

Australian Standard™

**Steel wire rope—Use, operation and
maintenance**

This Australian Standard was prepared by Committee ME-025, Lifting Tackle. It was approved on behalf of the Council of Standards Australia on 14 May 2004. This Standard was published on 7 September 2004.

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**Steel wire rope—Use, operation and
maintenance**

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-025, Lifting Tackle, to supersede AS 2759—1985.

The objective of this Standard is to promote the use of procedures that will improve safety while selecting, storing, handling, maintaining, using, inspecting and discarding steel wire ropes.

This Standard includes the following changes from the superseded edition:

- (a) The inclusion of Clause 1.3, Innovations.
- (b) The inclusion of recently introduced rope constructions and deletion of those not in common use.
- (c) Drawings illustrating withdrawing a rope from a reel have been improved.
- (d) An acknowledgment that mechanical splicing has largely replaced hand splicing.
- (e) A major revision of Section 6, Poured sockets, including specific instructions for both molten metal and resin socketing.
- (f) Deletion of instructions for hand splicing of rotation-resistant ropes.
- (g) A substantial updating of the whole Standard, to bring it up-to-date with current practices.
- (h) The addition of new appendix covering aluminium alloy ferrules.

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Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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STANDARDS AUSTRALIA

Australian Standard**Steel wire rope—Use, operation and maintenance**

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 practices for people who work with, handle, and maintain steel wire ropes.

1.3 INNOVATIONS

It is not intended that this Standard precludes the use of materials, designs, methods of manufacture or assembly, and the like, that vary from its specific requirements, or are not mentioned in it, but which can be shown to give results equivalent or superior to those specified.

1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1138 Thimbles for wire rope
- 1418 Cranes, hoists and winches
 - 1418.1 Part 1: General requirements
- 1666 Wire-rope slings
 - 1666.1 Part 1: Production certification
 - 1666.2 Part 2: Care and use
- 1735 Lifts, escalators and moving walks
 - 1735.2 Part 2: Passenger and goods lifts—Electric
 - 1735.4 Part 4: Service lifts—Power-operated
- 2076 Wire rope grips for non-lifting applications
- 2740 Wedge-type sockets
- 3159 Steel wire ropes
- 3189 Sockets for wire ropes for general purposes
 - 3189-1 Part 1: General characteristics and conditions of acceptance
 - 3189-2 Part 2: Special requirements for sockets produced by forging or machined from the solid
 - 3189-3 Part 3: Special requirements for sockets produced by casting