INTERNATIONAL STANDARD



Second edition 1990-11-01

Ropes — Polyethylene — Specification

Cordages – Polyéthylène – Spécifications iTeh STANDARD PREVIEW (standards.iteh.ai)



Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

International Standard ISO 1969 was prepared by Technical Committee ISO/TC 38, *Textiles*.

This second edition cancels and replaces <u>ISthe969first0</u> edition (ISO 1969:1976), of which it constitutes a technical revisionds/sist/b22e9597-f2ad-4f69-b946d9a784774af7/iso-1969-1990

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International Organization for Standardization

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Ropes — Polyethylene — Specification

1 Scope

This International Standard specifies the main characteristics of 3- and 4-strand laid ropes made of polyethylene and gives rules for their designation.

- the reference number of this International Standard;
- the type of rope (type A or B);
- its reference number;
- its nature.

2 Normative references eh STANDARDExample of designation:

The following standards contain provisions which **C** Ad strand polyethylene monofilament rope of referthrough reference in this text, constitute provisions ence number 40 (linear mass 785 ktex) is designated of this International Standard. At the time of publication, the editions indicated were valid. All stan-969:1990 dards are subject to htevision and a parties/statolards/sist/b2Rope7-ISO 1969, btype B, 40, polyethylene agreements based on this International 9Standard//iso-1969-1990

are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1968:1973, Ropes and cordage --- Vocabulary.

ISO 2307:1990, Ropes — Determination of certain physical and mechanical properties.

ISO 9554:1990¹⁾, Fibre ropes – General specification.

3 Definitions

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

4 Designation

A rope shall be designated by

- the word "rope";
- 1) To be published.

5 Types

Polyethylene ropes are classified in two types:

Type A: 3-strand hawser-laid rope;

Type B: 4-strand shroud-laid rope.

6 Characteristics

6.1 Main characteristics

The main characteristics shall be as given in table 1 (see also ISO 9554, clause 7).

6.2 Other characteristics

Other characteristics, concerning construction, manufacture, lay, labelling, packaging, invoicing and delivery lengths, shall comply with ISO 9554.





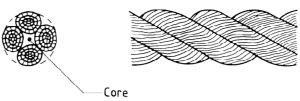


Figure 1 — Shape of a 3-strand hawser-laid rope (type A)

Figure 2 — Shape of a 4-strand shroud-laid rope (type B)

Ropes			Linear density ^{2) 3)}		Minimum breaking
Туре А	Type B	Reference number ¹⁾	nominal ktex	tolerance	force daN
		A	0.4		400
3-Strand		4 6 8	8,1	± 10 %	196
			18,2		392
			32,7		686
	4-Strand	10	49		1 070
		12	72	<u>+</u> 8 %	1 510
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		30	460		9 300
		32	525		10 500
		36	660		13 200
		40	785	± 5 %	16 000
		44	950		19250
		48	1 150		22 400
		52	1 350		25 900
		56	1 570		29 800
		60	1 800		33 800
		64	2 0 5 0		38 300
		72	2 590		48 100
		80	3210		59 200
		88	3880		71 100
		96	4610		83 800

Table 1 — Main characteristics of 3- and 4-strand polyethylene ropes

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

3) The linear density (net mass per metre) is measured under tensile loading for measurement " F_c " as given in ISO 2307.

7 Marking

The identification of the material, quality and origin of a polyethylene rope conforming to this International Standard shall be marked using a yarn or tape yarn of an easily identifiable orange colour placed within the article (see 7.1 and 7.2), so as to remain recognizable despite soiling, soaking and discoloration during use.

7.1 Ropes of reference number <12

An orange yarn or tape yarn shall be incorporated into a strand.

7.2 Ropes of reference number ≥12

An orange tape yarn at least 3 mm wide printed with the reference number of this International Standard and a reference identifying the manufacturer shall be incorporated into a strand.

The maximum distance between two consecutive markings shall be 1 m.

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<u>ISO 1969:1990</u> https://standards.iteh.ai/catalog/standards/sist/b22e9597-f2ad-4f69-b946d9a784774af7/iso-1969-1990

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