
**Fibre ropes — High modulus
polyethylene — 8-strand braided
ropes, 12-strand braided ropes and
covered ropes**

*Cordages en fibres — Polyéthylène à haut module — Cordages tressés
à 8 torons, cordages tressés à 12 torons et cordages avec couverture*





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Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Designation fibre ropes	1
5 Material	2
6 General requirements	2
6.1 General	2
6.2 Construction, manufacture and lay length or braid pitch	3
6.3 Labelling, packaging, invoicing and delivered lengths	3
7 Physical properties	3
8 Marking	3

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

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

This second edition cancels and replaces the first edition (ISO 10325:2009), which has been technically revised. The main changes compared to the previous edition are as follows:

- Scope: a statement indicating that other commonly used types and grades of HMPE may be out of the coverage of this document has been added;
- Clause 3: the term “heat-set ropes” has been added;
- Table 1: the linear density and minimum breaking strength values has been modified.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Fibre ropes — High modulus polyethylene — 8-strand braided ropes, 12-strand braided ropes and covered ropes

1 Scope

This document specifies requirements for 8-strand braided ropes, for 12-strand braided ropes, and for covered rope constructions for general purpose made of high modulus polyethylene (HMPE), and gives rules for their designation.

Many different types and grades of HMPE fibre exist which are commonly used to produce rope products. This document does not cover all variations in strength or product performance. The rope manufacturer is consulted to ensure the intended design meets the requirements of the application.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 1968, *Fibre ropes and cordage — Vocabulary*

ISO 2307, *Fibre ropes — Determination of certain physical and mechanical properties*

ISO 9554:2010, *Fibre ropes — General specifications*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

cover jacket

braided cover or other protective layer, which is placed over the rope core

Note 1 to entry: The cover has no significant contribution to the rope strength.

3.2

heat-set rope

rope with properties that have been modified by applying heat simultaneously with the addition of a controlled strained force

4 Designation fibre ropes

Fibre ropes shall be designated by the following:

- the words “fibre rope”;
- the number of this document, i.e. ISO 10325;