DRAFT International Standard

ISO/IEC DIS 22237-5

Information technology — Data centre facilities and infrastructures —

Part 5: Telecommunications cabling infrastructure

Technologie de l'information — Installation et infrastructures de centres de traitement de données —

Partie 5: Infrastructure du câblage dédié télécommunications

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/IEC JTC 1, *Information Technology*, Subcommittee SC 39, *Sustainability, IT & data centres*.

This second edition cancels and replaces the first edition (ISO/IEC TS 22237-5:2018), which has been technically revised.

The main changes are as follows:

— the document structure has been completely revised;

— the availability classes have been revised;

— a clause on physical security has been added (Clause 7);

— Annex C summarizing the requirements and recommendations of the document has been added;

— Annex D with examples for cabling infrastructures including the location of active equipment has been added;

— Annex E with an availability description has been added;

— Annex F with specific requirements for colocation data centres has been added.

A list of all parts in the ISO/IEC 22237 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The unrestricted access to internet-based information demanded by the information society has led to an exponential growth of both internet traffic and the volume of stored/retrieved data. Data centres are housing and supporting the information technology and network telecommunications equipment for data processing, data storage and data transport. They are required both by network operators (delivering those services to customer premises) and by enterprises within those customer premises.

Data centres need to provide modular, scalable and flexible facilities and infrastructures to easily accommodate the rapidly changing requirements of the market. In addition, energy consumption of data centres has become critical, both from an environmental point of view (reduction of carbon footprint), and with respect to economic considerations (cost of energy) for the data centre operator.

The implementation of data centres varies in terms of:

a) purpose (enterprise, co-location, co-hosting or network operator facilities);

b) security level;

c) physical size; and

d) accommodation (mobile, temporary and permanent constructions).

NOTE Cloud services can be provided by all data centre types mentioned.

The needs of data centres also vary in terms of availability of service, the provision of security and the objectives for energy efficiency. These needs and objectives influence the design of data centres in terms of building construction, power distribution, environmental control, telecommunications cabling and physical security. Effective management and operational information is required to monitor achievement of the defined needs and objectives.

The ISO/IEC 22237 series specifies requirements and recommendations to support the various parties involved in the design, planning, procurement, integration, installation, operation and maintenance of facilities and infrastructures within data centres. These parties include:

1) owners, operators, facility managers, ICT managers, project managers, main contractors;

2) consultants, architects, building designers and builders, system/installation designers, auditors, test and commissioning agents;

3) suppliers of equipment; and

4) installers, maintainers.

At the time of publication of this document, the ISO/IEC 22237 series comprises the following documents:

— ISO/IEC 22237-1, *Information technology — Data centre facilities and infrastructures — Part 1: General concepts*;

— ISO/IEC 22237-2, *Information technology — Data centre facilities and infrastructures — Part 2: Building construction*;

— ISO/IEC 22237-3, *Information technology — Data centre facilities and infrastructures — Part 3: Power distribution*;

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— ISO/IEC 22237-4, *Information technology — Data centre facilities and infrastructures — Part 4: Environmental control*;

— ISO/IEC 22237-5 (this document), *Information technology — Data centre facilities and infrastructures — Part 5: Telecommunications cabling infrastructure*;

— ISO/IEC 22237-6, *Information technology — Data centre facilities and infrastructures — Part 6: Security systems*;

— ISO/IEC TS 22237-7: *Information technology — Data centre facilities and infrastructures — Part 7: Management and operational information*

— ISO/IEC TS 22237-30: *Information technology — Data centre facilities and infrastructures — Part 30: Earthquake risk and impact analysis*.

The inter-relationship of the documents within the ISO/IEC 22237 series is shown in Figure 1.

