



SLOVENSKI STANDARD

SIST HD 361 S2:1998

01-februar-1998

System for cable designation

System for cable designation

System für Typkurzzeichen von Kabeln und isolierten Leitungen

Système de désignation des conducteurs et câbles

Ta slovenski standard je istoveten z: **HD 361 S2:1986**

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ICS:

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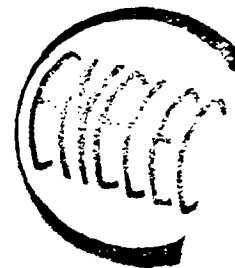
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HD 361 S2

ENGLISH VERSION



SYSTEM FOR CABLE DESIGNATION

Système de désignation des
conducteurs et câblesSystem für Typenkurzzeichen von
Kabeln und isolierten Leitungen

BODY OF THE HD

The Harmonization Document consists of:

- Text prepared by CENELEC TC 20

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This Harmonization Document was approved by CENELEC on 1986-06-26.

ALL texts prepared by CENELEC exist in three official versions (English,
French and German).
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According to the CENELEC Internal Regulations the CENELEC member National
Committees are bound :

to announce the existence of this Harmonization Document at national level

by or before 1987-01-01

to publish their new harmonized national standard

by or before 1988-01-01

to withdraw all conflicting national standards

by or before 1989-07-01

Harmonized national standards are listed on the HD information sheet,
which is available from the CENELEC National Committees from the CENELEC General
Secretariat.The CENELEC National Committees are the national electrotechnical committees
of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy,
Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United
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REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANASIST.....HD 361 S2.....-02-1998
PREVZET PO METODI RAZGLASITVE

CENELEC - EUROPEAN COMMITTEE
FOR ELECTROTECHNICAL STANDARDISATION

HD 361 S2

System for Cable Designation

Foreword

HD 361 was adopted by CENELEC on 18th November 1976.

At the TC20 meeting in Athens, March 1981, the task was given to TC20-WG3 to consider document CLC/TC20(France)38 which raised questions on problems of different cables having identical codes.

At the TC20 meeting in London, November 1981, following a discussion on a WG3 report it was agreed by TC20 that the symbol 'A' at the start of the code should only be permitted for recognised national types that TC20 had accepted.

TC20 WG3 completed their work on consideration of the problems raised by France and they prepared a draft revision of HD 361 which was agreed by TC20 at its meeting in Dublin in June 1984.



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1. Scope

This document relates to a designation system for harmonised types of insulated power cables and cords.

Note: The use of the system for national types of cable or cord has been permitted by CENELEC/TC20 under the provision that these cables are designated either with the symbol 'A' or with a symbol for the country of origin (see Table 1a).

2. Object

The object of this document is to give an abbreviated description of the cable design and its component materials.

3. Basic elements of the designation

The cable designation shall be composed of 3 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 insulation material; then after a dash, material and form of conductor(s)	2a to 2e 2f to 2g
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 supplements of harmonised standards
CC-N*	National type of cable

* Code for the country of origin according to the Cenelec Internal Regulations i.e. AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, NL, NO, PT, SE.
| Full information on the construction and requirements of national types of cable can be obtained only from the relevant national cable standards.

Table 1b : Rated Voltage

Symbol (1)	Value, U ₀ /U (2)	Notes
00	(< 100/100 V)	(1) For rated voltages of 1kV and above, the value of U in kilovolts is adopted. In case of doubt, or in all cases where $U \neq U_0 \sqrt{3}$, both voltages U_0 and U are to be indicated in kilovolts, separated by a stroke.
01	(\geq 100/100 V; < 300/300)	
03	.300/300 V	
05	300/500 V	
07	450/750 V	
1	(0.6/1 kV)	
3	(1.7/3 kV)	
6	(3.5/6 kV)	
10	(6/10kV)	

5. PART 2 OF THE DESIGNATIONTable 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.

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Symbol	Material
B	ethylene-propylene rubber
B2	ethylene-propylene rubber, hard grade
B3	butyl rubber (isobutylene-isoprene rubber)
E	polyethylene
E2	polyethylene, high density
E4	polytetrafluoroethylene
E5	perfluorinated ethylene-propylene
E6	ethylene - tetrafluoroethylene
E7	polypropylene
G	ethylene-vinyl-acetate
J	glass-fibre braid
J2	glass-fibre layer
M	mineral
N	polychloroprene (or equivalent material)
N2	special compound of polychloroprene
N4	chlorosulphonated polyethylene
N5	nitrile rubber
N6	fluorelastomer
N7	PVC nitrile
P	paper insulation, impregnated, multicore belted type
P2	as P, but specifically impregnated with non-draining compound
P3	as P, but radial field type
P4	as P2, but radial field type

Table 2a (Contd.)

