, independently of the problem of selecting the test levels to be specified. The voltages pertaining to the system on which cables and accessories are to be used are given in IEC 60183 or in the relevant product standard.

This document specifies the following requirements:

- the characteristics and state of the test installation and those parts of the procedure which are common to withstand tests and tests above the withstand level;
- the procedure for carrying out withstand lightning, switching impulse tests and superimposed impulse test;
- the procedure for carrying out tests above the withstand level which is intended for research purposes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60060-1:2010, *High-voltage test techniques – Part 1: General definitions and test requirements*