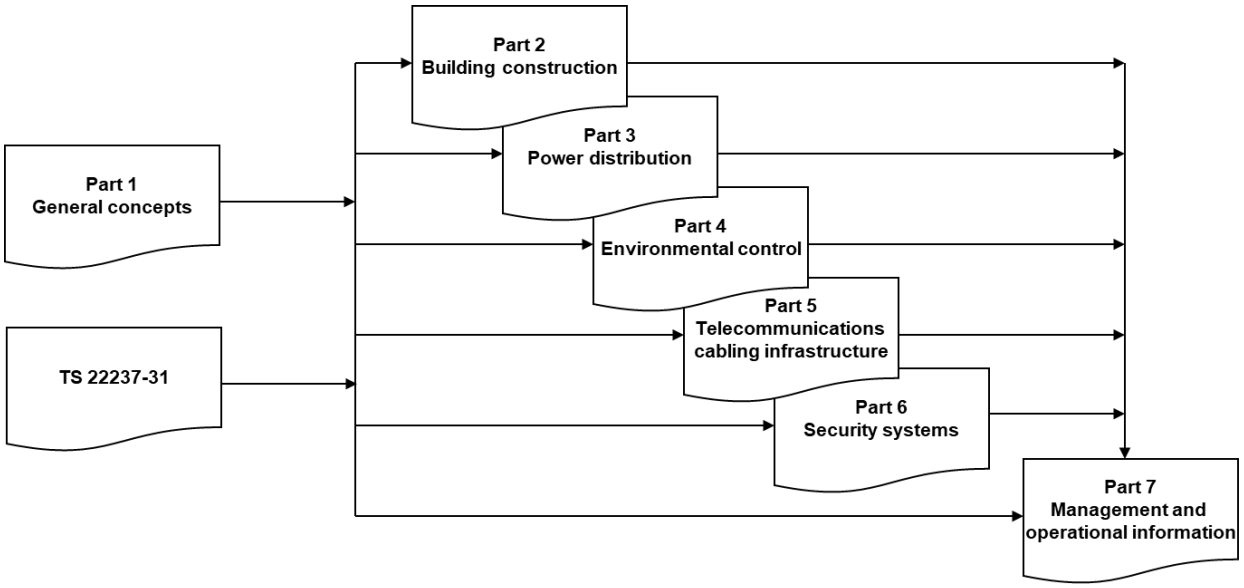


Figure 1 — Schematic relationship between the ISO/IEC 22237 series of documents

ISO/IEC 22237-2 to ISO/IEC 22237-6 specify requirements and recommendations for particular facilities and infrastructures to support the relevant classification for “availability”, “physical security” and “energy efficiency enablement” selected from ISO/IEC 22237−1.

This document addresses the specific requirements for the telecommunications cabling infrastructure in data centres used for the purpose of IT networking and building services (in accordance with the requirements of ISO/IEC 22237−1.

ISO/IEC TS 22237-7 addresses the operational and management information (in accordance with the requirements of ISO/IEC 22237-1.

ISO/IEC TS 22237-31 addresses resilience attributes, including dependability and fault tolerance metrics.

This document is intended for use by and collaboration between architects, building designers and builders, system and installation designers.

The ISO/IEC 22237 series does not address the selection of information technology and network telecommunications equipment, software and associated configuration issues.

Figure 2 shows the schematic and contextual relationships of ISO/IEC 22237-5 with other cabling and cabling installation related standards.

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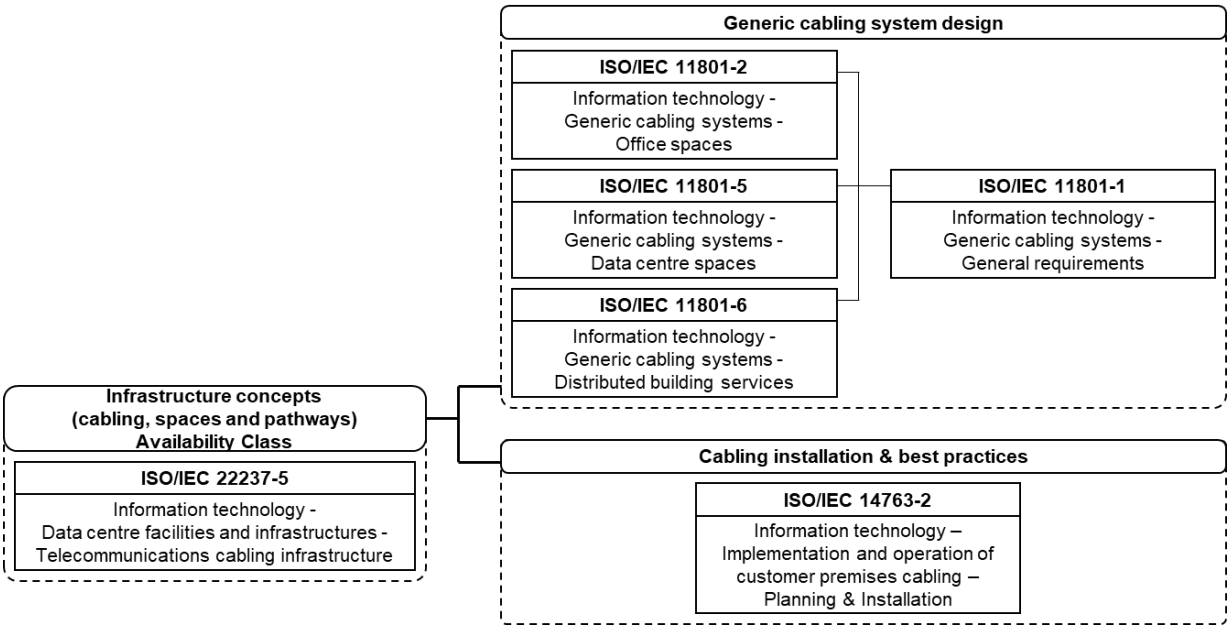


