

**SLOVENSKI STANDARD**  
**SIST HD 21.7 S2:1998/A1:2000**  
**01-september-2000**

---

**Kabli s polivinilkloridno izolacijo za naznačene napetosti do vključno 450/750 V - 7. del: Enožilni neoplaščeni kabli za notranje ožičenje za delovno temperaturo vodnika 90 °C**

Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7: Single core non-sheathed cables for internal wiring for a conductor temperature of 90° C

Polyvinylchlorid-isolierte Leitungen mit Nennspannungen bis 450/750 V - Teil 7: Einadrige Leitungen ohne Mantel für die innere Verdrahtung mit einer höchstzulässigen Betriebstemperatur am Leiter von 90° C

[SIST HD 21.7 S2:1998/A1:2000](https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-2020-0102-217s2)

[https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-](https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-2020-0102-217s2)

Conducteurs et câbles isolés au polychlorure de vinyle, de tension assignée au plus égale à 450/750 V - Partie 7: Conducteurs pour une température de l'âme de 90° C, pour filerie interne

**Ta slovenski standard je istoveten z: HD 21.7 S2:1996/A1:1999**

---

**ICS:**

29.060.20      Kabli      Cables

**SIST HD 21.7 S2:1998/A1:2000      en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 21.7 S2:1998/A1:2000

<https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-b5fce2018aef/sist-hd-21-7-s2-1998-a1-2000>

English version

**Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V**  
**Part 7: Single core non-sheathed cables for internal wiring for a conductor temperature of 90° C**

Conducteurs et câbles isolés au polychlorure de vinyle, de tension assignée au plus égale à 450/750 V  
Partie 7: Conducteurs pour une température de l'âme de 90° C, pour filerie interne

Polyvinylchlorid-isolierte Leitungen mit Nennspannungen bis 450/750 V  
Teil 7: Einadrige Leitungen ohne Mantel für die innere Verdrahtung mit einer höchstzulässigen Betriebstemperatur am Leiter von 90° C

<https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-b5fce2018aef/sist-hd-21-7-s2-1998-a1-2000>

This amendment A1 modifies the Harmonization Document HD 21.7 S2:1996; it was approved by CENELEC on 1999-08-01. 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 TC 20, Electric cables.

This amendment has been prepared within the regular maintenance programme which covers all parts of HD 21.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to HD 21.7 S2:1996 on 1999-08-01.

The following dates were fixed:

- latest date by which the existence of the amendment has to be announced at national level (doa) 2000-02-01
- latest date by which the amendment has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2000-08-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-08-01

---

## iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST HD 21.7 S2:1998/A1:2000

<https://standards.iteh.ai/catalog/standards/sist/a4e881ac-d492-4011-9324-b5fce2018aef/sist-hd-21-7-s2-1998-a1-2000>



PLININGLO ADI LANCER  
CERKONKENT IN TROAWA AS CATEL PAMA  
The Bureau of Standards and Metrology  
ANAL DING!  
.....  
INDONESIA

### Sub-clause 2.5 and 3.5

Amend the first line of each sub-clause to read:

"In addition to the general requirements of Part 1, sub-clause 3.1.1, a ....."

Add an additional sentence to each sub-clause to read:

"The additional marking "V2" shall be continuous in accordance with Part 1, sub-clause 3.2"

### Tables I and III

Delete existing Tables I and III replace as attached.

### Table II and Table IV

Amend the test method reference in column 4 against "8. Test under fire conditions" from HD 405.1 to EN 50265-2-1.

### Annex A

**iTeh STANDARD PREVIEW**

(standards.iteh.ai)

Delete the reference to HD 405.1 and replace with:

"EN 50265-2-1 Common test methods for cables under fire conditions  
Test for resistance to vertical flame propagation for a  
single insulated conductor or cable  
Part 2-1: Procedures - 1 kW pre-mixed flame

Table I

General Data for Types H05V2-U, H05V2-R and H05V2-K

1 Type of cable	2 Nominal cross-sectional areas of conductor  (mm <sup>2</sup> )	3 Insulation thickness Specified value  (mm)	4 Mean overall diameter		6 Minimum insulation resistance at 90°C  (MΩ.km)
			Lower limit (mm)	Upper limit (mm)	
H05V2-U	0,5	0,6	1,9	2,3	0,014
	0,75	0,6	2,1	2,5	0,013
	1	0,6	2,2	2,7	0,011
H05V2-R	0,5	0,6	2,0	2,4	0,014
	0,75	0,6	2,2	2,6	0,012
	1	0,6	2,3	2,8	0,011
H05V2-K	0,5	0,6	2,1	2,5	0,013
	0,75	0,6	2,2	2,7	0,011
	1	0,6	2,4	2,8	0,010

Table III

General data for types H07V2-U, H07V2-R and H07V2-K

1 Type of cable	2 Nominal cross-sectional areas of conductor  (mm <sup>2</sup> )	3 Insulation thickness Specified value  (mm)	4 Mean overall diameter		6 Minimum insulation resistance at 90°C  (MΩ.m)
			Lower limit (mm)	Upper limit (mm)	
H07V2-U	1,5	0,7	2,6	3,2	0,011
	2,5	0,8	3,2	3,9	0,010
H07V2-R	1,5	0,7	2,7	3,3	0,010
	2,5	0,8	3,3	4,0	0,0099
	4	0,8	3,8	4,6	0,0082
	6	0,8	4,3	5,2	0,0070
	10	1,0	5,6	6,7	0,0067
	16	1,0	6,4	7,8	0,0056
	25	1,2	8,1	9,7	0,0053
35	1,2	9,0	10,9	0,0046	
H07V2-K	1,5	0,7	2,8	3,4	0,010
	2,5	0,8	3,4	4,1	0,0095
	4	0,8	3,9	4,8	0,0078
	6	0,8	4,4	5,3	0,0068
	10	1,0	5,7	6,8	0,0065
	16	1,0	6,7	8,1	0,0053
	25	1,2	8,4	10,2	0,0050
35	1,2	9,7	11,7	0,0043	