

Australian Standard™

**Yachting harnesses and lines—  
Conventional lines**



This Australian Standard was prepared by Committee CS-051, Yachtsmen's Safety Harnesses and Lines. It was approved on behalf of the Council of Standards Australia on 19 January 2006.

This Standard was published on 10 February 2006.

---

The following are represented on Committee CS-051:

Australian Industry Group  
Boating Industry Association of Australia  
Engineers Australia  
N.S.W. Department of Sport and Recreation  
Maritime Safety Queensland  
Maritime Safety Victoria  
Roads and Traffic Authority of N.S.W.  
Tasmania Maritime Network  
Yachting Australia

---

### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at [www.standards.com.au](http://www.standards.com.au) and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at [mail@standards.org.au](mailto:mail@standards.org.au), or write to the Chief Executive, Standards Australia, GPO Box 476, Sydney, NSW 2001.

---

Australian Standard™

**Yachting harnesses and lines—  
Conventional lines**

Originated as AS 2227—1978.  
Previous edition 1992.  
Fifth edition 2006.

**COPYRIGHT**

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 7247 1

## PREFACE

This Standard was prepared by the Standards Australia Committee CS-051, Yachtsman's Safety Harnesses and Lines to supersede AS 2227—1992. The major change in this edition is the specification of separate line and harness tests. The Committee feels it is no longer current thinking to test the line and harness together.

The objective of this Standard is to provide manufacturers and suppliers of yachting harnesses and conventional lines with requirements for their design, performance and marking to ensure they are suitable for use in the marine environment.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

## CONTENTS

	<i>Page</i>
1 SCOPE.....	4
2 REFERENCED DOCUMENTS.....	4
3 DEFINITIONS.....	4
4 DESIGN REQUIREMENTS.....	5
5 MATERIALS.....	6
6 SEWING.....	7
7 DYNAMIC LOAD.....	7
8 INSTRUCTIONS FOR HARNESES .....	8
9 MARKING FOR HARNESES.....	8
10 INSTRUCTIONS FOR LINES .....	8
11 MARKING FOR LINES.....	9
APPENDICES	
A METHOD OF TEST FOR LOAD INDICATORS .....	10
B METHOD OF TEST FOR NON-MAGNETIC PROPERTIES .....	12
C METHOD OF TEST FOR DYNAMIC LOAD ON A HARNESS.....	13
D METHOD OF TEST FOR DYNAMIC LOAD ON A LINE.....	17

## STANDARDS AUSTRALIA

### Australian Standard

## Yachting harnesses and lines—Conventional lines

### 1 SCOPE

This Standard specifies requirements for harnesses and lines for use by yachtsmen, including children. It includes general design requirements, constructional requirements, test methods and requirements for individual components, together with dynamic load tests. The lines covered by this Standard are those that require manual declipping at the boat anchorage point.

This Standard applies to harnesses and lines for use by yachtsmen engaged in both offshore (including ocean racing) and inshore (including trailerable yachts) activities.

It is not applicable to dinghy ‘trapeze’ harnesses, windsurfing harnesses, seat harnesses for fast motor boats and harnesses intended to provide protection from falling from a height.

### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1753 Webbing for restraining devices for occupants of motor vehicles

AS/NZS

1891 Industrial fall-arrest system and devices

1891.1 Part 1: Safety belts and harnesses

EN

892 Mountaineering equipment—Dynamic mountaineering ropes—Safety requirements and test methods

### 3 DEFINITIONS

For the purpose of this Standard, the definitions below apply.

#### 3.1 Adjusting buckle

A buckle used primarily for the adjustment of harness fitment.

#### 3.2 Attachment point

A strong point of connection on a harness, line or vessel.

#### 3.3 Crotch strap

A holding down device attached to the harness and worn between the legs.

#### 3.4 Harness

An arrangement of webbed straps that provides an attachment point and is securely fitted to the wearer.

#### 3.5 Holding down device

Crotch and thigh straps, integration or attachment to clothing worn between the legs.

#### 3.6 Keeper

A device used to prevent a harness strap from slipping through a buckle.