Figure 2 — Schematic relationship between ISO/IEC 22237-5 and other cabling design and installation standards

The importance of the information technology and network telecommunications cabling infrastructure is similar to that of other infrastructures such as environmental control, power distribution and security systems. As with other utilities, interruptions to service can have a serious impact. Poor quality of service due to lack of planning, use of inappropriate components, incorrect installation, poor administration or inadequate support can threaten an organization's effectiveness.

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Information technology — Data centre facilities and infrastructures — Part 5: Telecommunication cabling infrastructure

1 Scope

This document specifies design principles for information technology and network telecommunications cabling (e.g. SAN and LAN) in accordance with ISO/IEC 11801-5, based upon the criteria and classifications for "availability" and "physical security" within ISO/IEC 22237-1.

This document addresses the telecommunications cabling infrastructures used in data centres. It describes:

a) for design, the application of generic cabling standards in the ISO/IEC 11801 series;

b) for installation specification, planning and practices and quality assurance, the application of ISO/IEC 14763-2 (and related standards).

In addition, this document specifies requirements and recommendations for the following:

1) general information technology cabling to support the IT operation of the data centre;

2) telecommunications cabling to monitor and control, as appropriate, power distribution, environmental control and physical security of the data centre;

3) other building automation cabling;

4) pathways, pathway systems, spaces and enclosures for the telecommunications cabling infrastructures.

Safety and electromagnetic compatibility (EMC) requirements are outside the scope of this document and are covered by other standards and regulations. However, information given in this document can be of assistance in meeting these standards and regulations.

Conformance of data centres to the present document is covered in Clause 4.

2 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. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 11801-2, *Information technology — Generic cabling for customer premises – Part 2: Office premises*

ISO/IEC 11801-5, *Information technology — Generic cabling for customer premises – Part 5: Data centres*

ISO/IEC 11801-6, *Information technology — Generic cabling for customer premises – Part 6: Distributed building services*

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ISO/IEC 14763-2, *Information technology — Implementation and operation of customer premises cabling - Part 2: Planning and installation*

ISO/IEC 22237-1, *Information technology — Data centre facilities and infrastructures — Part 1: General concepts*

ISO/IEC 22237-2, *Information technology — Data centre facilities and infrastructures — Part 2:Building construction*

ISO/IEC 22237-3, *Information technology — Data centre facilities and infrastructures — Part 3: Power distribution*

ISO/IEC 22237-4, *Information technology — Data centre facilities and infrastructures — Part 4: Environmental control*

ISO/IEC 22237-6, *Information technology — Data centre facilities and infrastructures — Part 6: Security systems*

ISO/IEC 30129, *Information technology — Telecommunications bonding networks for buildings and other structures*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 22237-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp
— IEC Electropedia: available at https://www.electropedia.org/

3.1.1
application-specific cabling
structured cabling with a configuration and performance which is considered to provide a specific benefit for a single, or limited number of applications, as compared to generic cabling

3.1.2
cabinet
enclosed construction for housing closures and information technology equipment (see 3.1.16)

3.1.3
central patching location
passive cross-connect to connect different functional elements of a data centre

Note 1 to entry: A central patching location can be located in the main distribution area and/or the intermediate distribution area and is therefore a configuration of an MD and/or an ID in accordance with the cabling of ISO/IEC 11801-5.

