



Information technology — Generic cabling for customer premises

Part 5: Data centres (ISO/IEC 11801-5:2017, MOD)



AS 11801.5:2019

This Australian Standard® was prepared by CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 3 May 2019.

This Standard was published on 24 May 2019.

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- Australian Chamber of Commerce and Industry
- Australian Council of Trade Unions
- Australian Digital and Telecommunications Industry Association
- Australian Industry Group
- Australian Information Industry Association
- BICSI South Pacific (Australia)
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This Standard was issued in draft form for comment as DR AS 11801.5:2018.

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Originated as AS/NZS ISO/IEC 24764:2012.
Revised and redesignated as AS 11801.5:2019.

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling. AS/NZS 11801.1 in conjunction with AS 11801.5, supersedes AS/NZS ISO/IEC 24764:2012, *Generic cabling systems for data centres*.

The objective of this Standard is to specify generic cabling within and to the computer room spaces of data centre premises, or data centre spaces within other types of buildings. It covers balanced cabling and optical fibre cabling.

This Standard is optimized for premises in which the maximum distance over which telecommunications services can be distributed is 2 000 m. The principles of this Standard can also be applied to larger installations.

Cabling specified by this Standard supports a wide range of services including voice, data and video that can also incorporate the supply of power.

This Standard specifies directly or via reference to AS/NZS ISO/IEC 11801.1—

- (a) the structure and minimum configurations for generic cabling within data centres;
- (b) the interfaces at the equipment outlet (EO) and the external network interface (ENI);
- (c) the performance requirements for cabling links and channels;
- (d) the implementation requirements and options;
- (e) the performance requirements for cabling components; and
- (f) the conformance requirements and verification procedures.

Safety (e.g. electrical safety and protection, fire) and electromagnetic compatibility (EMC) requirements are outside the scope of this Standard, and are covered by other Standards and by regulations. However, information given by this Standard can be of assistance.

This Standard is intended to be read in conjunction with AS/NZS 11801.1, *Information Technology — Generic cabling for customer premises, Part 1: General requirements (ISO/IEC 11801-1:2017, MOD)*.

This Standard is one of a series of customer cabling Standards addressing design, minimum specification and performance of links and channels, cable/cabling accommodation and installation, conformance testing and administration.

This Standard is part of a series of Standards which are associated with other Australian Standards, Australian/New Zealand Standards and International Standards.

Standards which are part of the series and Standards that are associated with this Standard are as follows:

AS/NZS 11801.1, *Information technology—Generic cabling for customer premises, Part 1: General requirements (ISO/IEC 11801-1:2017, MOD)*

AS 11801.2, *Information technology—Generic cabling for customer premises, Part 2: Office premises (ISO/IEC 11801-2:2017, MOD)*

AS 11801.3, *Information technology—Generic cabling for customer premises, Part 3: Industrial premises (ISO/IEC 11801-3:2017, MOD)*

AS 11801.4, *Information technology—Generic cabling for customer premises, Part 4: Single-tenant homes (ISO/IEC 11801-4:2017, MOD)*

AS 11801.5, *Information technology—Generic cabling for customer premises, Part 5: Data centres (ISO/IEC 11801-5:2017, MOD)* (this Standard)

AS 11801.6, *Information technology—Generic cabling for customer premises, Part 6: Distributed building services (ISO/IEC 11801-6:2017, MOD)*

AS 30129, *Information technology—Telecommunications bonding networks for buildings and other structures (ISO/IEC 30129:2015 MOD)*

AS/NZS 2967, *Optical fibre communication cabling systems safety*

AS/NZS 3084, *Telecommunications installations—Telecommunications pathways and spaces for commercial buildings*

AS/NZS 3085.1, *Telecommunications installations—Administration of communications cabling systems, Part 1: Basic requirements*

AS/NZS ISO/IEC 14763.2, *Information technology—Implementation and operation of customer premises cabling, Part 2: Planning and installation*

AS/NZS 14763.3, *Information technology—Implementation and operation of customer premises cabling, Part 3: Testing of optical fibre cabling (ISO/IEC 14763-3:2014, MOD)*

IEC 61935.1, *Specification for the testing of balanced and coaxial information technology cabling — Part 1: Installed balance cabling as specified in ISO/IEC 11801 and related standards*

IEC 61935.2, *Specification for the testing of balanced and coaxial information technology cabling — Part 2: Cords as specified in ISO/IEC 11801 and related standards*

This Standard is an adoption with national modifications, and has been reproduced from, ISO/IEC 11801-5:2017, *Information technology — Generic cabling for customer premises — Part 5: Data centres* and its Corrigendum No. 1 (2018). The modifications in Appendix ZZ are additional requirements, which have been added at the end of the source text.

Appendix ZZ lists the variations to ISO/IEC 11801-5:2017 for the application of this Standard in Australia.

This Standard is structured as follows:

- (i) Preface.
- (ii) ISO/IEC 11801-5:2017 (unedited from the contents page to the final clause of the source document) and its Corrigendum No. 1 (2018).
- (iii) Appendix ZZ lists the variations to ISO/IEC 11801-5:2017 for the application of this Standard in Australia.

As this document has been reproduced from an International Standard, the following applies:

(A) In the source text “this part of ISO/IEC 11801” should read “this Australian Standard”.

(B) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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

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