

AS/NZS 2211.2:1997

Australian/New Zealand Standard®

Laser safety

**Part 2: Safety of optical fibre
communication systems**

AS/NZS 2211.2:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF/19, Personal Protection Against Laser Radiation. It was approved on behalf of the Council of Standards Australia on 17 November 1996 and on behalf of the Council of Standards New Zealand on 23 December 1996. It was published on 5 March 1997.

The following interests are represented on Committee SF/19:

Australasian Faculty of Occupational Medicine
Australian Chamber of Commerce and Industry
Australian Defence Force Academy
Australian Dental Industry Association
Australian Radiation Laboratory
Department of Defence, Australia
Department of Training and Industrial Relations, Qld
National Radiation Laboratory, New Zealand
N.S.W. Health Department
Optus Communications
Queensland Health
Queensland University of Technology, Department of Optometry
Royal Australian College of Ophthalmologists
Telecom New Zealand
Telstra Corporation
University of Melbourne, Department of Optometry
Victorian WorkCover Authority
WorkCover N.S.W.

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AS/NZS 2211.2:1997

Australian/New Zealand Standard®

Laser safety

Part 2: Safety of optical fibre communication systems

First published as AS/NZS 2211.2:1997.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7337 0992 3

PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee SF/19 on Personal Protection Against Laser Radiation.

It is based on IEC 825-2:1993, *Safety of laser products*, Part 2: *Safety of optical fibre communication systems*, except as follows:

- (a) Unclear wording has been clarified, editorial corrections have been made and, where possible, references to IEC Standards have been replaced with references to Joint Australian/New Zealand Standards.
- (b) The wavelength range covered in the Standard has been lowered to 100 nm.
- (c) A new informative Appendix has been added, dealing with the application of this Standard, and recommends practices for working on optical fibre systems. This Appendix is based on a draft currently being prepared by IEC/TC 76.

The variations from IEC 825-2:1993 set out as Items (a), (b), and (c) represent measures deemed to be essential to the protection of human health and safety, as provided for under Section 2.2 of the Technical Barriers to Trade Agreement (GATT/TBT Code). Because of the extent of these technical changes, a number of consequential editorial changes and revisions of the informative material were needed. The document was also re-keyed from the original to assist in readability.

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.

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED DOCUMENTS	4
3 DEFINITIONS	4
4 MANUFACTURING REQUIREMENTS	6
5 GUIDANCE FOR SERVICE AND MAINTENANCE	9
 APPENDICES	
A RATIONALE	11
B SUMMARY OF ENGINEERING REQUIREMENTS AT LOCATIONS IN OPTICAL FIBRE COMMUNICATION SYSTEMS	13
C METHODS OF HAZARD/SAFETY ANALYSIS	14
D APPLICATION NOTES	15

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-