

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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Australian Standard™

**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This Standard includes the following changes from the superseded edition: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.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	6
1.2 APPLICATION	6
1.3 INNOVATIONS.....	6
1.4 REFERENCED DOCUMENTS	6
1.5 DEFINITIONS	7
SECTION 2 SELECTION	
2.1 GENERAL	8
2.2 PHYSICAL PROPERTIES.....	8
2.3 TEMPERATURE	9
2.4 WORKING LOAD LIMIT	9
SECTION 3 STORAGE AND HANDLING	
3.1 STORAGE.....	11
3.2 UNCOILING AND HANDLING (see Figure 3.2).....	11
SECTION 4 CUTTING AND FITTING	
4.1 ROPE END PREPARATION	14
4.2 SEIZING	14
SECTION 5 ROPE FITTINGS AND THEIR EFFICIENCIES	
5.1 SELECTION OF FITTINGS AND END ATTACHMENTS	18
5.2 TYPES OF FITTINGS	18
SECTION 6 POURED SOCKETS	
6.1 GENERAL	23
6.2 QUALIFYING AND QUALITY CONTROL.....	23
6.3 SPECIFICATIONS FOR SOCKETS.....	24
6.4 SOCKETING MATERIAL.....	24
6.5 PREPARATION OF WIRE ROPE OR STRAND AND SOCKET READY FOR FITTING	25
6.6 RESIN SOCKETING	28
6.7 METAL SOCKETING	28
6.8 INSPECTION	29
6.9 IN-SERVICE INSPECTION ADVICE.....	30
6.10 FLOW CHART PRESENTATION OF SOCKETING PROCEDURES FOR STRANDED STEEL WIRE ROPES	30
SECTION 7 SPLICING	
7.1 SPLICING TOOLS.....	34
7.2 TUCKING LENGTHS FOR EYE SPLICES	35
7.3 NUMBER OF TUCKS FOR EYE SPLICES	35
7.4 PREPARATION OF ROPE FOR SPLICING AN EYE.....	36
7.5 TUCKING METHOD.....	39
7.6 TUCKING SEQUENCE FOR FIVE-TUCK EYE SPLICES	40
7.7 LONG SPLICING	46

SECTION 8 DIMENSIONS OF SHEAVES, DRUMS AND ANCHORAGES	
8.1 GROOVES FOR SHEAVES AND DRUMS	56
8.2 DIAMETER OF SHEAVES AND DRUMS	56
8.3 DIAMETER OF DEAD EYES OR END ANCHORAGES	56
8.4 RADIAL BEARING PRESSURES	57
SECTION 9 ROPES USED ON DRUMS	
9.1 ARRANGEMENT OF ROPE ON DRUMS.....	59
9.2 ROPE ANCHORAGES	60
9.3 FLEET ANGLES.....	62
9.4 DRUM CAPACITY.....	62
SECTION 10 ROPE ROTATION	
10.1 GENERAL	66
10.2 SWIVELS.....	66
10.3 HEIGHT OF LIFT AND MULTI-PART REEVING	66
SECTION 11 INITIAL OPERATION	
67	
SECTION 12 LUBRICATION OF WIRE ROPES IN SERVICE	
12.1 GENERAL	68
12.2 CLEANING.....	68
12.3 APPLICATION OF LUBRICANTS	68
12.4 TYPE OF LUBRICANT.....	69
12.5 CHARACTERISTICS OF LUBRICANTS	70
SECTION 13 ROPE INSPECTION	
13.1 REGULAR INSPECTION.....	71
13.2 SPECIAL INSPECTION	71
13.3 FREQUENCY	72
13.4 MEASURING DIAMETER	72
13.5 INSPECTION LOG	73
13.6 POSITIONS.....	73
13.7 INTERNAL INSPECTIONS	73
13.8 NON-DESTRUCTIVE TESTING	74
SECTION 14 ROPE DISCARD	
14.1 GENERAL	78
14.2 CONSTRUCTION.....	79
14.3 FRACTURED STRANDS.....	80
14.4 BROKEN WIRES.....	80
14.5 PLASTIC DEFORMATION.....	87
14.6 PHYSICAL DAMAGE.....	88
14.7 HEAT OR ELECTRIC ARCING	89
14.8 CORROSION	89
14.9 WEAR.....	93
14.10 STRETCH	95
14.11 REDUCTION OF ROPE DIAMETER	96
14.12 DECREASED ELASTICITY	96
14.13 DEFORMATION	97
14.14 DAMAGE WHILE ON DRUMS.....	106
14.15 DAMAGE CAUSED BY SHEAVES	107

Page

APPENDICES

A	GLOSSARY OF TERMS RELATING TO STEEL WIRE ROPES AND THEIR APPLICATION	108
B	STANDARDS FOR COMPONENTS USED IN LIFTING SYSTEMS.....	116
C	WROUGHT ALUMINIUM ALLOY FERRULES (BASED ON DIN 3093.1 AND DIN 3093.2).....	117

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: Product specification
- 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
- 3569 Steel wire ropes

ISO

- 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