

SLOVENSKI STANDARD SIST EN 1261:1999

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Vlaknene vrvi za vsakovrstno uporabo - Konoplja

Fibre ropes for general service - Hemp

Faserseile für allgemeine Verwendung - Hanf

Cordages en fibres pour usages divers - Chanvre PREVIEW

Ta slovenski standard je istoveten z: EN 1261:1995

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ICS:

59.080.50 Vrvi Ropes

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Fibre ropes for general service - Hemp

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

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Foreword

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This European Standard has been prepared by the Fechnical Committee CEN/TC 248 "Textiles and textile products", http://whichlthe.secretariatlis/held/by/BSic92-4c29-ad16-ba0631fd7065/sist-en-1261-1999

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies requirements for 3-, 4- and 9-strand laid ropes and plaited ropes made of hemp for general purposes.

2 Normative references

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

EN 701: 1995 Fibre ropes for general service - General specification

EN 919

Fibre ropes for general service - Determination of certain physical and mechanical

properties

ISO 1968

Ropes and cordage - Vocabulary

3 Definitions

For the purposes of this standard, the definitions of ISO 1968 and the following definitions apply:

- 3.1 Plaited rope: Plait made of plaited sections with or without core.
- 3.2 Plait: Rope plaited in one direction (spiral plait) or in the opposite direction (cross plait).
- 3.3 Plaited section: Element at the circumference of plaited ropes consisting of yarns or strands.
- 3.4 Number of plaited sections: Number of plaited sections at the circumference of plaited ropes.
- 3.5 Core: Bundle of rope yarns in the middle of the rope.
- 3.6 Preserving agent: Substance to improve the resistance of the cordage to rotting.

4 Construction

Hemp ropes produced in accordance with this European Standard shall be constructed in compliance with one of the following types (see also figures 1 and 2):

- type A: 3-strand hawser-laid rope;
- type B: 4-strand shroud-laid rope (for ropes with a nominal diameter ≥ 16 mm with core);
- type C: 9-strand cable-laid rope;
- type E: round-plaited fibre rope; with core for ropes with a number of plaited sections $T \ge 10$.

5 Structure and properties

5.1 Rope geometry, dimensions and load factors

Hemp ropes shall conform to the values given in tables 1 to 5 of this standard and the values given in EN 701.

5.2 Manufacture

5.2.1 General

The manufacture of ropes conforming to this standard shall be carried out in the natural state of the yarns, strands and cores.

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Other requirements concerning structure and manufacture shall be in accordance with EN 701.

NOTE: Strands may be polished (smoothed) to improve the characteristics of the rope.

5.2.2 Spiral ropes

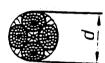
type A hawser-laid 3-strand

type B shroud-laid 4-strand

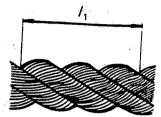
type C cable-laid (9-strand) 3 layers of strands

lay /1, type A in accordance with table 4









NOTE: A core is necessary for ropes with d ≥ 16 mm for type 8/IEW

Terigure 1: Examples of laid ropes (types A.B.C)

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Table 1: Dimensions and minimum breaking force of rope types A, B and C

Nominal rope diameter Linear density under tensile Minimum breaking force									
Noniii	d mm	merei	Linear density under tensile loading ¹⁾ nominal value ktex ³⁾			Minimum breaking force daN			
	type		type			type			
Α .	В	С	A and B	C .	tolerance on A,B,C	A	В	С	
4 6	-		12 27			130 285	_		
8	3		47		±10%	500	450]	
1 1	10 12 14		74 111 141			780 1165 1485	700 1080 1375		
1 1 2	8	iTe	1 185 A 230 285ta	NDAI ndard	KD PR s.iteh.a	960 2420 3000	1825 2250 2780	<u>-</u>	
24	22 24 26		345 410 485	SIST EN 12	<u>261:1999</u> rds/sist/36fddff	3600 4270 4950	3240 3980 4600		
21	8	https://stan	560 _{a06}	_	-en-1261-199	5820	5410		
	30 32		640 735	610 700		6680 7620	6180 7090	3840 4390	
	36 40 44		930 1150 1380	880 1090 1310	± 5%	9200 10700 12700	8560 9980 11800	5300 6180 7330	
	48 52 56		1660 1920 2240	1560 1820 2120		15200 17800 20500	14100 16700 19100	8740 10200 11800	
	60 64 72		2520 2920 3690	2390 2770 3500	·	22600 26000 32400	21000 24200 30100	12700 14900 18600	
	80 88 96		4570 5500 6550	4340 5220 6220		39700 47100 54800	36900 43700 51000	22800 27000 31500	

¹⁾ For tensile loading see EN 919.

