

AS 3569—1989

Australian Standard<sup>®</sup>

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**Steel wire ropes**

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This Australian Standard was prepared by Committee ME/7, Steel Wire Ropes. It was approved on behalf of the Council of Standards Australia on 16 June 1988 and published on 20 October 1989.

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Australasian Institute of Mining and Metallurgy  
Australian Chamber of Commerce  
Australian Chamber of Shipping  
Australian Federation of Construction Contractors  
Australian Mining Industry Council  
Confederation of Australian Industry  
Department of Defence  
Department of Industrial Relations & Employment, N.S.W.  
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For previous history see Preface.  
AS 1426—1973 and AS 1656—1974 revised, amalgamated  
and redesignated AS 3569—1989.

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## PREFACE

This Standard was prepared by the Standards Australia Committee on Steel Wire Ropes to supersede AS 1426—1973, *Steel wire ropes for winding and haulage purposes in mines*, and AS 1656—1974, *Steel wire ropes (other than for mining purposes)*.

The first Australian Standard for steel wire ropes, viz AS B9, *Round steel wire ropes for cranes and hoists*, was issued in 1938 and revised and redesignated AS B 185 in 1968.

In 1955, AS M4, *Steel wire ropes for winding and haulage purposes in mines*, was issued. This Standard was revised and metricated as AS 1426 in 1973.

In addition, the following Standards were produced in 1968:

- AS B183 *Steel wire ropes for general purposes*
- AS B184 *Steel wire ropes for lifts*
- AS B186 *Steel wire ropes for field equipment*
- AS B187 *Galvanized steel wire ropes for marine and other purposes*.

In 1974, AS B183 to AS B187 inclusive were revised and metricated and issued as AS 1656.

The Standard now covers steel wire ropes used for general purposes, for lifts, and for mine winding and haulage purposes. In addition to amalgamating AS 1426 and AS 1656 it has been expanded to include ropes not previously listed. Ropes no longer used have been deleted. The International (ISO) system of rope designation has been adopted.

The committee has suggested that the introduction of the ISO designation system be phased in over a period of two years. This time period is a matter for the industry to decide but, to assist in converting from the present Australian method to the ISO System, charts are included in which the constructions are labelled in the three systems, namely, the ISO construction, the abbreviated ISO construction, and the previous Australian Standard construction. As a further aid, charts are also included which give the method of describing the ISO designation system. The charts are not copyright so they may be reproduced for use as wallcharts or in other suitable ways for education or reference.

Appendices have been added which provide information to be supplied by purchasers, guidelines on the selection of ropes, examples of typical rope applications, method of calculating the minimum breaking force, and the previous Australian Standard rope designation system.

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