



SLOVENSKI STANDARD SIST EN ISO 9554:2011

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Nadomešča:
SIST EN ISO 9554:2005

Vlaknene vrvi - Splošne zahteve (ISO 9554:2010)

Fibre ropes - General specifications (ISO 9554:2010)

Faserseile - Allgemeine Festlegungen (ISO 9554:2010)

Cordages en fibres - Spécifications générales (ISO 9554:2010)

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ICS:

59.080.50 Vrvi Ropes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 9554

August 2010

ICS 59.080.50

Supersedes EN ISO 9554:2005

English Version

Fibre ropes - General specifications (ISO 9554:2010)

Cordages en fibres - Spécifications générales (ISO 9554:2010)

Faserseile - Allgemeine Festlegungen (ISO 9554:2010)

This European Standard was approved by CEN on 14 August 2010.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN ISO 9554:2010) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which 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of an identical text or by endorsement, at the latest by February 2011, and conflicting national standards shall be withdrawn at the latest by February 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 9554:2010 has been approved by CEN as a EN ISO 9554:2010 without any modification.

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INTERNATIONAL STANDARD

**ISO
9554**

Third edition
2010-08-15

Fibre ropes — General specifications

Cordages en fibres — Spécifications générales

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 9554 was prepared by Technical Committee ISO/TC 38, *Textiles*.

This third edition cancels and replaces the second edition (ISO 9554:2005), which has been technically revised.

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Fibre ropes — General specifications

1 Scope

This International Standard specifies the general characteristics of fibre ropes and their constituent materials. It is intended to be used in conjunction with the standards for the individual types of fibre rope, which cover the physical properties and specific requirements for that particular product type.

This International Standard also gives some information on the use of fibre ropes and also on their inspection and retirement criteria.

This International Standard does not intend to address all of the safety matters associated with its use. It is the responsibility of the user to select a rope type of the size and with the physical properties to meet the requirements of the application and to determine the applicability of regulatory limitations prior to its use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- [SIST EN ISO 9554:2011](https://standards.iteh.ai/catalog/standards/sist/en-iso-9554-2011)
<https://standards.iteh.ai/catalog/standards/sist/en-iso-9554-2011>
 ISO 1140, *Fibre ropes — Polyamide — 3-, 4- and 8-strand ropes*
 ISO 1141, *Fibre ropes — Polyester — 3-, 4- and 8-strand ropes*
 ISO 1968, *Fibre ropes and cordage — Vocabulary*
 ISO 2307, *Fibre ropes — Determination of certain physical and mechanical properties*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 1968 apply.

4 Manufacture

4.1 Constituent materials

The following materials are considered in this International Standard:

- a) natural fibres:
 - sisal;
 - manila;
 - hemp;

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b) man-made fibres:

- polyamide;
- polyester;
- polypropylene;
- polyethylene;
- mixed polyolefin;
- polyester/polyolefin dual fibres;
- high modulus polyethylene.

Typical characteristics for these materials are given in Annex A. Specific applications should involve technical discussions with rope manufacturers.

4.2 Construction and structure

Unless otherwise specified, 3-, 4- and 6-strand laid ropes shall be Z-twist (right-hand lay), their strands S-twist and their roping yarns Z-twist.

The 8-strand braided ropes shall consist of four S-twist strands and four Z-twist strands arranged so that S-twist strands alternate (individually or in pairs) with Z-twist strands (individually or in pairs).

The 12-strand braided ropes shall consist of six S-twist strands and six Z-twist strands arranged so that S-twist strands alternate (individually or in pairs) with Z-twist strands (individually or in pairs).

A double-braided rope shall consist of a number of strands that are braided to form a core, around which additional strands are braided to form a sheath. The core lies coaxially within the sheath. The number of strands varies, based upon the size of the rope.

A parallel rope construction consists of a number of sub-ropes protected by a non-load-bearing cover.

Each strand shall consist of an equal number of rope yarns sufficient to provide the characteristics specified in the International Standard for the relevant product. For ropes of reference number 36 or higher, the number of yarns in each strand may differ by one yarn or $\pm 2,5$ % from the intended number of yarns in the strand.

The ropes and their strands shall be continuous, without splice for standard delivered lengths or shorter lengths.

Yarns may be joined as necessary.

The strands can be assembled yarns as well.

NOTE National legislations can place additional requirements concerning rope construction.

4.3 Treatment

4.3.1 Polyamide and polyester ropes

4.3.1.1 Polyamide and polyester laid ropes that are required to have a heat setting on the rope to ensure lay and dimensional stability are designated as type 1 ropes in ISO 1140 and ISO 1141.

4.3.1.2 In other cases, polyamide and polyester laid ropes that are not required to have a heat setting on the rope are designated as type 2 ropes in ISO 1140 and ISO 1141.