

Australian Standard[®]

**STEEL WIRE ROPE —
APPLICATION GUIDE**

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APPLICATION GUIDE**

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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- (e) The specifications for metallised sockets have been replaced by references to suitable standards.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 Hoisting Purposes in Mines
AS 1438	Wire-coil Flat Slings
AS 1504	Fibre Rope—Three-strand, Hawse 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 Eye-bolts
AS 2318	Swivels
AS 2319	Rigging Screws and Turnbuckles
AS 2321	Shackles—Link Chain for Lifting Purposes (Non-calibrated)
AS 2740	Wedge-type Sockets
AS 2741	Shackles
AS B201	Lifting Rings and Links

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
STEEL WIRE ROPE—APPLICATION GUIDE

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.