

Australian Standard[®]

Fibre ropes

**Part 2: Three-strand hawser-laid
and eight-strand plaited**

This Australian Standard was prepared by Committee TX/4, Ropes and Cordage. It was approved on behalf of the Council of Standards Australia on 9 August 1993 and published on 22 November 1993.

The following interests are represented on Committee TX/4:

Australian Chamber of Commerce and Industry
Australian Chamber of Manufactures
Australian Lightweight Vertical Rescue Instructors
Australian Maritime Safety Authority
Department of Defence
Emergency Management Australia
New South Wales Fire Brigades
Police Department, N.S.W.
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PREFACE

This Standard was prepared by the Standards Australia Committee on Ropes and Cordage to supersede AS 1504—1983, *Fibre rope—Three-strand, hawser-laid* and AS 1752—1983, *Fibre rope—Eight-strand plaited*.

For fibre types for which an ISO Standard exists, the technical content of this Standard is equivalent. In addition, this Standard covers vinylal ropes, requires the diameter of three-strand hawser-laid rope to be within certain tolerances of the nominal figures and requires ropes of natural fibre to contain fungicide.

In the preparation of this Standard cognizance has been taken of the following Standards:

AS

1380 *Fibre-rope slings (of natural or synthetic rope)*

ISO

1140 *Ropes—Polyamide—Specification*

1141 *Ropes—Polyester—Specification*

1181 *Ropes—Manila and sisal—Specification*

1346 *Ropes—Polypropylene—Specification*

1969 *Ropes—Polyethylene—Specification*

2307 *Ropes—Determination of certain physical and mechanical properties*

9554 *Fibre ropes—General specification*

BS

4128 *Recommendation for the selection, use and care of man-made fibre ropes in marine applications* (now withdrawn)

This Standard is part of a series on fibre ropes. Others in the series include—

- (a) AS 4142.1, *Fibre ropes, Part 1: Care and safe usage*;
- (b) AS 4142.3, *Fibre ropes, Part 3: Man-made fibre rope for static life rescue lines*; and
- (c) AS 4143, *Methods of test for fibre ropes*.

The term ‘informative’ has been used in this Standard to define the application of the appendices. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard**Fibre ropes****Part 2: Three-strand hawser-laid and eight-strand plaited**

1 SCOPE This Standard specifies manufacturing and performance requirements for three-strand hawser-laid and eight-strand plaited rope made from natural or man-made textile staple fibre, monofilament or multifilament yarn. Ropes made from the various natural and man-made textiles listed in Clause 6 are covered by this Standard.

NOTES:

- 1 Some hard-laid rope or rope manufactured for special requirements may not be able to meet all the requirements in this Standard.
- 2 Advisory information on alternative methods of determining compliance of a lot with this Standard is given in Appendix A.
- 3 Equivalent deadweight breaking loads are given in Appendix B.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

- | | |
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| 1157 | Methods of testing materials for resistance to fungal growth |
| 1157.3 | Part 3: Resistance of cordage and yarns to fungal growth |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1380 | Fibre rope slings (of natural or synthetic rope) |
| 1399 | Guidance to AS 1199—Sampling procedures and tables for inspection by attributes |
| 2450 | Textiles—Natural and man-made fibres—Generic names |
| 3900 | Quality management and quality assurance standards |
| 3900.1 | Part 1: Guidelines for selection and use |
| 3904 | Quality management and quality system elements |
| 3904.1 | Part 1: Guidelines |
| 4142 | Fibre ropes |
| 4142.1 | Part 1: Care and safe usage |
| 4143 | Methods of test for fibre ropes |
| 4143.1 | Method 1: Dimensions, linear density, breaking force and elongation |

SAA

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| HB18 | Guidelines for third-party certification and accreditation |
| HB18.44 | Guide 44—General rules for ISO or IEC international third-party certification schemes for products |

ISO

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|------|-----------------------------------|
| 9554 | Fibre ropes—General specification |
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