

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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CONTENTS

FOREWORD	5
1 Scope	7
2 Normative references	7
3 Terms and definitions	7
4 General requirements	8
4.1 Sampling	8
4.2 Pre-conditioning	8
4.3 Test temperature	8
4.4 Test voltage	8
4.5 Test values	8
5 Electrical test methods	8
5.1 Electrical resistance of conductors	8
5.2 Voltage test carried out on completed cables	9
5.3 Voltage test on cores in water	9
5.3.1 General	9
5.3.2 Test sample	9
5.3.3 Procedure	9
5.3.4 Requirements	9
5.4 Insulation resistance	9
5.5 Insulation resistance at temperatures above 90 °C	10
5.6 Long-term resistance of insulation to direct current	11
5.6.1 Test sample	11
5.6.2 Procedure	11
5.6.3 Requirements	11
5.7 Absence of faults in insulation	11
5.7.1 General	11
5.7.2 Spark test	12
5.7.3 Voltage test	12
5.8 Surface resistance of sheath	12
5.8.1 Test samples	12
5.8.2 Procedure	12
5.8.3 Requirements	13
6 Non-electrical test methods	13
6.1 Checking of the durability of colours and markings	13
6.2 Measurement of thickness of insulation	13
6.2.1 Procedure	13
6.2.2 Evaluation of results	13
6.3 Measurement of thickness of sheath	13
6.3.1 Procedure	13
6.3.2 Evaluation of results	13
6.4 Measurement of overall dimensions and ovality	13
6.5 Solderability test for non-tinned conductors	14
6.5.1 General	14
6.5.2 Selection of samples and preparation of test pieces	14
6.5.3 Description of the solder bath	14
6.5.4 Test procedure	15

6.5.5	Requirements	15
6.6	Flexing test	15
6.6.1	General	15
6.6.2	Apparatus	15
6.6.3	Sample preparation	16
6.6.4	Current applied on cores	16
6.6.5	Voltage between cores	16
6.6.6	Fault detection (construction of the flexing apparatus)	17
6.7	Static flexibility test	17
6.8	Bending test	18
6.9	Wear resistance test	19
6.10	Drop test	20
6.11	Void	20
6.12	Three-pulley flexing test	20
6.12.1	Test method	20
6.12.2	Requirements	22
6.13	Kink test	22
6.13.1	Applicability	22
6.13.2	Apparatus	22
6.13.3	Sample	22
6.13.4	Test procedure	22
6.13.5	Requirements	22
6.14	Tests for mechanical properties after air oven ageing of insulation consisting of rubber compound	23
6.14.1	General	23
6.14.2	Sampling and preparation	24
6.14.3	Ageing procedure	24
6.14.4	Preparation of test pieces and tensile test	24
6.15	Test for resistance to heat of textile braids	24
6.15.1	General	24
6.15.2	Apparatus	24
6.15.3	Test sample	24
6.15.4	Preparation	24
6.15.5	Test procedure	25
6.15.6	Requirements	25
6.16	Test for resistance of sheath to water	25
6.16.1	General	25
6.16.2	Sampling and preparation of test pieces	25
6.16.3	Procedure	26
6.16.4	Evaluation of results	26
6.17	Chemical test: Determination of halogens – Elemental test	26
6.17.1	Equipment	26
6.17.2	Materials	26
6.17.3	Procedure	26
Annex A (informative)	Cross-references table	28
Bibliography		29

Figure 1 – Positioning of electrodes	11
Figure 2 – Flexing apparatus	16
Figure 3 – Static flexibility test	18
Figure 4 – Bending test apparatus	19
Figure 5 – Arrangement for wear-resistance test.....	20
Figure 6 – Modified carrier C	21
Figure 7 – Kink test apparatus	23
Figure 8 – Assembled test apparatus	25
Table A.1 – Cross-references for tests	28

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

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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.

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- 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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