

Australian Standard<sup>®</sup>

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**STEEL WIRE ROPE—  
APPLICATION GUIDE**

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This Australian standard was prepared by Committee ME/25, Lifting Tackle. It was approved on behalf of the Standards Association of Australia on 4 October 1984 and published on 10 May 1985.

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The following interests are represented on Committee ME/25:

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## PREFACE

This standard was prepared by the Association's Committee on Lifting Tackle. It supersedes AS MB1-1968, SAA Steel Wire Rope Manual.

This standard includes the following changes from AS MB1-1968:

- (a) Major changes of an editorial nature have been made in accordance with current SAA editorial policy.
- (b) Dimensions are metricated.
- (c) Correct methods of recoiling a rope are illustrated.
- (d) Resin socketing is introduced.
- (e) The specifications for metallised sockets have been replaced by references to suitable standards.
- (f) The specifications for socketing metal have been simplified and made less specific.
- (g) Le Blanc splicing is referred to.
- (h) The description in the figures covering long splicing has been simplified.
- (j) The specification for thimbles has been deleted because suitable standards for thimbles now exist.
- (k) Additional illustrations of damaged ropes are included.

A series of standards for components which are used in lifting systems are as follows:

- AS 1138 Thimbles for Use with Wire Rope or Fibre (Natural or Synthetic) Rope
- AS 1353 Synthetic-webbing Flat Slings
- AS 1380 Fibre-rope Slings (of Natural or Synthetic Rope)
- AS 1426 Steel Wire Ropes for Winding and Haulage Purposes in Mines
- AS 1438 Wire-coil Flat Slings
- AS 1504 Fibre Rope—Three-strand, Hawser Laid
- AS 1656 Steel Wire Ropes (Other Than for Mining Purposes)
- AS 1666 Wire-rope Slings
- AS 1752 Fibre Rope—Eight-strand Plaited
- AS 2076 Wire Rope Grips
- AS 2089 Sheave Blocks (Including Ships' Cargo Blocks) of Maximum Lift 60 t
- AS 2317 Collared Eyebolts
- AS 2318 Swivels
- AS 2319 Rigging Screws and Turnbuckles
- AS 2321 Short-link Chain for Lifting Purposes (Non-calibrated)
- AS 2740 Wedge-type Sockets
- AS 2741 Shackles
- AS B291 Lifting Rings and Links

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STANDARDS ASSOCIATION OF AUSTRALIA

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**Australian Standard**  
**for**  
**STEEL WIRE ROPE—APPLICATION GUIDE**

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SECTION 1. SCOPE AND GENERAL

**1.1 SCOPE.** This standard describes recommended procedures for the selection, storage, handling, maintenance, use, inspection, and discard of helically laid steel wire ropes.

**1.2 APPLICATION.** This standard provides a guide to recommended and established Australian practices for people who work with, handle, and maintain steel wire ropes.

**1.3 REFERENCED DOCUMENTS.** The following standards are referred to in this standard:

AS 1138 Thimbles for Use with Wire Rope or Fibre (Natural or Synthetic) Rope

AS 1418 SAA Crane Code  
Part 1—General Requirements

AS 1656 Steel Wire Ropes (Other than for Mining Purposes)

AS 1666 Wire-rope Slings

AS 1735 SAA Lift Code  
Part 2—Electric Lifts: Passenger and Goods  
Part 4—Power-operated Service Lifts

AS 2076 Wire Rope Grips

AS 2740 Wedge-type Sockets

BS 463 Sockets for Wire Ropes

**1.4 DEFINITIONS.** For the purpose of this standard, the definitions given in Appendix A apply.