



**SLOVENSKI STANDARD**  
**SIST EN 696:1999**  
**01-marec-1999**

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**Vlaknene vrvi za vsakovrstno uporabo - Poliamid**

Fibre ropes for general service - Polyamide

Faserseile für allgemeine Verwendung - Polyamid

Cordages en fibres pour usages divers - Polyamide

**Ta slovenski standard je istoveten z: EN 696:1995**

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**ICS:**

59.080.50      Vrvi      Ropes

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EUROPEAN STANDARD

EN 696

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Descriptors: textiles, cordages, polyamide, designation, specifications, linear density, breaking load, marking

English version

## Fibre ropes for general service - Polyamide

Cordages en fibres pour usages divers - Polyamide Faserseile für allgemeine Verwendung - Polyamid

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**CEN**European Committee for Standardization  
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## Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 248 "Textiles and textile products", of which the secretariat is held by BSI.

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of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.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.

This standard is based on ISO "Ropes - Polyamide - Specification".

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## 1 Scope

This European standard specifies requirements for 3-strand hawser-laid and 4-strand shroud laid ropes and 8-strand plaited ropes for general service made of polyamide and gives rules for their designation.

## 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

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Fibre ropes for general service - General specification  
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EN 919

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

ISO 1968

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Ropes and cordage - Vocabulary

## 3 Definitions

For the purposes of this standard, the definitions given in ISO 1968 apply.

## 4 Designation

Fibre ropes shall be designated by

- the words "fibre rope";
- the number of this European standard;
- the construction or type of rope (see clause 5);
- the reference number of the rope;
- the material from which the rope is made.

NOTE: The material from which the rope is made may be indicated either by its full name "polyamide", or by means of its abbreviation "PA".

**EXAMPLE:**

Designation of a 3-strand hawser-laid rope, reference number 20(A) corresponding to a linear density of 245 ktex made of polyamide:

Fibre rope EN 696 - A - 20 - polyamide

## 5 Construction

Polyamide ropes produced to this European standard shall be made in one of the following constructions :

- type A: 3-strand hawser-laid rope (see figure 1);
- type B: 4-strand shroud-laid rope (see figure 2);
- type L: 8-strand plaited rope (see figure 3).

Linear density and minimum breaking force shall conform to tables 1, 2 and 3 (see also tables 1 and 2 of EN 701: 1995).

Construction, manufacture, lay, labelling, packaging, invoicing and delivery lengths shall conform to EN 701.

## 6 Marking

The marking shall be carried out in accordance with clause 7 of EN 701: 1995.

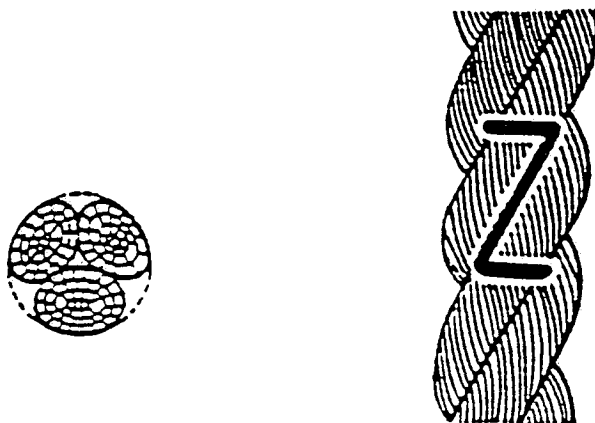


Figure 1 : Shape of a 3-strand hawser-laid rope (type A)

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Table 1 : 3-strand hawser-laid polyamide ropes (type A)

Reference number <sup>1)</sup>	Linear density <sup>2)</sup>		Minimum breaking force <sup>4)</sup> daN
	nominal ktex	tolerance	
4	10.5	± 10 %	315
6	22.5		735
8	40		1320
10	62	± 8 %	2040
12	89		2940
14	122		4020
16	158		5200
18	200	± 5 %	6570
20	245		8140
22	300		9800
24	355		11800
26	420		13700
28	485		15500
30	555		17400
32	630		19600
36	800		24400
40	990		29400
44	1200		35100
48	1420		41200
52	1660		47900
56	1930		54900
60	2210		62600
64	2520		70600
72	3190		88200
80	3940	108000	
88	4770	128000	
96	5680	151000	

<sup>1)</sup> The reference number corresponds to the approximate diameter in millimetres.

<sup>2)</sup> The linear density (in kilotex) corresponds to the net mass per length (in grams per metre) or to the mass of rope per length (in kilograms per thousand metres).

<sup>3)</sup> The linear density is measured under tensile loading for measurement  $F_c$  as given in EN 919.

<sup>4)</sup> The breaking forces quoted above relate to new dry ropes. In wet conditions, these values may be lowered.