

SLOVENSKI STANDARD SIST HD 22.1 S2:1998/A17:1998

01-februar-1998

Rubber insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements - Amendment A17

Rubber insulated cables of rated voltages up to and including 450/750 V -- Part 1: General requirements

(standards.iteh.ai)
Conducteurs et câbles isolés au caoutchouc, de tension assignée au plus égale à 450/750 V -- Partie 1: Prescriptions générales : 1998/A17:1998

https://standards.iteh.ai/catalog/standards/sist/aab504ff-229d-4a07-a95a-

Ta slovenski standard je istoveten z: HD 22.1 S2:1998-a17-1998

ICS:

29.060.20 Kabli Cables

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<u>SIST HD 22.1 S2:1998/A17:1998</u> https://standards.iteh.ai/catalog/standards/sist/aab504ff-229d-4a07-a95a-0f69a8c4802b/sist-hd-22-1-s2-1998-a17-1998

HARMONIZATION DOCUMENT DOCUMENT D'HARMONISATION HARMONISIERUNGSDOKUMENT

HD 22.1 S2/A17

March 1995

UDC 621.315.211.2.027.457-777.1/.2-777.6.001.2.002.2.001.4(083.71)(083.73)621.315.616 ICS 29.060.20

Descriptors: See HD 22.1 S2:1992

REPUBLIKA SLOVENIJA MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO Urad RS za standardizacijo in meroslovie

English version LJUBLJANA

PREVZET PO METODI RAZGLASITVE

Rubber insulated cables of rated voltages up to and including 450/750 V Part 1: General requirements

-D2-1998

Conducteurs et câbles isolés au caoutchouc, de tension assignée au plus

égale à 450/750 V Partie 1: Prescriptions générales Isolierte Starkstromleitungen mit einer Isolierung aus Gummi mit Nennspannungen bis 450/750 V Teil 1: Allgemeine Anforderungen

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This amendment A17 modifies the Harmonization Document HD 22.1 S2:1992; it was approved by CENELEC on 1995-02-15. 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, 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

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Page 2 HD 22.1 S2:1992/A17:1995

Foreword

This amendment was prepared by the Technical Committee CENELEC TC 20, Electric cables.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A17 to HD 22.1 S2:1992 on 1995-02-15.

The following dates were fixed:

100

1

 latest date by which the existence of the amendment has to be announced at national level

(doa) 1995-09-01

 latest date by which the amendment has to be implemented at national level by publication of a harmonized national standard or by endorsement

(dop) 1996-03-01

 latest date by which the national standards conflicting with the amendment have to be withdrawn

(dow) 1996-03-01

For products which have complied with HD 22.1 S2:1992 and its amendments A11:1992, A12:1992, A13:1992, A14:1994, A15:1993, A16:1994 and A18:1995 before 1996-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1997-03-01.

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<u>SIST HD 22.1 S2:1998/A17:1998</u> https://standards.iteh.ai/catalog/standards/sist/aab504ff-229d-4a07-a95a-0f69a8c4802b/sist-hd-22-1-s2-1998-a17-1998



HD 22.1 S2:1992/A17:1995

Sub-clause 5.5.1

After the first sentence add the following type to the list of compounds:

"Type EM 4 for cables sheathed with vulcanised EVA or equivalent synthetic elastomer".

Table II

Add compound EM 4 as attached.

TABLE II

REQUIREMENTS FOR THE NON-ELECTRICAL TESTS FOR VULCANISED RUBBER SHEATH

1	2	3	4 .	5	6
Ref. No.	Test	Unit	Type of compound EM4	Test method described in	
				HD	Clause
1.	Tensile strength and elongation at break				
1.1	Properties in the state as delivered			505.1.1	9.2
1.1.1	Value to be obtained for the tensile ARI strength: - median, min. (standards.)	PRI twhoa	EVIEW i) 6.5	۵	
1.1.2	Value to be obtained for the elongation at break: - median this in the standards iteh ai catalog standards of the standards o	ist/aab/504ff	229d-4a0 206 95a-		
1.2	Properties after ageing in air oven			505.1.2	8.1.3.1
1.2.1	Ageing conditions ⁽³⁾ : - temperature - duration of treatment	°C h	150±3 10 x 24		
1.2.2	Values to be obtained for the tensile strength: - median, min variation ⁽²⁾ , max.	N/mm² %	±30		
1.2.3	Value to be obtained for the elongation: - median, min variation ⁽²⁾ , max.	% %	- ±30		
1.3	Properties after ageing in the air bomb		,	505.1.2	8.2
1.3.1	Ageing conditions: - temperature - duration of treatment	°C h	150±3 7 x 24		
1.3.2	Value to be obtained for the tensile strength: - median, min variation ⁽²⁾ , max.	N/mm² %	6.O -		
1.3.3	Value to be obtained for the elongation at break: - median, min variation ⁽²⁾ , max.	% %	-30(1)		

Page 4 HD 22.1 S2:1992/A17:1995

REQUIREMENTS FOR THE NON-ELECTRICAL TESTS FOR VULCANISED RUBBER SHEATH (concluded)

TABLE II

1	2	3	4	5	6
Ref. No.	Test	Unit	Type of compound EM4	5 6 Test method described in	
				HD	Clause
2.	Hot set test			505.2.1	9
2.1	Conditions of treatment: - temperature - time under load - mechanical stress	°C min. N/cm²	250±3 15 20		
2.2	Test requirements: - max. elongation under load - max. elongation after unloading	% %	100 25	•	
3.	Bending test at low temperature			505.1.4	8.2
3.1	Test conditions: - temperature - period of exposure Teh STANDA Results to be obtained	°c	-15±2 See HD 505.1.4 Sub-clause 8.2.3 REVIEW no cracks	•	
4.	Elongation test at low temperature		l.ai)	505.1.4	8.4
4.1	Test conditions: SIST HD 22.1 S2 - temperature https://standards.iteh.ai/catalog/standards.iteh.	::1998/A17: irds/sist/aab	<u>1998</u> 504ff-229 d5≒æ2 7-a95a-		
4.2	Results to be obtained: - elongation without break minimum	%	30		·
5.	Pressure test at high temperature			505.3.1	8.2
5.1	Test conditions: - force exerted by blade - K value: 1.0 - duration of heating under load - temperature	h °C	0.5 150±2		
5.2	Result to be obtained: - median of the depth of penetration max.	%	50		

No limit for the positive tolerance.

(1)

Variation is the difference between the median value after ageing and the median value without ageing, expressed as a percentage of the latter.

Unless otherwise specified in the relevant cable ageifications and the median value without ageing, expressed as a

Unless otherwise specified in the relevant cable specifications a rotating fan inside the oven is normally permissible when testing rubber compounds. However, in case of dispute, ageing shall be carried out in an oven which is designed to operate without a fan rotating inside it.