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WITHDRAWN
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AS 1656—1974
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Australian Standard 1656—1974

STEEL WIRE ROPES

(OTHER THAN FOR MINING PURPOSES)

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

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THE FOLLOWING INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS AND departments were officially represented on the committee entrusted with the preparation of this standard:

Department of Defence (Department of the Army)

Department of Defence (Department of the Navy)

Departments of Labour and Industry

Departments of Mines

Manufacturers of lifts, cranes and hoists, and lifting tackle

Manufacturers of wire ropes

This standard, prepared by Committee ME/7, Steel Wire Ropes, was approved on behalf of the Council of the Standards Association of Australia on July 1974.

In order to keep abreast of progress in the industries concerned, Australian standards are subject to periodical review. Suggestions for improvements, addressed to the headquarters of the Association, are welcomed.

This standard was issued in draft form for public review as DR 73104.

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AUSTRALIAN STANDARD SPECIFICATION

STEEL WIRE ROPES
(OTHER THAN FOR MINING PURPOSES)

AS 1656—1974

First published (as AS B183 to B187).....1968
Revised and issued as AS 1656 1974
Amended ..... October 1978
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PREFACE

This standard was prepared by the Association's Committee on Steel Wire Ropes as a revision and metrication of AS B183 to B187 — 1968, which it accordingly supersedes. It takes cognizance of the relevant British and International Organization for Standardization (ISO) documents and acknowledgement is made of the assistance received from those sources.

The ropes dealt with in this standard are produced from wire graded according to the minimum tensile strength of the wire; this standard nominates the minimum breaking load of the rope.

In accordance with the adoption of the metric system of measurement, the size of wire ropes is now nominated by the diameter in millimetres. This becomes the principal dimension on which the minimum breaking loads (kN) and masses (kg/100 m) of bright and galvanized ropes are based. Metric-sized standard ropes may not be suitable for some existing equipment designed in imperial units, and replacement ropes equivalent to imperial sizes may be essential, but designers and users are urged to take appropriate steps whereby metric-sized ropes can be used.

It should be noted that while all the constructions listed for the 1770 grade apply to the bright or galvanized condition, the 1570 grade is confined to galvanized rope and a limited range of constructions.

This standard does not cover strand for guying, bridging, and aerial ropeways.

The standard tabulates the mass and minimum breaking load of available sizes and constructions of steel wire rope and includes clauses on general requirements, lubrication, packing, and testing of steel wire ropes. Appendices include examples of the recommended forms of the certificates for test and examination.

It is not intended that equipment designers should have their choice of ropes restricted to sizes, constructions and tensile strengths shown in this standard and it is possible that a rope outside the range specified may be required. It is anticipated that during the life of this standard more experience will be obtained in the use of man-made fibre cores. The use of the term 'Australian Standard' is restricted to actual sizes, constructions and tensile strengths laid down in the tables of this standard. When so agreed between the purchaser and the manufacturer, other strand constructions may be supplied.

This standard requires reference to the following standards:

AS 1391, Method for Tensile Testing of Metals

AS 1394, Round Steel Wire for Ropes

AS B128, Verification of Testing Machines

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AS MB1, SAA Steel Wire Rope Manual

BS 525, Fibre Core for Wire Ropes

Reference may also be necessary to:

AS 1426, Steel Wire Ropes for Winding and Haulage Purposes in Mines

AS . . . .*, Wire Rope Slings.

Recommendations concerning the selection, storage, handling and maintenance of wire ropes are given in AS MB1, SAA Steel Wire Rope Manual.

* In course of preparation as metrication and revision of AS B286.

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