

SLOVENSKI
STANDARD

SIST HD 22.11
S1:1998/A1:1999

prva izdaja
november 1999

Rubber insulated cables of rated voltages up to and including 450/750 V – Part 11:
EVA cords and flexible cables - Amendment A1

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[SIST HD 22.11 S1:1998/A1:1999](https://standards.iteh.ai/catalog/standards/sist/aff132f5f39-4e66-88a6-0db780efb373/sist-hd-22-11-s1-1998-a1-1999)
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ICS 29.060.20

Referenčna številka
SIST HD 22.11 S1:1998/A1:1999(en)

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ICS 29.060.20

Descriptors: Insulated conductor, insulated cable, flexible cable, outer sheath, rubber, vulcanized rubber, synthetic rubber, heat resistance, designation, dimension, test, marking

English version

**Rubber insulated cables of rated voltages up to and
including 450/750 V
Part 11: EVA cords and flexible cables**

Conducteurs et câbles isolés au
caoutchouc de tension assignée
au plus égale à 450/750 V
Partie 11: Câbles souples à
isolation EVA

Gummi-isolierte Leitungen mit
Nennspannungen bis 450/750 V
Teil 11: EVA Schlauchleitungen

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This amendment A1 modifies the Harmonization Document HD 22.11 S1:1995; it was approved by CENELEC on 1998-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this amendment on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German).

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

This amendment was prepared by the Technical Committee CENELEC TC20, Electric cables, and agreed at the Dublin meeting (April 1997) to go forward to the Unique Acceptance Procedure.

This amendment has been prepared within the regular maintenance programme which covers all Parts of HD 22.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to HD 22.11 S1:1995 on 1998-08-01.

The following dates were fixed:

- latest date by which the existence of the amendment has to be announced at national level (doa) 1998-12-01
- latest date by which the amendment has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 1999-06-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2000-06-01

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Amendment A1 to HD 22.11 S1

Clause 2

Amend "HD 505" to "EN 60811" and delete "(Endorsing IEC 811)".

Sub-clause 3.3.7

In paragraph 1, line 1, delete the word "tough".

Amend the end of the sub-clause to read:

" Part 1, sub-clause 3.2"

Table II

Delete existing Table II and replace as attached.

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Table II
 Tests for Types H05GG-F and H05GGH2-F

1	2	3	4	5
Ref. No.	Tests	Category of test	Test method described in	
			HD/EN	Clause
1.	<u>Electrical tests</u>			
1.1	Resistance of conductors	T, S	22.2	2.1
1.2	Voltage test on cores according to specified insulation thickness			
1.2.1	- at 1500V up to and including 0,6mm	T	22.2	2.3
1.2.2	- at 2000V exceeding 0,6mm	T	22.2	2.3
1.3	Voltage test on cores at 2000V	T, S	22.2	2.2
1.4	Absence of faults on insulation	R	22.2	2.6
1.5	Surface resistance of sheath	T	22.2	2.7
2.	<u>Provisions covering constructional and dimensional characteristics</u>			
2.1	Checking of compliance with constructional provisions	T, S	22.1	Inspection and manual tests
2.2	Measurement of thickness of insulation	T, S	22.2	1.9
2.3	Measurement of thickness of sheath	T, S	22.2	1.10
2.4	Measurement of overall diameter			
2.4.1	Mean value	T, S	22.2	1.11
2.4.2	Ovality	T, S	22.2	1.11
2.5	Solderability test (Plain conductors)	T	22.2	1.12
3.	<u>Mechanical properties of insulation</u>			
3.1	Tensile test before ageing	T	60811-1-1	9.1
3.2	Tensile test after ageing in the air oven	T	60811-1-2	8.1.3.1
3.3	Tensile test after ageing in the air bomb	T	60811-1-2	8.2
3.4	Hot set test	T	60811-2-1	9
3.5	Bending test for insulation at low temperature	T	60811-1-4	8.1
4.	<u>Mechanical properties of sheath</u>			
4.1	Tensile test before ageing	T	60811-1-1	9.2
4.2	Tensile test after ageing in air oven	T	60811-1-2	8.1.3.1
4.3	Tensile test after ageing in air bomb	T	60811-1-2	8.2
4.4	Hot set test	T	60811-2-1	9
4.5	Bending test for sheath at low temperature ⁽¹⁾	T	60811-1-4	8.2
4.6	Elongation test for sheath at low temperature ⁽²⁾	T	60811-1-4	8.4
5.	<u>Mechanical strength of completed cable⁽³⁾</u>	T	22.2	3.1 and 2.3
5.1	Flexing test followed, after immersion in water, by a voltage test: - at 1500V on cores with specified insulation thickness up to and including 0,6mm - at 2000V on cores with specified insulation thickness exceeding 0,6mm			

(1) Only applicable to cables having mean overall diameters up to and including 12,5mm
 (2) Only applicable if the mean overall diameter of the cable exceeds 12,5mm
 (3) Not applicable to cables having conductors greater than 4mm².