



SLOVENSKI STANDARD
SIST HD 22.2 S2:1998/A8:1998
01-februar-1998

**Rubber insulated cables of rated voltages up to and including 450/750 V - Part 2:
Test methods - Amendment A8**

Rubber insulated cables of rated voltages up to and including 450/750 V -- Part 2: Test methods

Gummi-isolierte Leitungen mit Nennspannungen bis 450/750 V -- Teil 2: Prüfverfahren

Conducteurs et câbles isolés au caoutchouc de tension assignée au plus égale à 450/750 V -- Partie 2: Méthodes d'essais

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Ta slovenski standard je istoveten z: HD 22.2 S2:1992/A8:1993

ICS:

29.060.20 Kabli Cables

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HARMONIZATION DOCUMENT

HD 22.2 S2/A8

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

August 1993

UDC 621.315.211.2.027.475.001.4

Descriptors: See HD 22.2 S2:1992



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

ENGLISH VERSION

SIST.....HD 22.2 S2/A8.....

PREVZET PO METODI RAZGLASITVE

Rubber insulated cables of rated voltages up to
 and including 450/750 V
 Part 2: Test methods

-02- 1998

Conducteurs et câbles isolés
 au caoutchouc, de tension
 assignée au plus égale à 450/750 V
 Deuxième partie: Méthodes
 d'essais

Isolierte Starkstromleitungen
 mit einer Isolierung aus Gummi
 mit Nennspannungen bis 450/750 V
 Teil 2: Prüfverfahren

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This amendment A8 modifies the Harmonization Document HD 22.2 S2:1992. It was approved by CENELEC on 1993-07-06. 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. <https://standards.iteh.ai/catalog/standards/sist/d513aef4-6cc5-4ade-a54f>

Up-to-date lists and bibliographical references concerning 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 and 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

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FOREWORD

Following a decision taken by CENELEC Technical Committee TC 20, Electric cables, an amendment to HD 22.2 S2:1992 was submitted to the CENELEC Unique Acceptance Procedure (UAP) in October 1992 for acceptance as an amendment to the Harmonization Document.

The text of the draft was approved by CENELEC as amendment A8 to HD 22.2 S2 on 6 July 1993.

The following dates were fixed:

- latest date of announcement
of the amendment at national level (doa) 1994-03-01
- latest date of publication of
a harmonized national standard (dop) 1994-09-01
- latest date of withdrawal of
conflicting national standards (dow) 1994-09-01

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For products which have complied with HD 22.2 S2:1992 and its amendments before 1994-09-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1995-09-01.

<https://standards.iteh.ai/catalog/standards/sist/d513aef4-6cc5-4ade-a54f-c234034fe040/sist-hd-22-2-s2-1998-a8-1998>

Delete the existing sub-clause 3.1 and insert the following:

3.1 Flexing test

3.1.1 General

The requirements are given in Part 1, sub-clause 5.6.3.1.

This test is not applicable to flexible cables with cores of nominal cross sectional area greater than 4mm^2 and also not to cables having more than 18 cores laid up in more than two concentric layers.

3.1.2 Apparatus

This test shall be carried out by means of the apparatus shown in Part 2, Figure 1. This apparatus consists of a carrier C, a driving system for the carrier and four pulleys for each sample of cable to be tested. The carrier C supports two pulleys A and B, which are of the same diameter. The two fixed pulleys, at either end of the apparatus, may be of a different diameter from pulleys A and B, but all four pulleys shall be so arranged that the sample is horizontal between them. The carrier makes cycles (forward and backward movements) over a distance of 1m at an approximately constant speed of 0.33m/s between each reversal of the direction of movement.

The pulleys shall be made of metal and have a semi-circular shaped groove for circular cables and a flat groove for flat cables. The restraining clamps D shall be fixed so that the pull is always applied by the weight from which the carrier is moving away. The distance from one restraining clamp to its support, while the other clamp is resting on its support, shall be maximum 5cm.

The driving system shall be such that the carrier turns smoothly and without jerks when it reverses from one direction to another.

3.1.3 Sample preparation

A sample of flexible cable about 5m long shall be stretched over the pulleys, as shown in Figure 1, each end being loaded with a weight. The mass of this weight and the diameter of pulleys A and B are given in Table A.

3.1.4 Current loading of cores

During the flexing test the cable sample shall be loaded with the current specified in Table B as follows:

- * 2 and 3 core cables: All cores to be loaded fully.
- * 4 and 5 core cables: Three cores to be loaded fully or all cores to be loaded according to the following formula:

$$I_n = I_3 \sqrt{\frac{3}{n}}$$

where n = number of cores
 I_3 = full current according to Table B

For the current loading either a low voltage or a voltage about 230/400V may be used. On cores which are not loaded, a signal current shall be applied. Cables having more than five cores shall not be loaded.

3.1.5 Voltage between cores

For two-core cables the voltage between the conductors shall be about 230V A.C. For all other cables having three or more cores, a three-phase A.C. voltage of about 400V shall be applied to three conductors, any additional conductors being connected to the neutral.

This also applies when a low voltage current loading system is used.

3.1.6 Fault detection (Construction of the flexing apparatus)

The flexing apparatus shall be constructed so that it will detect and stop if the following occurs during the flexing test:

- * Interruption of the current load.
- * Short circuit between the conductors.
- * Short circuit between the test sample and the pulleys (flexing apparatus).