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**Električni in optični kabli - Preskuševalne metode za nekovinske materiale - 405.**  
**del: Drugi preskusi - Preskus termične stabilnosti izolacij in plaščev iz PVC**

Electric and optical fibre cables - Test methods for non-metallic materials - Part 405:  
Miscellaneous tests - Thermal stability test for PVC insulations and PVC sheaths

Kabel, isolierte Leitungen und Glasfaserkabel - Prüfverfahren für nichtmetallene  
Werkstoffe - Teil 405: Sonstige Prüfungen - Prüfung der thermischen Stabilität von PVC-  
Isolierhüllen und PVC-Mänteln

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Câbles électriques et câbles à fibres optiques - Méthodes d'essai pour les matériaux non  
-métalliques - Partie 405: Essais divers - Essai de stabilité thermique des enveloppes  
isolantes et des gaines en PVC

**Ta slovenski standard je istoveten z: EN 60811-405:2012**

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**ICS:**

29.035.01	Izolacijski materiali na splošno	Insulating materials in general
29.060.20	Kabli	Cables

**SIST EN 60811-405:2012** en,fr,de

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 60811-405**

June 2012

ICS 29.035.01; 29.060.20

Supersedes EN 60811-3-2:1995 (partially) + A2:2004 (partially)

English version

**Electric and optical fibre cables -  
Test methods for non-metallic materials -  
Part 405: Miscellaneous tests -  
Thermal stability test for PVC insulations and PVC sheaths  
(IEC 60811-405:2012)**

Câbles électriques et à fibres optiques -  
Méthodes d'essai pour les matériaux non-  
métalliques -  
Partie 405: Essais divers -  
Essai de stabilité thermique pour les  
enveloppes isolantes et gaines en PVC  
(CEI 60811-405:2012)

Kabel, isolierte Leitungen und  
Glasfaserkabel -  
Prüfverfahren für nichtmetallene  
Werkstoffe -  
Teil 405: Sonstige Prüfungen -  
Prüfung der thermischen Stabilität von  
PVC-Isolierhüllen und PVC-Mänteln  
(IEC 60811-405:2012)

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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**

## Foreword

The text of document 20/1289/FDIS, future edition 1 of IEC 60811-405, prepared by IEC/TC 20 "Electric cables" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60811-405:2012.

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 Clause 9 of EN 60811-3-2:1995 + A2:2004 (partially). Full details of the replacements are shown in Annex A of EN 60811-100:2012.

There are no technical changes with respect to EN 60811-3-2:1995 + A2:2004, but see the Foreword to EN 60811-100:2012.

This standard is to be read in conjunction with EN 60811-100.

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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 60811-405:2012 was approved by CENELEC as a European Standard without any modification.

## 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60811-100	2012	Electric and optical fibre cables - Test methods for non-metallic materials - Part 100: General	EN 60811-100	2012
ISO 695	1991	Glass - Resistance to attack by a boiling aqueous solution of mixed alkali - Method of test and classification	-	-
ISO 719	1985	Glass - Hydrolytic resistance of glass grains at 98 degrees C - Method of test and classification	-	-
ISO 1776	1985	Glass - Resistance to attack by hydrochloric acid at 100 degrees C - Flame emission or flame atomic absorption spectrometric method	-	-

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IEC 60811-405

Edition 1.0 2012-03

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Electric and optical fibre cables – Test methods for non-metallic materials –  
Part 405: Miscellaneous tests – Thermal stability test for PVC insulations and  
PVC sheaths**

**Câbles électriques et à fibres optiques – Méthodes d'essai pour les matériaux  
non-métalliques –  
Partie 405: Essais divers – Essai de stabilité thermique pour les enveloppes  
isolantes et gaines en PVC**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**ELECTRIC AND OPTICAL FIBRE CABLES –  
TEST METHODS FOR NON-METALLIC MATERIALS –**
**Part 405: Miscellaneous tests –  
Thermal stability test for PVC insulations and PVC sheaths**

## FOREWORD

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International Standard IEC 60811-405 has been prepared by IEC technical committee 20: Electric cables.

This Part 405 of IEC 60811 cancels and replaces Clause 9 of IEC 60811-3-2:1985, which is withdrawn. Full details of the replacements are shown in Annex A of IEC 60811-100:2012.

There are no specific technical changes with respect to the previous edition, but see the Foreword to IEC 60811-100:2012.