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3.1.4
cross-connect
passive connection between cabling subsystems using a patch cord or jumper

[SOURCE: ISO/IEC 11801-1:2017, 3.1.38]

3.1.5
customer space
part of a cabinet, a cabinet, a cage or a computer room in a colocation data centre that customers can rent to host their ITE

3.1.6
entrance room
space that houses the external telecommunications provider equipment and that provides the demarcation points for the external telecommunications services

3.1.7
equipment outlet
fixed connecting device for terminating the zone distribution cabling and providing the interface to the equipment cord

[SOURCE: ISO/IEC 11801-5:2017, 3.1.3]

3.1.8
equipment distribution area
area served by LDP(s) and EO(s) of cabling and accommodating the LDP(s), EO(s), servers, storage device and other networking equipment and their connections to the EO(s)

Note 1 to entry: Cabling is in accordance with ISO/IEC 11801-5.

3.1.9
external network interface
termination point providing demarcation of external telecommunications service provision

[SOURCE: ISO/IEC 11801-1:2017, 3.1.44]

3.1.10
fixed cabling
cabling subsystem between closures which has either a peer-to-peer or hierarchical structure and which enables the installation of cross-connects or interconnects at those closures

3.1.11
floor distributor
distributor used to connect between the horizontal cable and other cabling subsystems or equipment

3.1.12
floor distribution area
area accommodating the FD(s) of cabling and associated transmission equipment

Note 1 to entry: Cabling in accordance with ISO/IEC 11801-2.

3.1.13
frame
open construction, typically self-supporting and floor-mounted, intended for housing closures and other telecommunications equipment

[SOURCE: ISO/IEC 14763-2:2019, 3.1.15]

3.1.14
generic cabling
structured telecommunications cabling system, capable of supporting a wide range of standardized applications

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Note 1 to entry: Application-specific hardware is not a part of generic cabling.

Note 2 to entry: Generic cabling can be installed without prior knowledge of the required applications.

[SOURCE: ISO/IEC 11801-1:2017, 3.1.48 – modified: Notes to entry added]

3.1.15
information technology equipment
equipment designed for the purpose of

a) receiving data from an external source (such as via network interface or via a keyboard);

b) performing processing and storage functions on the received data (such as computation, data transformation or recording, filing, sorting, storage, transfer of data);

c) providing a data output (either to other equipment or by the reproduction of data)

d) data network transport

3.1.16
interconnect
passive connection to a cabling subsystem not using a patch cord or jumper

[SOURCE: ISO/IEC 11801-1:2017, 3.1.54]

3.1.17
intermediate distributor
distributor used to make connections between the main distribution cabling subsystem, intermediate distribution cabling subsystem, network access cabling subsystem and cabling subsystems specified in ISO/IEC 11801-1 and active equipment

[SOURCE: ISO/IEC 11801-5:2017, 3.1.6]

3.1.18
intermediate distribution area
area accommodating the ID(s) of cabling and associated IT equipment

Note 1 to entry: Intermediate distributions areas (and IDs) are primarily used in larger data centres to enable data centre growth or to provide segmentation for specific applications.

Note 2 to entry: cabling in accordance with ISO/IEC 11801-5.

3.1.19
IT equipment
See 3.1.16

3.1.20
IT load
any active equipment providing data transport services, data processing or data storage inside the data centre

3.1.21
jumper
cable, cable unit or cable element without connectors used for a cross-connections

3.1.22
local distribution point
connection point in the zone distribution cabling subsystem between a zone distributor and an equipment outlet

[SOURCE: ISO/IEC 11801-5:2017, 3.1.7]

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3.1.23
network telecommunication equipment
equipment within the data centre that provides data transport services inside or outside the data centre

3.1.24
main distributor
distributor used to make connections between the main distribution cabling subsystem, network access cabling subsystem and cabling subsystems as specified in ISO/IEC 11801-1 and active equipment

Note 1 to entry: A central patching location located in a main distribution area is a specific configuration of a MD in accordance with the cabling of ISO/IEC 11801-5.

[SOURCE: ISO/IEC 11801-5:2017, 3.1.11 – modified: Note 1 to entry added]

3.1.25
main distribution area
area accommodating the main distributor(s) of cabling and associated transmission equipment

Note 1 to entry: A main distribution area can be in dedicated “main distributor space” or within the computer room of the data centre.

Note 2 to entry: Cabling in accordance with ISO/IEC 11801-5.

