Australian/New Zealand Standard™

Telecommunications installations—Administration of communications cabling systems

Part 1: Basic requirements

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND
Paerewa Aotearoa

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 29 April 2004 and on behalf of the Council of Standards New Zealand on 7 May 2004. It was published on 9 June 2004.

The following are represented on Committee CT-001:

Australian Communications Industry Forum
Australian Electrical and Electronic Manufacturers Association
(Australian) National Electrical and Communications Association
(Australian) Telecommunications Industry Training and Advisory Board (TITAB)
BICSI Australia
Electrical Compliance Testing Association
Electrical Regulatory Authorities Council
Electricity Supply Association of Australia
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 02639.

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Telecommunications installations—Administration of communications cabling systems

Originated as AS/NZS 3085.1:1995.
Second edition 2004.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6079 1

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling to supersede AS/NZS 3085.1:1995.

The objective of this Standard is to provide designers and specifiers, building owners and managers, and those who are required to meet cabling requirements (e.g. installers), with a standard format for specifying required cabling in tender and construction drawings, and basic specifications for identification and recording of components at the time of installation to aid in administration of application, maintenance and reconfiguration (if necessary) of telecommunications cabling infrastructure.

Adoption of this Standard will benefit architects, consultants, engineers, building owners and managers in the following respects:

(a) Facilitate standard methods for specifying, recording and interpreting plant by all staff and contractors.

(b) Allow single person or single contractor dependencies to be avoided.

(c) Facilitate planning and administration by remote staff such as information systems administrators, centralized help desks, or specialist consultants.

(d) Increase the speed of network troubleshooting and reduce down-time.

(e) Allow rapid identification and restoration of services after major building events, e.g. fire, flood or vandalism damage.

(f) Provide backup records allowing labels on plant to be restored if removed or damaged.

This Standard references ISO/IEC 14763-1, *Information Technology—Implementation and operation of customer premises cabling*, Part 1: *Administration*, which specifies a comprehensive approach to administration including labelling and database record systems. The ISO/IEC 14763-1 document does not describe methods for recording outdoor cabling between buildings on site plans, rack layouts, or the documentation of open office and centralized fibre optic cabling.

The ISO/IEC 14763-1 document may later be used as the basis for a corresponding Australian/New Zealand Standard, which would be Part 2 of this Standard. However, the Committee believes that this ‘basic’ Standard will meet the requirements of the majority of users. It covers labelling and essential distribution records and drawings to the minimum extent required to effectively maintain communications cabling infrastructure.

This Standard varies the extent and format of documentation depending on the size of the site using a classification system aligned to TIA/EIA 606-A. This allows it to be used for small SOHO and SME installations through to very large sites. The most basic documentation is provided for a Class 1 site comprising a single distributor, ranging through to plans and records for a Class 3 site comprising a multi-building campus. This Standard does not suggest a methodology for the establishment of a single administration system which could be used for centralized administration of Class 4 installations comprising multiple sites.

The informative Appendix F provides a comparison of the requirements of this document with the requirements of EIA/TIA 606-A and ISO/IEC 14763-1.

This Standard covers all current network architectures for all types of building and campus and facilitates standardization of engineering drawings prepared for the purpose of tender specifications, contract documents and as-built records. It is compatible with both the existing Australian National Specification System (Natspec) and the USA CIS Division 25 specification system T-series construction drawings which may be adapted in the future for use in Australia and New Zealand.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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1 SCOPE

This Standard covers the essential basic requirements for identification of components of the cabling and pathway systems and for the recording of installation particulars.

Computer database systems for cabling administration are not described in this Standard, but are covered in ISO/IEC 14763-1.

The methods included in this Standard may be used to supplement records automatically generated by cable test and certification equipment to create a complete record.

2 APPLICATION

The likely users of this Standard are architects, consultants and engineers specifying building works, and building owners and managers who wish to have a basic record of installations in order to meet tenant requirements and to facilitate access to and changes to the telecommunications infrastructure. The application of this Standard relative to other Australian Standards, Joint Australian/New Zealand Standards and other National Standards is indicated in Figure 1.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1100	Technical drawing
1100.401	Part 401: Engineering survey and engineering survey design drawing
AS/NZS	
1102	Graphical symbols for electrotechnical documentation
1102.103	Part 103: Conductors and connecting devices
1102.110	Part 110: Telecommunications—Transmission
1102.111	Part 111: Architectural and topographical installation plans and diagrams
2211	Safety of laser products
3080	Telecommunications installations—Generic cabling for commercial premises
3084	Telecommunications installations—Telecommunications pathways and spaces for commercial buildings
3086	Telecommunications installations—Integrated telecommunications cabling systems for small office/home office premises
3087	Telecommunications installations—Generic cabling systems
3087.1	Part 1: Specification for the testing of balanced communication cabling
3087.2	Part 2: Specification for the testing of patch cords in accordance with AS/NZS 3080