Symbol	Material
Q	polyurethane
Q2	polyethylene terephthalate
Q3	polystyrene
Q4	polyamide
Q5	polyimide
Q6	polyvinylidene fluoride
R	natural rubber/or styrene-butadiene rubber
S	silicone rubber
T	textile braid, impregnated or not, on assembled cores
T2	textile braid, impregnated with flame-retardant compound
T3	textile layer (wrapping or tape), impregnated or not
T4	as T3, but impregnated with flame-retardant compound
T5	anti-corrosion protection (e.g. : anti-corrosion compound)
T6	textile braid, impregnated or not, on individual cores of a multicore cable
V	Ordinary PVC
V2	PVC compound for an operating temperature of 90 °C
V4	cross-linked PVC
V5	Special oil resistant PVC compound
X	cross-linked polyethylene

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Table 2b : Metallic coverings 361 S2:1998

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Symbol	Sheath, concentric conductors and screens
A2	aluminium sheath, extruded or welded, smooth
A3	aluminium sheath, extruded or welded, corrugated
A4	aluminium sheath on each core
A5	aluminium tape sheath
C2	copper sheath
C3	copper sheath, corrugated
F	steel sheath
F3	steel sheath, corrugated
K	zinc sheath
L	general purpose lead-alloy sheath (e.g. nominal 0.2% Sb; 0.4% Sn)
L2	unalloyed lead sheath (commercially pure lead)
L4	general purpose lead-alloy sheath on each core ..
L5	unalloyed lead sheath on each core
L6	lead-alloy sheath of composition other than above
A	concentric aluminium conductor
A6	concentric aluminium conductor, wave form
C	concentric copper conductor
C6	concentric copper conductor, wave form
C9	split concentric copper conductor

Table 2b (Contd.)

Symbol	Material
A7	aluminium screen
A8	aluminium screen on each core
C4	copper screen as braid on the assembled cores
C5	copper screen as braid on each core
C7	copper screen made of strips or tapes or wires
C8	copper screen as C7, on each core
D *	screen of thin steel tape(s) around the assembled cores, in contact with an uninsulated conductor included in the assembly

* Symbol to be added after the symbol of the insulating material.

Table 2c : Armours

Symbol	Armours	Notes (1)
Z2	round steel wire armour, galvanised or not	(2) (3)
Z3	flat steel wire armour, galvanised or not	(3)
Z4	steel tape armour, galvanised or not	
Z5	steel wire braid, galvanised or not	
Z6	strain bearing steel wire braid	
Z7	armour consisting of specially shaped steel wire	
Y2	round aluminium wire armour	(3)
Y3	flat aluminium wire armour	(3)
Y5	armour consisting of special or different materials	
Y6	armour consisting of steel wires and/or of steel tapes and copper wires	

(1) An armour consisting of two or more layers of the same element(s) shall be indicated by repeating the first symbol according to the number of layers, except in Z4 where a double layer is normal. An armour consisting of two or more layers of different elements shall be indicated by each relevant symbol in radial sequence.

(2) The same symbol is used also for an armour consisting of stranded steel wire, for flexible cables.

(3) With counter-helix, if specified.

Table 2d : Special constructional components of a cable

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

Symbol	Constructional components
D2	strain-bearing element consisting of textile or steel wires on the assembly or the sheath
D3	strain-bearing element consisting of one or more components (textile or metallic), placed at the centre of a round cable or distributed inside a flat cable
D4	self supporting cable, where the conductor combines the property of strain-bearing element
D5	central heart (non-strain-bearing)
D7	strain-bearing element as D3, but tied outside the cable
D8	as D7, but a cut through the cable, perpendicular to the axis, shows the figure "8".