3.1.26
meet-me-room
space in a colocation data centre which enables the interconnection between data centre customer spaces and/or between data centre customer spaces and telecommunications providers

3.1.27
pathway
<cable route, cable way> defined route for cables between termination points

[SOURCE: ISO/IEC 14763-2:2019, 3.1.34]

3.1.28
pathway system
cable management system or other area or volume defined by markings or fittings used to protect and/or support the cabling in order that its desired performance is maintained

[SOURCE: ISO/IEC 14763-2:2019, 3.1.35]

3.1.29
point-to-point connection
direct connection of two pieces of IT equipment using a dedicated cable rather than a generic cabling system

3.1.30
premises entrance facility
facility that provides all necessary services, and which complies with all relevant regulations, for the entry of specific infrastructures or services into premises

[SOURCE: ISO/IEC 22237-1:2021, 3.1.27]

3.1.31
rack
open construction, typically wall-mounted, for housing closures and other telecommunications equipment

[SOURCE: ISO/IEC 14763-2:2019, 3.1.41]

3.1.32
structured cabling
telecommunications cabling comprising fixed cables between points of distribution at which

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equipment or other fixed cables can be connected

3.1.33
telecommunications provider
either an access provider or a service provider

Note 1 to entry: The term service provider is defined in ISO/IEC 14763-2:2019, 3.1.49.

3.1.34
zone distributor
distributor used to make connections between the main distribution cabling subsystem, intermediate distribution cabling subsystem, zone distribution cabling subsystem, network access cabling subsystem, cabling subsystems specified in ISO/IEC 11801-1 and active equipment

[SOURCE: ISO/IEC 11801-5:2017, 3.1.15]

3.1.35
zone distribution area
area accommodating the ZD(s) of cabling and associated transmission equipment

Note 1 to entry: Cabling in accordance with ISO/IEC 11801-5.

3.1.36
zone patching location
passive cross-connect to connect different functional elements of a data centre zone

Note 1 to entry: A zone patching location can be located in a zone distribution area and is therefore a specific configuration of a ZD in accordance with the cabling of ISO/IEC 11801-5.

3.2 Abbreviated terms

For the purposes of this document the following abbreviated terms apply:

BEF Building Entrance Facility

BD Building Distributor

C Connection

CD Campus Distributor

CFR Cabinet/Frame/Rack

CPL Central Patching Location

ENI External Network Interface

ER Entrance Room

EDA Equipment Distribution Area

EO Equipment Outlet

EoR End of Row

EQP Transmission Equipment

FDA Floor Distribution Area

FD Floor Distributor

IDA Intermediate Distribution Area

ID Intermediate Distributor

ICT Information & Communications Technology

IT Information Technology

ITE Information Technology Equipment

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LDP	Local Distribution Point
MDA	Main Distribution Area
MD	Main Distributor
MMR	Meet-Me-Room
MoR	Middle of Row
N/A	Not Applicable
NOC	Network Operating Centre
SO	Service Outlet
TE	Terminal Equipment
ToR	Top of Rack
ZDA	Zone Distribution Area
ZD	Zone Distributor
ZPL	Zone Patching Location

4 Conformance

For a data centre to conform to this document:

a) telecommunications cabling to support the IT operation of the data centre shall be in accordance with Clause 5, Clause 6 and ISO/IEC 11801-2;

b) telecommunications cabling for monitoring and/or control of power distribution, environmental control and physical security of the data centre shall be in accordance with Clause 5 and ISO/IEC 11801-6;

c) telecommunications cabling for information technology and network telecommunications to and within the computer room space of the data centre shall:

   1) be in accordance with Clause 5;
   2) be installed within an infrastructure, facilities and spaces meeting the requirements of Clause 6;
   3) meet the physical security aspects of Clause 7 and ISO/IEC 22237-6;
   4) have a design solution that meets the required Availability Class of Clause 8.

In addition:

d) the installation specification, quality assurance (including documentation) of the cabling shall be in accordance with ISO/IEC 14763-2 (subject to additional requirements of Clause 6);

e) installation planning and practices of the cabling shall be in accordance with ISO/IEC 14763-2;

f) telecommunications bonding networks for buildings and other structures shall be according to ISO/IEC 30129.

g) the designer of the telecommunications cabling for information technology and network telecommunications to and within the computer room space of the data centre shall coordinate the cabling design with the data centre network administrators regarding the network architecture, topology, physical locations and specific interfaces required to be supported.

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