# IEC 63294

Edition 1.0 2021-11

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

## Test methods for electric cables with rated voltages up to and including 450/750 V

## Méthodes d'essais pour les câbles électriques de tension assignée au plus égale à 450/750 V

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# TEST METHODS FOR ELECTRIC CABLES WITH RATED VOLTAGES UP TO AND INCLUDING 450/750 V

## FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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IEC 63294 has been prepared by IEC technical committee 20: Electric cables. It is an International Standard.

This first edition cancels and replaces IEC 60227-2:1997, IEC 60227-2:1997/AMD1:2003, IEC 60245-2:1994, IEC 60245-2:1994/AMD1:1997, IEC 60245-2:1994/AMD2:1997, IEC 62821-2:2015 and IEC 63010-2:2017. A table of cross-references for tests is given in Annex A.

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

| Draft | Report on voting |
|---|---|
| 20/1970/FDIS | 20/1990/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. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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

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- withdrawn,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

# TEST METHODS FOR ELECTRIC CABLES WITH RATED VOLTAGES UP TO AND INCLUDING 450/750 V

## 1 Scope

This document specifies the test methods for electric cables with rated voltages up to and including 450/750 V not included in the IEC 60811 series.

## 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 60811-201, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness*

IEC 60811-202, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath*

IEC 60811-203, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 203: General tests – Measurement of overall dimensions*

IEC 60811-401:2012, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 401: Miscellaneous tests – Thermal ageing methods – Ageing in an air oven*

IEC 60811-501, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds*

IEC 62230, *Electric cables – Spark-test method*

IEC 60502-1, *Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m$ = 1,2 kV) up to 30 kV ($U_m$ = 36 kV) – Part 1: Cables for rated voltages of 1 kV ($U_m$ = 1,2 kV) and 3 kV ($U_m$ = 3,6 kV)*

ISO 1302, *Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation*

## 3 Terms and definitions

No terms and definitions are listed in this document.

IEC and ISO maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
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