The nominal rope diameter is the reference number of the rope. Measurement of rope diameter shall be according to EN 919.

The linear density (in kilotex) refers to the net mass (in grams per metre) or the mass of the fibre ropes (in kilograms per kilometre)

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5.2.3 Round-plaited fibre ropes (type E)

type E

round-plaited fibre



Length of pitch I_2 in accordance with table 4

Figure 2: Round-plaited fibre rope (type E)

Table 2: Dimensions and minimum breaking force of rope type E

Nominal rope diameter d^{-2})	Linear density und	er tensile loading 1)	Minimum	
a -) mm	ktex ³)	tolerance	breaking force daN	
3	4,8		41	
4	8,3		75	
6	Teh \$872 AND	ARD PREVIEW	165	
8	32 Cstanda	rds.iteh.ai)	305	
10	49	i us.item.ar)	445	
12		N 1261:1999	640	
14 http	95	nndards/sist/36fddff7-6c92-4c2 9-ad1 5/sist-en-1261-1999	860	
16	115		1100	
18	145	± 5%	1400	

¹⁾ For tensile loading see EN 919.

Table 3: Plait pitch and rope cores

		*		Nu	mber of	plait pitc	h <i>T</i>		-	e.	
6	8	10	12	16	18	20	24	32	36	40	48
withou	t core			(not for	ropes w	with vith a noi	core minal dia	meter of	3 mm)	• · · · · · · · · · · · · · · · · · · ·	

5.3 Mode of delivery

Packing, length of delivery, labelling and invoicing shall be in accordance with EN 701 and ropes shall be designed and marked in accordance with clauses 8 and 9.

Preserving agents, if used, shall be indicated on the package.

The nominal rope diameter is the reference number of the rope. Measurement of rope diameter shall be in accordance with to EN 919.

The linear density (in kilotex) refers to the net mass (in grams per metre) or the mass of the fibre ropes (in kilograms per kilometre)

6 Materials

Long fibre yarns used for hemp cordage shall exclusively consist of new hemp (Cannabis sativa L) with an approximate density of $1,35 \text{ kg/dm}^3$.

When processing the fibres to produce rope yarns the admixture of other natural fibres may be present.

Table 4: Rope geometry

Type A 3-strand	Type B 4-strand with core	Type C 3 layers of strands (9 strands)	Type E round-plaited fibre with core				
Hawser-laid	Shroud-laid	Cable-laid	Round-plaited				
. Z	Z	S	-				
/ ₁ max	c. 3,5 d ; up to $d = 9$	6 mm	- .				
	-		l_2 max. 3,7 d ; $d \ge 4$ mm				
Fibre in accorda			nce with 4.2 of				
Each strand shall consist of the same number of yarns							
https://standards.iteh b			Bundle of yarns twisted or plaited into a strand. The mass percentage of the core is not specified.				
	3-strand Hawser-laid Z /1 max Fibre in accorda	Type A 3-strand 4-strand with core Hawser-laid Shroud-laid Z Z In max. 3,5 d; up to d = 9 Fibre in accordance with clause 6, re EN 701: Each strand shall consist of Either as a strand 19 or a laid or round-ist plaited fibre rope 1 of appropriate	A-strand with core 3 layers of strands (9 strands) Hawser-laid Shroud-laid Cable-laid Z Z S /1 max. 3,5 d; up to d = 96 mm Fibre in accordance with clause 6, rope twist in accordance EN 701: 1995 Each strand shall consist of the same number of plaited fibre rope 1 of appropriate				

7 Testing

Sampling and testing of hemp fibre ropes shall be in accordance with EN 919.

8 Designation

The designation of a rope in accordance with this standard shall be given in the following form: