AS 3085.1:2022

Australian STANDARD®

STANDARDS Australia

Telecommunications installations — Administration of communications cabling systems

Part 1: Basic requirements

AS 3085.1:2022

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The following are represented on Committee CT-001:

Australian Chamber of Commerce and Industry
Australian Council of Trade Unions (ACTU)
Australian Digital and Telecommunications Industry Association
Australian Industry Group
Australian Information Industry Association
BICSI South Pacific (Australia)
Energy Networks Australia
Engineers Australia
KNX National Group
National Electrical Communications Association
NBN Co
Telstra Corporation
TITAB

Additional Interests

BICSI South Pacific (New Zealand)
Technology Users Association of New Zealand
VTI Services

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CT-001, Interconnection of Information Technology Equipment to supersede AS/NZS 3085.1:2004.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to provide a standard format for cabling requirements used in tender and construction drawings. This document provides basic specifications for identification and recording of components during design and at the time of installation in order to aid in the administration of application, maintenance and reconfiguration of telecommunications cabling infrastructure. It also includes consideration of the application of Building Information Modelling (BIM) software in the production of cabling infrastructure physical layout drawings.

This document —

(a) facilitates standardized methods for specifying, recording and interpreting plant by all staff and contractors;

(b) allows single person or single contractor dependencies to be avoided;

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

(d) increases the speed of network troubleshooting and reduces down-time;

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

(f) provides backup records allowing labels on plant to be restored if removed or damaged; and

(g) facilitates standardization of engineering drawings prepared for the purpose of tender specifications, contract documents; and as-built records including drawings and cross connections.

The particular requirements of this Standard supplement the general requirements specified in AS/NZS 14763.2 *Information technology — Implementation and operation of customer premises cabling, Part 2: Planning and installation (ISO/IEC 14763-2 (ED. 2.0) MOD)*. This document is intended to be read in conjunction with AS/NZS 14763.2.

Where AS/NZS 14763.2 specifies generic requirements for cabling infrastructure administration including labelling, capture of test results and database record systems, this document covers the methodology for documenting components of the cabling and pathway systems by way of infrastructure drawings and for the recording of installation particulars.

The respective coverage of topics associated with cabling infrastructure documentation and administration in this document as compared to AS/NZS 14763.2 is summarized in the cross reference matrix provided in Appendix F.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is only for information and guidance.

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1 Scope

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2 Application

This document is intended for use by architects, consultants and engineers specifying building works, and building owners and managers who wish to have a basic record of installations in order to facilitate access, and changes, to the telecommunications infrastructure.

A diagram showing the application of this document relative to other Australian Standards, Joint Australian/New Zealand Standards and other National Standards is provided in AS/NZS 11801.1, in the figure detailing “Customer cabling Standards in Australia”.

3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS/NZS 14763.2, *Information technology — Implementation and operation of customer premises cabling, Part 2: Planning and installation (ISO/IEC 14763-2 (ED. 2.0) MOD)*

AS/CA S009. *Installation requirements for customer cabling (Wiring rules)*

4 Terms and definitions

For the purposes of this document, the terms and definitions, given in AS/NZS 11801.1, AS/NZS 14763.2, and the following apply.

4.1.1
building
substantial structure with a roof and walls

4.1.2
Building Information Modelling
BIM
software used for creating three dimensional models of physical building structures and services infrastructure

4.1.3
container
<1> enclosure or surface to which a specific equipment item or closure is mounted