



# SLOVENSKI STANDARD

## SIST HD 624.9 S1:1997

01-december-1997

---

### Materials used in communication cables - Part 9: Cross-linked PE insulation compounds

Materials used in communication cables -- Part 9: Cross-linked PE insulation compounds

Werkstoffe für Kommunikationskabel -- Teil 9: Vernetzte PE-Isolier-Mischungen

Matériaux utilisés dans les câbles de communication -- Partie 9: PE réticulé pour enveloppes isolantes

**ITeH STANDARD PREVIEW**  
**(standards.iteh.ai)**

Ta slovenski standard je istoveten z: **HD 624.9 S1:1997**

SIST HD 624.9 S1:1997  
<https://standards.iteh.ai/catalog/standards/sist/67875610-8110-40ac-a75a-01c472906d80/sist-hd-624-9-s1-1997>

---

#### **ICS:**

29.060.20	Kabli	Cables
33.120.10	Koaksialni kabli. Valovodi	Coaxial cables. Waveguides

**SIST HD 624.9 S1:1997** en

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 624.9 S1:1997

<https://standards.iteh.ai/catalog/standards/sist/b7873610-8ff6-40ac-a75a-01c472906d80/sist-hd-624-9-s1-1997>

HARMONIZATION DOCUMENT  
DOCUMENT D'HARMONISATION  
HARMONISIERUNGSDOKUMENT

**HD 624.9 S1**

January 1997

ICS 29.060.20; 33.120.10

Descriptors: Communication cables, insulation, cross-linked PE

English version

**Materials used in communication cables  
Part 9: Cross-linked PE insulation compounds**

Matériaux utilisés dans les câbles  
de communication  
Partie 9: PE réticulé pour enveloppes  
isolantes

Werkstoffe für Kommunikationskabel  
Teil 9: Vernetzte PE-Isolier-Mischungen

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 624.9 S1:1997

<https://standards.iteh.ai/catalog/standards/sist/b7879610-8ff6-40ac-a75a-01c472906d80/sist-hd-624-9-s1-1997>

This Harmonization Document was approved by CENELEC on 1996-10-01. 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, 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 Harmonization Document was prepared by SC 46XC, Multicore, Multipair and Quad Data communication cables, of Technical Committee CENELEC TC 46X, Communication cables.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as HD 624.9 S1 on 1996-10-01.

The following dates were fixed:

- latest date by which the existence of the HD  
has to be announced at national level (doa) 1997-03-01
- latest date by which the HD has to be implemented  
at national level by publication of a harmonized  
national standard or by endorsement (dop) 1997-06-01
- latest date by which the national standards conflicting  
with the HD have to be withdrawn (dow) 1997-06-01

---

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST HD 624.9 S1:1997

<https://standards.iteh.ai/catalog/standards/sist/b7873610-8ff6-40ac-a75a-01c472906d80/sist-hd-624-9-s1-1997>

## Cross-linked PE insulation compounds

Characteristics		Test method	Unit	Values
1	Maximum rated temperature at cable for which the compound can be used		°C	90
2	Mechanical characteristics	HD 505.1.1 § 9.1		
2.1	In state of delivery Tensile strength - median, min.		MPa	12,5
	Elongation at break - median, min.		%	250
2.2	After ageing in air oven	HD 505.1.2 § 8.1		
	Ageing conditions - temperature - duration		°C h	135 ± 3 10 x 24
	Tensile strength - variation, max.		%	± 25
	Elongation at break - variation, max.		%	± 25
3	Wrapping after ageing (Note 1)	HD 505.4.2 § 10		
	Ageing conditions - temperature - duration		°C h	150 ± 3 7 x 24
	Result to be obtained			No crack
4	Hot set	HD 505.2.1 § 9		
	Test conditions - temperature - time under load - mechanical stress		°C min N/mm <sup>2</sup>	200 ± 3 15 0,2
	Result to be obtained - elongation under load, max. - elongation after cooling		% %	175 15
5	Shrinkage	HD 505.1.3 § 11		
	Test conditions - temperature - duration		°C h	130 1
	Result to be obtained - shrinkage, max.		%	4

Note 1 Only to be carried out if elongation at break cannot be done.