

AS 3084—1993

Australian Standard[®]

**Telecommunications installations—
Telecommunications pathways and
spaces for commercial buildings**

This Australian Standard was prepared by Committee IT/17, Integrated Cabling Systems for Buildings. It was approved on behalf of the Council of Standards Australia on 23 July 1993 and published on 13 September 1993.

The following interests are represented on Committee IT/17:

AUSTEL

Australian Electrical and Electronic Manufacturers Association

Australian Information Industry Association

Australian Telecommunications Users Group

Building Owners and Managers Association of Australia

Department of Defence

Electricity Supply Association of Australia

Institution of Radio and Electronics Engineers Australia

International Facility Management Association

National Electrical Contractors Association

Optus Communications

Telstra Corporation

Additional interests participating in preparation of Standard:

Equipment manufacturers

Review of Australian Standards. To keep abreast of progress in industry, Australian 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 Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

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

This Standard was issued in draft form for comment as DR 91231.

AS 3084—1993

Australian Standard[®]

**Telecommunications installations—
Telecommunications pathways and
spaces for commercial buildings**

First published as AS 3084—1993.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 8451 3

PREFACE

This Standard was prepared by the Standards Australia Committee for Integrated Cabling Systems for Buildings, and is based on EIA/TIA 569, *Commercial Building Standard for Telecommunications Pathways and Spaces* but takes account of current practices in Australia. The USA Standard was developed with the support of the American Institute of Architects and the Construction Specifications Institute, since it highly influences both the design and construction of commercial buildings, where various building components are to be structured into facilities which are responsive to telecommunications needs.

It should be noted that this Standard has a special relationship to AS 3080, *Telecommunications installations—Integrated communications cabling systems for commercial premises*. It recognizes that both building wiring and architectural provisions of the building into which such wiring systems are installed need to be standardized.

Standards Australia intends to promulgate Standards covering building wiring systems in the residential and light commercial building environments and also administrative management of cabling systems.

A useful supplement to this Standard is the AUSTEL *Customer Premises Cabling Manual* which details mandatory practices for cabling in Australia, particularly where installations are to be connected to telecommunications carrier networks.

AS 3000, *Electrical installations—Buildings, structures and premises (known as the SAA Wiring Rules)* contains general requirements for cabling pathways within buildings. AUSTEL Technical Standards TS 008, *Requirements for Authorised Cabling Products*, TS 009, *Installation Requirements for Customer Cabling (Wiring Rules)* may also be applicable.

Some of the figures in this Standard are reproduced by courtesy of the following organizations:

Australasian Cable Supports:	Figure A3
Ductall Systems:	Figure 5(b)
Esco Industries:	Figures 5(a), A1, A2, A4
Prospect Electricity:	Figure 4
Telecom Australia:	Figures 16, 17, 18, 19

© Copyright — STANDARDS AUSTRALIA

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

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

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no 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 at any time.

CONTENTS

	<i>Page</i>
FOREWORD	4
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	5
1.2 APPLICATION	5
1.3 REFERENCED AND RELATED DOCUMENTS	6
1.4 DEFINITIONS	6
SECTION 2 HORIZONTAL PATHWAYS	
2.1 GENERAL	10
2.2 INFLOOR	10
2.3 ACCESS FLOOR	14
2.4 CONDUIT	16
2.5 CABLE TRAYS AND DUCTS	17
2.6 CEILING PATHWAY	18
2.7 PERIMETER PATHWAYS	19
2.8 MISCELLANEOUS	22
SECTION 3 BACKBONE PATHWAYS	
3.1 GENERAL	23
3.2 INTRA-BUILDING PATHWAYS	23
3.3 INTER-BUILDING PATHWAYS	24
SECTION 4 WORKSTATION	
4.1 GENERAL	28
4.2 SPECIFIC WORKSTATION PATHWAYS	28
4.3 TELECOMMUNICATIONS OUTLETS	28
SECTION 5 TELECOMMUNICATIONS CLOSET	
5.1 GENERAL	29
5.2 DESIGN CONSIDERATIONS	29
SECTION 6 EQUIPMENT ROOM	
6.1 GENERAL	33
6.2 DESIGN CONSIDERATIONS	33
SECTION 7 ENTRANCE FACILITIES	
7.1 GENERAL	36
7.2 BUILDING SITE CONSIDERATIONS	36
7.3 SERVICE ENTRANCE PATHWAY	36
7.4 ENTRANCE POINT	44
7.5 ENTRANCE ROOM OR SPACE	45
SECTION 8 MISCELLANEOUS ITEMS	
8.1 EARTHING AND BONDING	47
8.2 FIRESTOPPING	47
8.3 SECURITY	47
8.4 MISCELLANEOUS PATHWAYS	47
8.5 SEPARATION OF PATHWAY AND SPACE FROM ELECTROMAGNETIC ENERGY SOURCES	47
8.6 BEND RADII FOR SPECIAL CABLES	47
APPENDIX A ADDITIONAL SECTION INFORMATION	49

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
-