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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 31240-2014

**Information technology -- Pathways and spaces for customer
premises cabling**

信息技术 用户建筑群布缆的路径和空间

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard uses the translation method identical with ISO/IEC 18010:2002 "Information technology for customer premises cabling pathways and spaces," and the ISO/IEC

18010:2002/Amd1.2005 Content "multi-user path and space" directly into the provisions of this standard. Amendments Terms have been involved through the vertical wire (||) its outer margin positions were marked.

This standard mainly to do the following editorial changes.

- Revised editorial errors;
- Increased use text abbreviations in Chapter 3, but not listed "EMC" "HD" and "PBX";
- Remove the 7.1 "following the path alphabetically sorted";
- 7.1, following the original meaning of the expression "and other safety rules for equipotential bonding and grounding of the metal path, see local law Regulation "was changed to" equipotential bonding and grounding metal should follow the path of safety relevant standards in China, "the standard for ease of use and real Shi lists relevant national standards in the footnotes;
- According to GB/T 1.1-2009 header in the format specified by modifying the header of the form table A.1.

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

- GB/T 2900.71-2008 Electrotechnical terminology of electrical equipment (IEC 60050-826:2004, IDT)
- GB 16895.6-2000 Electrical installations of buildings - Part 5. Selection and erection of electrical equipment Chapter 52. cabling system Commission (IEC 60364-5-52:1993, IDT)
- GB/T 16895.10-2010 low-voltage electrical installations Part 4-44. Protection for safety voltage electromagnetic harassment and harassment protection (IEC 60364-4-44:2007, IDT)
- GB 16895.21-2011 low-voltage electrical installations - Part 4-41. Protection for safety Protection against electric shock (IEC 60364-4-41. 2005, IDT)
- GB/T 18233-2008 Information technology generic customer premises cabling (ISO/IEC 11801:2002, IDT)
- Consistency correspondence with the IEC 61084 of the following documents.
 - GB/T 19215.1-2003 Electrical installation Cable trunking and ducting systems - Part 1. General requirements (IEC 61084-1. 1991 A1.1993, MOD)
 - GB/T 19215.2-2003 Electrical installation Cable trunking and ducting systems - Part 2.

Particular requirements - Section 1. for Mounted on a wall or ceiling Cable trunking and ducting systems (IEC 61084-2-1:1996, IDT) - GB 19215.3-2012 Electrical installation Cable trunking and ducting systems - Part 2. Particular requirements - Section 2. Installing the ground Plate and under floor flush cable trunking and ducting systems (IEC 61084-2-2:2003, IDT)

--- Consistency correspondence with the IEC 61386 of the following documents.

- GB/T 20041.1-2005 Conduit systems for electrical installations - Part 1. General requirements (IEC 61386-1:1996, IDT) - GB 20041.21-2008 Conduit systems for cable management - Part 21. Particular requirements for rigid conduit systems (IEC 61386-21:2002, IDT) Particular requirements for flexible conduit systems. - GB 20041.22-2009 cable management - Part 22 catheter system (IEC 61386-22:2002, IDT) - GB 20041.23-2009 Conduit systems for cable management - Part 23. Particular requirements for flexible conduit systems (IEC 61386-23:2002, IDT) - GB 20041.24-2009 Conduit systems for cable management - Part 24. Particular buried conduit system to Seek (IEC 61386-24:2004, IDT)

--- GB/T 29269-2012 Information technology - Residential generic cabling (ISO/IEC 15018:2004, IDT) Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard by the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This standard was drafted. China Electronics Standardization Institute, Tyco Electronics (Shanghai) Co., Ltd., Zhejiang, a boat Electronic Technology Shares Ltd., Daetwyler Cables Systems (Shanghai) Co., Ltd.

Introduction

Communication infrastructure is an essential part of building design. Communication infrastructure may include voice, data, environmental control, security Full, audio, television, sensing, alarm, paging and other low voltage limited power and signal systems. These systems change frequently. Path and space Between the design should accommodate this dynamic behavior. The standard design of other buildings and services, such as electricity, heating, ventilation and air conditioning (HAVC) Have a significant impact.

This standard does not recommend a specific telecommunications pathways and spaces design options. Failure to describe the pros and cons between the duct system and the system tray. By the power Designer based on the corresponding letter of application and limitations appropriate choice.

This standard does not give specific requirements for paths and space dimensions.

Readers should refer to the following documents.

- China's relevant regulations and standards;
- Telecommunications service provider rules;
- Manufacturers guidelines.

information Technology Customer premises cabling pathways and spaces

1 Scope

This standard specifies in accordance with ISO/IEC 11801 and ISO/IEC 15018 design provides for a building or building between the inner Structure and requirements of the path of the exchange of information and telecommunications cabling space.

This standard also affects the deployment of space inside the building. This standard takes into account single-family residential and commercial buildings and multi-dwelling.

This standard does not address safety aspects of building design and fire safety measures or require special security measures to telecommunications systems.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60050 (826) Information technology - Vocabulary Chapter 826. Building electrical installation (International Electrotechnical Vocabulary) Part 4-41 IEC 60364-4-41 Electrical installations of buildings. Protection for safety Protection against electric shock (Low-voltage electrical installations-Part 4-41.

Protection for safety-Protection against electric shock) IEC 60364-4-44 Part 4-44 Low-voltage electrical installations. security voltage disturbances and electromagnetic interference protection (Electrical installations of buildings-Part 4-44.

Protection for safety-Protection against voltage disturbances and electromagnetic disturbances) Part 5-52 Electrical installations of buildings IEC 60364-5-52. Electrical equipment selection and installation of cabling system (Electrical installations of buildings-Part 5.

Selection and erection of electrical equipment-Chapter 52. Wiring systems) IEC 61084 (all parts), electrical installations cable trunking and ducting systems

(Cable trunking and ducting systems for electrical installations) IEC 61386 (all parts) Conduit systems for cable management (Conduit systems for cable management) ISO/IEC 11801

Information technology - Generic cabling for customer premises

(Information technology-Generic cabling for customer premises) ISO/IEC 14763-1 Information technology for customer premises cabling implementation and operation - Part 1.

Management