

HARMONIZATION DOCUMENT

HD 516 S2/A1

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

April 2003

ICS 29.060.20

English version

Guide to use of low voltage harmonized cables

Guide d'emploi des câbles harmonisés
à basse tension

Leitfaden für die Verwendung
harmonisierter Niederspannungs-
starkstromleitungen

This amendment A1 modifies the Harmonization Document HD 516 S2:1997; it was approved by CENELEC on 2003-02-01. 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.

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This amendment exists in three official versions (English, French, German).

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CENELEC

European Committee for Electrotechnical Standardization
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Foreword

This amendment was prepared by the Technical Committee CENELEC TC 20, Electric cables, and agreed at the Paris meeting (May 2001) to go forward to the Unique Acceptance Procedure.

This amendment has been prepared within the regular maintenance programme.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to HD 516 S2:1997 on 2003-02-01.

The following dates were fixed:

- latest date by which the existence of the amendment has to be announced at national level (doa) 2003-08-01
- latest date by which the amendment has to be implemented at national level by publication of a harmonised national standard or by endorsement (dop) 2004-02-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2005-02-01

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Preview

Subclause 4.2.4

In the 2nd indent of the examples **replace** “overcurrent” by “current”.

Subclause 4.4.5

Add the following paragraph at the end of the subclause:

For the particular case of welding cables, either for industrial arc welding or for hobby welding, the use of PVC covered cables should not be permitted. Only those types harmonised in HD 22/6, which are cross-linked rubber types, are recommended. These cross-linked types meet relevant requirements relating to safety, including a special test for resistance to the hot particles that are commonly generated during welding.

Table 1B

Add a new column for HD 22.3, Clause 4, H05SS-K.

As for H05SJ-K, Clause 2.

Supplement to Table 1B

Add the following information for Part 3, Clause 4, H05SS-K

1	2	3
Part No.	Recommended use	Comments
Part 3 Clause 4 (H05SS-K) Heat resistant silicone rubber sheathed single core cables	At high temperature; for fixed installation in and on lamps in appliances, especially when the requirement is to have a cable with both insulation and sheath.	This cable may be damaged by contact with sharp edges and by abrasion. Care should be taken to avoid this in installation and in use.

Table 2A

Under the first column for HD 21.5:

- **amend** the Clause numbers to read “2”
- **delete** the sub-column for conductor type “H”

Supplement to Table 2A

Delete the entry for Part 5, Clause 3, flat non-sheathed cord, H03VH-H.

Amend the entries for HD 21.5, Clause 5 by adding in column 2 (Recommended use) the additional sentence:

“Also, excluding flat cables, for hand-held inspection lamps.”

and by **amending** the final entry in column 3 to read:

“Unsuitable for permanent outdoor use, ……….”

Amend the entries for HD 21.13 such that the clause numbers in column 1 are respectively:

“Clause 3 (not 2) for H05VV5-F, and Clause 4 (not 3) for H05VVC4V5-K”

Table 2B - Intended Usage of Rubber Flexible Cables or Cords

Delete the entries for HD 22.4, Clause 2, H03RT-F, and HD 22.14, Clause 4, H03RV4-H

Add new entries as below:

Standard	HD 22.14	HD 22.15		HD 22.16
Clause numbers	6	3	4	3/4
Designation	H03RT	H05SS(T)	H05SSD3(T)	H07RN8
Cross section shape	Circ	Circ	Circ	Circ
Conductor type	H	F	F	F
1. <u>DUTY (1)</u>				
1.1 Extra light	+	+	+	+
1.2 Light	+	+	+	+
1.3 Ordinary	+	+	+	+
1.4 Heavy	-	-	-	+
2. <u>PRESENCE OF WATER</u>				
2.1 Condition AD1 (2)	+	+	+	+
2.2 Condition AD2 (2)	+	+	+	+
2.3 Condition AD6 (2)	-	-	-	+
2.4 Condition AD8 (2) (up to 10m)	-	-	-	+
3. <u>CORROSIVE OR POLLUTING SUBSTANCES</u>				
3.1 Condition AF3 (2)	-	-	-	+
4. <u>IMPACT</u>				
4.1 Condition AG2 (2)	-	-	-	+
5. <u>VIBRATIONS</u>				
5.1 Condition AH3 (2)	-	-	-	+
6. <u>FLORA</u>				
6.1 Condition AK2 (2)	-	-	-	-
7. <u>FAUNA</u>				
7.1 Condition AL2 (2)	-	-	-	-
8. <u>OUTDOOR USE(3)</u>				
8.1 Temporary (5)	+	+	+	+
8.2 Permanent (5)	-	(8)	+	+
9. <u>FREQUENT FLEXING</u>	+	+	-	+
10. <u>FREQUENT TORSION</u>	+	+	-	+

Supplement to Table 2B

Delete the entry for Part 4, Clause 2, H03RT-F.

Amend the entries for HD 22.4, Clause 3, and HD 22.10 by adding in column 2 (Recommended use) the additional sentence:

“Also for hand-held inspection lamps.”

Amend the entry for HD 22.4, Clauses 5 and 6, by adding in column 2 (Recommended use) the additional sentences:

'Unsuitable for situations involving permanent immersion in water. Cables for such applications are specified in HD 22.16.'

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