



# SLOVENSKI STANDARD

## SIST HD 308 S2:2002

01-julij-2002

BUXca Yý U  
SIST HD 308 S1:1999

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### Identifikacija žil v kablilih in zvičajih vrvicah

Identification of cores in cables and flexible cords

Kennzeichnung von Adern in Kabel/Leitungen und flexiblen Leitungen

Identification des conducteurs des câbles et cordons souples  
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**Ta slovenski standard je istoveten z ~~SIST HD 308 S2:2001~~ HD 308 S2:2001**

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#### **ICS:**

|           |                               |                            |
|-----------|-------------------------------|----------------------------|
| 01.070    | Barvno kodiranje              | Colour coding              |
| 29.060.20 | Kabli                         | Cables                     |
| 91.140.50 | Sistemi za oskrbo z elektriko | Electricity supply systems |

**SIST HD 308 S2:2002**

**en**

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HARMONIZATION DOCUMENT

**HD 308 S2**

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

October 2001

ICS 29.060.20; 91.140.50

Supersedes HD 3 S2:1976 and HD 308 S1:1976

English version

**Identification of cores  
in cables and flexible cords**Identification des conducteurs des  
câbles et cordons souplesKennzeichnung von Adern in  
Kabel/Leitungen und flexiblen Leitungen

This Harmonization Document was approved by CENELEC on 2001-05-01. 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, Malta, 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 Harmonization Document was prepared by SC 64B, Protection against thermal effects, of Technical Committee CENELEC TC 64, Electrical installations of buildings.

The text of the draft was submitted to the formal vote and was approved by CENELEC as HD 308 S2 on 2001-05-01.

This Harmonization Document supersedes HD 3 S2:1976 and HD 308 S1:1976.

The following dates were fixed:

- latest date by which the existence of the HD has to be announced at national level (doa) 2001-10-01
- latest date by which the HD has to be implemented at national level by publication of a harmonized national standard or by endorsement (dop) 2002-05-01
- latest date by which the national standards conflicting with the HD have to be withdrawn (dow) 2006-04-01

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## 1 Scope

This Harmonization Document applies to the identification of cores of rigid and flexible cables and cords for which the rated voltage does not exceed the upper limit of Voltage Band II (according to HD 193).

This HD applies to:

- electrical installations,
- distribution systems,
- supplies to fixed or mobile current-using equipment and
- cords for portable equipment.

NOTE For distribution systems, the identification by numbers is permitted.

This HD is not intended to apply to:

- cables or insulated conductors used in the internal wiring of current-using equipment or factory built assemblies manufactured according to their own European Standards, or
- cables and cords used in d.c applications, or
- cables and cords having more cores than the number indicated in Tables 1 and 2, or
- circuits intended for uses other than solely the supply of power to equipment, or
- covered overhead lines and insulated overhead conductors according to HD 626.

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## 2 Normative references

This Harmonization Document incorporates by dated or undated reference, provisions from other publications. These 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 Harmonization Document only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

|          |  |
|----------|--|
| HD 193   | Voltage bands for electrical installations in buildings  |
| HD 626   | Overhead distribution cables of rated voltage $U_0/U(U_m)$ : 0,6/1(1,2) kV   |
| EN 60446 | Basic and safety principles for man-machine interface, marking and identification – Identification of conductors by colours and numerals |

### 3 Identification of cores

#### 3.1 Multi-core cables and cords

The cores of multi-core cables and cords shall be identified by the colours given in Tables 1 and 2. These tables indicate the colours of the cores, according to the number of cores, as well as, in the case of cables with four or five cores, the order of rotation of those colours. Table 1 is for cables with a green-and-yellow core and Table 2 is for cables without a green-and-yellow core.

Identification by colour is not required for concentric conductors, cores of flat flexible cables without a sheath or cables having insulation materials which cannot be identified by colour, for example mineral insulated cables.

**Table 1 – Cables and cords with a green-and-yellow core**

| Number of cores | Colours of cores <sup>b</sup> |      |       |       |      |
|-----------------|-------------------------------|------|-------|-------|------|
|                 | Protective                    | Live |       |       |      |
| 3               | Green-and-yellow              | Blue | Brown |       |      |
| 4               | Green-and-yellow              | -    | Brown | Black | Grey |
| 4 <sup>a</sup>  | Green-and-yellow              | Blue | Brown | Black |      |
| 5               | Green-and-yellow              | Blue | Brown | Black | Grey |

<sup>a</sup> For certain applications only.

<sup>b</sup> In this table an uninsulated concentric conductor, such as a metallic sheath, armour or screen wires, is not regarded as a core. A concentric conductor is identified by its position and, therefore, need not be identified by colour.

**Table 2 – Cables and cords without a green-and-yellow core**

| Number of cores | Colour of cores <sup>b</sup> |       |       |      |       |
|-----------------|------------------------------|-------|-------|------|-------|
| 2               | Blue                         | Brown |       |      |       |
| 3               | -                            | Brown | Black | Grey |       |
| 3 <sup>a</sup>  | Blue                         | Brown | Black |      |       |
| 4               | Blue                         | Brown | Black | Grey |       |
| 5               | Blue                         | Brown | Black | Grey | Black |

<sup>a</sup> For certain applications only.

<sup>b</sup> In this table an uninsulated concentric conductor, such as a metallic sheath, armour or screen wires, is not regarded as a core. A concentric conductor is identified by its position and, therefore, need not be identified by colour.

### 3.2 Single-core cables

For sheathed single-core cables and for insulated conductors the following colours shall be used for the insulation:

- the bi-colour combination green-and-yellow for the protective conductor;
- the colour blue for the neutral conductor.

It is recommended that, for the phase conductors, the colours brown, or black or grey are used. Other colours may be used for certain applications.

### 3.3 Protective conductor

Requirements for the identification of the protective conductor with the bi-colour combination green-and-yellow are set out in EN 60446.

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