

This is a preview of "ISO 9554:2019". [Click here to purchase the full version from the ANSI store.](#)

Fourth edition
2019-07

Fibre ropes — General specifications

Cordages en fibres — Spécifications générales



Reference number
ISO 9554:2019(E)

© ISO 2019

This is a preview of "ISO 9554:2019". Click here to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

This is a preview of "ISO 9554:2019". Click here to purchase the full version from the ANSI store.

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Manufacture	2
4.1 Constituent materials.....	2
4.2 Construction and structure.....	2
4.2.1 Laid ropes.....	2
4.2.2 Braided ropes.....	2
4.2.3 Double-braided ropes.....	2
4.2.4 Covered ropes.....	3
4.2.5 Strands.....	3
4.2.6 Lay length or braid pitch.....	3
4.3 Treatment.....	3
4.3.1 Polyamide and polyester ropes.....	3
4.3.2 Polypropylene and polyethylene ropes.....	3
4.3.3 High modulus polyethylene ropes.....	4
4.3.4 Manila and sisal.....	4
4.4 Workmanship.....	4
5 Rope design	5
6 Requirements	5
7 Marking and labelling	6
7.1 Marking.....	6
7.1.1 General.....	6
7.1.2 Ropes of reference number less than 14.....	6
7.1.3 Ropes of reference number equal to or greater than 14.....	6
7.2 Labelling.....	6
8 Packaging, invoicing and delivered length	6
8.1 Packaging and invoicing.....	6
8.2 Delivered length.....	7
8.2.1 Standard delivered length.....	7
8.2.2 Shorter delivered length due to sampling.....	7
9 Testing	7
10 Visual quality control	7
10.1 Responsibility for inspection.....	7
10.2 Finished-rope visual control.....	8
11 Manufacturer declaration	8
12 Instructions for use	8
Annex A (informative) Typical characteristics of the yarns for man-made and natural fibres used in ropes, slings and netting	9
Annex B (informative) Information on defects and variances	14
Annex C (informative) Information for use and maintenance to be provided by the manufacturer	16
Annex D (informative) Determining minimum breaking strength	28
Bibliography	38

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.

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).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of 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 www.iso.org/iso/foreword.html.

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

This fourth edition cancels and replaces the third edition (ISO 9554:2010), which has been technically revised. The main changes compared to the previous edition are as follows:

- methodology for rope design and strength realization factor has been introduced;
- strand interchanges have been introduced;
- [Table A.1](#) has been updated;
- [Annex C](#) has been updated.

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.