SLOVENSKI STANDARD
SIST HD 361 S3:1999

01-november-1999

Nadomešča:
SIST HD 361 S2:1998
SIST HD 361 S2:1998/A1:1998
SIST HD 361 S2:1998/A2:1998
SIST HD 361 S2:1998/A3:1998
SIST HD 361 S2:1998/A4:1998
SIST HD 361 S2:1998/A5:1998
SIST HD 361 S2:1998/A6:1998

Sistem označevanja kablov

System for cable designation

System für Typkurzzeichen von isolierten Leitungen

Système de désignation de câbles

Ta slovenski standard je istoveten z: **HD 361 S3:1999**

ICS:

29.060.20 Kabli Cables

SIST HD 361 S3:1999 **en**

HARMONIZATION DOCUMENT

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

HD 361 S3

January 1999

ICS 28.060.20

Supersedes HD 361 S2:1986 and its amendments

Descriptors: Core, cable, code designation

English version

System for cable designation

Système de désignation de câbles

System für Typkurzzeichen von isolierten Leitungen

This Harmonization Document was approved by CENELEC on 1999-01-01.CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for implementation of this Harmonization Document 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 Harmonization Document 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

Ref. No. HD 361 S3:1999 E

FOREWORD

HD 361 was adopted by CENELEC on 18th November 1976 and a second edition was published in 1986.

This third edition implements the decision of TC 20 at its Helsinki meeting (May 1994) to restrict the rated voltage of cables covered by this HD to an upper limit of 450/750 V, and the subsequent decision at the Dublin meeting (April 1997) to cover only harmonised cables and cords or Recognised National Types as agreed and published by TC 20.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 361 S3 on 1999-01-01.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level	(doa)	1999-07-01
- latest date by which the HD has to be implemented at national level by publication of a harmonised national standard or by endorsement	(dop)	2000-01-01
- latest date by which the national standards conflicting with the HD have to be withdrawn	(dow)	2001-01-01

CONTENTS

1. Scope

This Harmonisation Document details a designation system for harmonised power cables and cords, of rated voltage up to and including 450/750V.

Only harmonised types of cable or cord (or Recognised National Types - see NOTE) are covered.

NOTE: The use of the system for Recognised National Types of cable or cord has been permitted by CENELEC/TC20 under the provision that these cables are designated with the symbol 'A' (see Table 1a).

2. Normative References

HD 361 incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this HD 361 only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

HD 22.6: Rubber insulated cables of rated voltage up to and including 450/750V - Part 6: Arc welding cables
HD 359: Flat polyvinyl chloride sheathed flexible cables
HD 383: Conductors of insulated cables (Endorsing IEC 228 and 228A)
EN 50214: Flexible cables for lifts

3. Basic elements of the designation

The cable designation shall be composed of three parts indicating the essential characteristics of a cable:

Part	Basic elements of the description	See Table(s)
1	Relationship to standards Rated voltage	1a 1b
2	Construction of the cable, generally in a radial sequence and starting with the insulating material; then, after a dash, material and form of conductor(s)	2a to 2d 2e and 2f
3	Number and size of conductors	3

Part 1 and Part 2 of the designation are generally written without a space and constitute the 'type designation' of a cable or cord.

Part 3 of the designation constitutes specific information on the number and size of conductors, when required.

A survey of symbols and their sequence in the cable designation is given in Table 4.

If two or more symbols listed in the same column of Table 4 need to be used in a given designation, they shall follow each other in their radial sequence starting from the core axis or cable axis.

4. Part 1 of the designation

Table 1a : Relationship to standards

Symbol	Relationship of cable to standards
H	Cable conforming with harmonised standards
A	Recognised National Type of cable listed in the relevant supplement to harmonised standards

Table 1b : Rated voltage

Symbol	Value, U_o/U
01	$100/100V \leq U_o/U < 300/300V$ [(1)]
03	300/300V
05	300/500V
07	450/750V

(1) At present, only cables rated 100/100V are harmonised within this range

5. Part 2 of the designation

Table 2a : Insulating and non-metallic sheathing materials

NOTE: The descriptions given for the symbols are used in certain instances to cover a group of materials which have similar performance requirements to the reference material. Full details of the specified material requirements for a given cable type will be found in the appropriate cable standard.

Symbol	Material
B	ethylene-propylene rubber for a continuous operating temperature of 90°C
G	ethylene-vinyl-acetate
J	glass-fibre braid
M	mineral
N	polychloroprene (or equivalent material)
N2	special polychloroprene compound for covering of welding cables according to HD 22.6
N4	chlorosulfonated polyethylene or chlorinated polyethylene
N8	special water resistant polychloroprene compound
Q	polyurethane
Q4	polyamide
R	ordinary ethylene propylene rubber or equivalent synthetic elastomer for a continuous operating temperature of 60°C
S	silicone rubber
T	textile braid, impregnated or not, on assembled cores
T6	textile braid, impregnated or not, on individual cores of a multi-core cable
V	ordinary PVC
V2	PVC compound for a continuous operating temperature of 90°C
V3	PVC compound for cables installed at low temperature
V4	cross-linked PVC
V5	special oil resistant PVC compound
Z	polyolefin-based cross-linked compound having low level of emission of corrosive gases and which is suitable for use in cables which, when burned, have low emission of smoke
Z1	polyolefin-based thermoplastic compound having low level of emission of corrosive gases and which is suitable for use in cables which, when burned, have low emission of smoke

Table 2b : Metallic coverings

Symbol	Sheath, concentric conductors and screens
C	concentric copper conductor
C4	copper screen as braid over the assembled cores

Table 2c : Special constructional components of a cable

NOTE: These symbols, when required, are to follow the symbols selected from any of the previous Tables 2a and 2b.

Symbol	Constructional components
D3	strain-bearing element consisting of one or more components, placed at the centre of a round cable or distributed inside a flat cable
D5	central heart (non-strain-bearing for lift cables only)

Table 2d : Special construction of cable

NOTE: These symbols, when required, are to follow the symbols selected from any of the previous Tables 2a to 2c.

Symbol	Special construction
No Symbol	circular construction of cable
H	flat construction of 'divisible' cables and cores, either sheathed or non-sheathed
H2	flat construction of 'non-divisible' cables and cords
H6	flat cable having three or more cores, according to HD 359 or EN 50214
H7	cable having a double layer insulation applied by extrusion
H8	extensible lead