

SLOVENSKI STANDARD
SIST HD 624.3 S1:1996/A2:1996
01-maj-1996

Materials used in communication cables - Part 3: PE solid insulation

Materials used in communication cables -- Part 3: PE insulation

Werkstoffe für Kommunikationskabel -- Teil 3: PE-Isoliermischungen

Matériaux utilisés dans les câbles de communication -- Partie 3: Polyéthylène pour enveloppes isolantes

(*iteh STANDARD PREVIEW*)

Ta slovenski standard je istoveten z: **HD 624.3 S1:1994/A2:1994**

*SIST HD 624.3 S1:1996/A2:1996
https://standards.iteh.ai/catalog/standards/sist/0fea12b0-d245-4849-aa43-
169772f7bbb/sist-hd-624-3-s1-1996-a2-1996*

ICS:

29.035.20 Plastični in gumeni izolacijski materiali Plastics and rubber insulating materials

SIST HD 624.3 S1:1996/A2:1996 en

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<https://standards.iteh.ai/catalog/standards/sist/0fea12b0-d245-4849-aa43-169772f77bbb/sist-hd-624-3-s1-1996-a2-1996>

HARMONIZATION DOCUMENT

HD 624.3 S1/A2

DOCUMENT D'HARMONISATION

HARMONISIERUNGSDOKUMENT

November 1994

UDC 621.315.3:621.315.616-036.742
 ICS 29.060.20

Descriptors: Communication cables, insulation compounds, solid polyethylene

ENGLISH VERSION

Materials used in communication cables
Part 3: PE insulation

Matériaux utilisés dans les câbles de communication
 Partie 3: Polyéthylène pour enveloppes isolantes

Werkstoffe für Kommunikationskabel
 Teil 3: PE-Isoliermischungen

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This amendment A2 modifies the Harmonization Document HD 624.3 S1:1994. It was approved by CENELEC on 1994-07-05. 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.

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

This amendment to the Harmonization Document was prepared by WG 2 of CENELEC Technical Committee TC 46X, Communication cables.

It was submitted to the Unique Acceptance Procedure (UAP) in December 1993 and was approved by CENELEC as amendment A2 to HD 624.3 S1 on 1994-07-05.

NOTE: There is no amendment A1 to HD 624.3 S1.

The following dates were fixed:

- latest date of announcement of the amendment at national level (doa) 1995-01-15
 - latest date of publication of a harmonized national standard (dop) 1995-07-15
 - latest date of withdrawal of conflicting national standards (dow) 1995-07-15
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Amendment A2 to HD 624.3 S1

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Add table 2 on PE cellular insulation.
[\(standards.iteh.ai\)](https://standards.iteh.ai/)

[SIST HD 624.3 S1:1996/A2:1996](https://standards.iteh.ai/)

<https://standards.iteh.ai/catalog/standards/sist/0fea12b0-d245-4849-aa43-169772f77bbb/sist-hd-624-3-s1-1996-a2-1996>

Table 2 : PE cellular insulation (including foam-skin)

Characteristics		Test method	Unit	Grades		
				A	B	C*
1	Maximum rated temperature of cable for which the compound can be used		° C	70	70	70
2	Density **	HD 505.1.3 § 8	g/cm ³	To be recorded	To be recorded	To be recorded
3	Melt Flow Index**	HD 505.4.1 § 10	g/10 min	To be recorded	To be recorded	To be recorded
4	Mechanical characteristics	HD 505.1.1 § 9.1				
4.1	Tensile strength - median,min.		MPa	3,5	5	8
4.2	Elongation at break - median,min.		%	125	150	300
5	Shrinkage - temperature - duration Result to be obtained, max. (standards.iteh.ai)	HD 505.1.3 § 10	° C h %	100 ± 2 1 5	100 ± 2 1 5	100 ± 2 1 5
6	Elongation at break after ageing for unfilled cables - temperature - duration Result to be obtained - median,min.	HD 505.1.2 § 8.1 https://standards.iteh.ai/catalog/standards/sist/0fea12b0-4245-4849-a243-169772f77bbb/sist-hd-624-3-s1-1996-a2-1996	° C h %	80 ± 2*** 7 x 24 125	80 ± 2*** 7 x 24 125	100 ± 2 7 x 24 200
7	Performances after pre-conditioning for filled cables - temperature - duration	HD 505.4.2 § 8.2	° C h	60/70 ± 2 7 x 24	60/70 ± 2 7 x 24	60/70 ± 2 7 x 24
7.1	Elongation at break Result to be obtained - median,min.	HD 505.4.2 § 8	%	100	100	200
7.2	Wrapping (note 1) Result to be obtained after exposure in wrapped conditions - temperature - duration	HD 505.4.2 § 9	° C h	no crack 70 ± 2 24	no crack 70 ± 2 24	no crack 70 ± 2 24

* for particular foam-skin application

** to be given by the supplier on the basic resins (cellular and skin)

*** when cellular part is based on HD resin the ageing temperature shall be 100° C

Table 2 (concluded)