SLOVENSKI STANDARD
SIST EN 60811-501:2012/oprA2:2023

01-april-2023

Električni in optični kabli - Preskuševalne metode za nekovinske materiale - 501. del: Mehanski preskusi - Preskusi za ugotavljanje mehanskih lastnosti zmesi za izolacije in oplaščenja - Dopolnilo A2

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

Kabel, isolierte Leitungen und Glasfaserkabel - Prüfverfahren für nichtmetallene Werkstoffe - Teil 501: Mechanische Prüfungen - Prüfungen zur Bestimmung der mechanischen Eigenschaften von Isolier- und Mantelwerkstoffen

Câbles électriques et à fibres optiques - Méthodes d'essai pour les matériaux non métalliques - Partie 501: Essais mécaniques - Détermination des propriétés mécaniques des mélanges pour les enveloppes isolantes et les gaines

Ta slovenski standard je istoveten z: **EN 60811-501:2012/prA2:2023**

ICS:

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

SIST EN 60811-501:2012/oprA2:2023 **en**

20/2082/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:	
IEC 60811-501/AMD2 ED1	
DATE OF CIRCULATION:	CLOSING DATE FOR VOTING:
2023-01-27	**2023-04-21**
SUPERSEDES DOCUMENTS:	
20/2048/CD, 20/2075A/CC	

IEC TC 20 : ELECTRIC CABLES	
SECRETARIAT: Germany	SECRETARY: Mr Walter Winkelbauer
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: ☐ EMC ☐ ENVIRONMENT	☐ QUALITY ASSURANCE ☐ SAFETY
☒ SUBMITTED FOR CENELEC PARALLEL VOTING **Attention IEC-CENELEC parallel voting** The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting. The CENELEC members are invited to vote through the CENELEC online voting system.	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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- any relevant patent rights of which they are aware and to provide supporting documentation,
- any relevant “in some countries” clauses to be included should this proposal proceed. Recipients are reminded that the enquiry stage is the final stage for submitting "in some countries" clauses. See AC/22/2007.

TITLE:

Amendment 2 - 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

PROPOSED STABILITY DATE: 2030

NOTE FROM TC/SC OFFICERS:

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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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

AMENDMENT 2

FOREWORD

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Amendment 2 to IEC 60811-501:2012 has been prepared by IEC technical committee 20: Electric cables.

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

Draft	Report on voting
20/XX/FDIS	20/XX/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 Amendment 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.

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4 Test method

4.2.1 General

Change the second paragraph to read:

When the ageing treatment is to be carried out on prepared test pieces (in accordance with IEC 60811-401), the test pieces for the ageing treatment shall be from positions adjacent to the test pieces used for the test without ageing. Preparation and conditioning of test pieces for ageing treatment and test pieces without ageing shall be the same.

Replace NOTE by the following new text:

Where further increased test reliability is necessary, than the tests on aged and unaged test pieces shall be performed by the same person using the same testing method and the same apparatus, in the same laboratory.

Add, after the third paragraph, the following new NOTE:

NOTE: It is recommended that the tensile tests on the aged and unaged test pieces are made in immediate succession. Retain unaged samples at laboratory conditions for future testing.

4.2.4 Determination of cross-sectional area

a) Dumb-bell test piece

Change the fourth paragraph to read:

The measurements shall be carried out by using a suitable instrument, e.g. optical device, dial gauge or micrometer, giving a contact pressure not exceeding 0,07 N/mm^2 .

4.3 Sheath

4.3.1 General