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NSAI Standards

Irish Standard
I.S. EN 60811-100:2012

Electric and optical fibre cables - Test methods for non-metallic materials -- Part 100: General (IEC 60811-100:2012 (EQV))

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This document replaces:	*This document is based on:*	*Published:*
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 60811-100

June 2012

ICS 29.035.01; 29.060.20

Supersedes EN 60811-1-1:1995 (partially) + A1:2001 (partially), EN 60811-1-2:1995 (partially) + A2:2000 (partially), EN 60811-1-3:1995 (partially) + A1:2001 (partially), EN 60811-1-4:1995 (partially) + A2:2001 (partially), EN 60811-2-1:1998 (partially) + A1:2001 (partially), EN 60811-3-1:1995 (partially) + A1:1996 (partially) + A2:2001 (partially), EN 60811-3-2:1995 (partially) + A2:2004 (partially), EN 60811-4-1:2004 (partially), EN 60811-4-2:2004 (partially), EN 60811-5-1:1999 (partially) + A1:2004 (partially)

English version

Electric and optical fibre cables - Test methods for non-metallic materials - Part 100: General

(IEC 60811-100:2012)

Câbles électriques et à fibres optiques - Méthodes d'essai pour les matériaux non-métalliques - Partie 100: Généralités (CEI 60811-100:2012)

Kabel, isolierte Leitungen und Glasfaserkabel - Prüfverfahren für nichtmetallene Werkstoffe - Teil 100: Allgemeines (IEC 60811-100:2012)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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Ref. No. EN 60811-100:2012 E

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Foreword

The text of document 20/1279/FDIS, future edition 1 of IEC 60811-100, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60811-100:2012.

The following dates are fixed:

• latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2013-01-16
• latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2015-04-16

This document supersedes EN 60811-1-1:1995 (partially) + A1:2001 (partially), EN 60811-1-2:1995 (partially) + A2:2000 (partially), EN 60811-1-3:1995 (partially) + A1:2001 (partially), EN 60811-1-4:1995 (partially) + A2:2001 (partially), EN 60811-2-1:1998 (partially) + A1:2001 (partially), EN 60811-3-1:1995 (partially) + A1:1996 (partially) + A2:2001 (partially), EN 60811-3-2:1995 (partially) + A2:2004 (partially), EN 60811-4-1:2004 (partially), EN 60811-4-2:2004 (partially), EN 60811-5-1:1999 (partially) + A1:2004 (partially).

EN 60811-100:2012 collects together general matters that apply to the restructured EN 60811 series. A detailed explanation is provided in the Introduction. Annex A provides full information on the relation between the current and the previous series.

This revised series of EN 60811 is based upon the principle of “one test – one part”. One significant technical change that now applies throughout the series is a defined minimum scheme for the presentation of test reports.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This standard covers the Principle Elements of the Safety Objectives for Electrical Equipment Designed for Use within Certain Voltage Limits (LVD - 2006/95/EC)

Endorsement notice

The text of the International Standard IEC 60811-100:2012 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 60050-461	-	International Electrotechnical Vocabulary - Part 461: Electric cables	-	-
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)	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRIC AND OPTICAL FIBRE CABLES – TEST METHODS FOR NON-METALLIC MATERIALS –

Part 100: General

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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International Standard IEC 60811-100 has been prepared by IEC technical committee 20: Electric cables.

This first edition of IEC 60811-100 collects together general matters that apply to the restructured IEC 60811 series. A detailed explanation is provided in the Introduction. Annex A provides full information on the relation between the current and the previous series.

This revised series of IEC 60811 is based upon the principle of "one test – one part". One significant technical change that now applies throughout the series is a defined minimum scheme for the presentation of test reports.

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

FDIS	Report on voting
20/1279/FDIS	20/1328/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.

A list of all the parts in the IEC 60811 series, published under the general title *Electric and optical fibre cables – Test methods for non-metallic materials*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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.

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INTRODUCTION

The IEC 60811 series specifies the test methods to be used for testing non-metallic materials of all types of cables. These test methods are intended to be referenced in standards for cable construction and for cable materials.

NOTE 1 Non-metallic materials are typically used for insulating, sheathing, bedding, filling or taping within cables.

NOTE 2 These test methods are accepted as basic and fundamental and have been developed and used over many years principally for the materials in all energy cables. They have also been widely accepted and used for other cables, in particular optical fibre cables, communication and control cables and cables for ships and offshore applications.

Each test method is contained in a separately numbered part. These respective parts are identified in Table A.1 of Annex A, with the corresponding clauses from the previous version of this part given for information. Table A.2 of Annex A lists the clauses of the previous version, to facilitate location of the corresponding part in the current version.

SAI GLOBAL

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