

ICS 35.200
CCS L 65



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

GB/T 18233.2-2022

**Information technology - Generic cabling for customer
premises - Part 2: Office premises**

Issued on: October 14, 2022

Implemented on: May 1, 2023

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

foreword

Introduction

1 Scope

2 Normative references

3 Terms and Definitions

foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 2 of GB/T 18233 "General Cabling for Information Technology User Buildings". GB/T 18233 has been released

The following parts.

- Part 1. General requirements;
- Part 2. Office premises;
- Part 3. Industrial buildings;
- Part 5. Data Centers;
- Part 6. Distributed building facilities.

This document is revised and adopted ISO /IEC 11801-2.2017 "General Cabling for Information Technology User Buildings - Part 2. Offices"

Place".

Compared with ISO /IEC 11801-2.2017, this document has the following structural adjustments.

- Set 3.2 in ISO /IEC 11801-2.2017 as Chapter 4; subsequent chapter numbers will be extended in turn;
- Chapter 9 corresponds to Chapter 8 of ISO /IEC 11801-2.2017, and sets subclauses under 9.2.2.1 (see 9.2.2.1.1~9.2.2.1.3);

--- Delete the column items in the lower paragraph of Table 3.

The technical differences between this document and ISO /IEC 11801-2.2017 and their reasons are as follows.

--- Replaced ISO /IEC 14763-2 with the normative reference GB/T 34961.2 (see Chapter 3, Chapter 5, 6.5, 6.6.5.1 and

9.1), in order to adapt to the technical conditions of our country.

The following editorial changes have been made to this document.

--- Added symbols and abbreviations for BD, CD, CP, C, EQP, OEEQP, TE, TO (see Chapter 4) to improve the ease of documentation

usability;

--- Delete the abbreviation of PBX, because the abbreviation is not used many times in the text;

--- Deleted the explanatory text about the study to be studied (ffs);

--- Deleted the description of ISO and IEC standardized terminology;

--- incorporates the amendments to ISO /IEC 11801-2.2017/Cor.1.2018, in the outer margins of the clauses involved

The placement is marked with a vertical double line (||);

--- Replaced ISO /IEC 11801-6 (see Introduction) with GB/T 18233.6 cited for information.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 18233 "General Cabling for Information Technology User Buildings" is to guide the design of general cabling systems in specific types of buildings.

The compilation of GB/T 18233 is based on ISO /IEC 11801. According to ISO /IEC 11801, according to different building types and scenarios,

GB/T 18233 is intended to be composed of 6 parts.

--- Part 1. General requirements. The purpose is to provide the design basis for the general cabling system of the user's building complex, and to lay the cabling system for the specific place.

The design of the system provides a general reference.

--- Part 2. Office premises. The purpose is to provide a design basis for the general cabling

system in the office.

--- Part 3.Industrial complexes. The purpose is to provide the design basis of general cabling system for industrial buildings.

--- Part 4.Residential. The purpose is to provide the design basis for the general cabling system of the residence.

--- Part 5.Data Centers. The purpose is to provide a design basis for the general cabling system of the data center.

--- Part 6.Distributed building facilities. The purpose is to provide a design basis for a general cabling system for distributed building facilities.

The purpose of this document is to provide for the regulation of internal and inter-building in office premises, or between office spaces in other types of buildings.

General cabling requirements.

In addition, these venues can include.

--- Industrial space specified in GB/T 18233.3;

---Data center space specified in GB/T 18233.5.

The general cabling of distributed building facilities in office space is specified by GB/T 18233.6, which involves all the above types of places and space in it.

Figure 1 shows the overview and top-down of the information technology cabling-related standards formulated by ISO /IEC JTC1/SC25 and transformed in my country

Relations, including general cabling design standards, general cabling installation, operation and management standards and testing standards for installed general cabling.

Figure 1 The relationship between the general cabling documents formulated by ISO /IEC JTC1/SC25 and transformed in my country

This document.

- a) specifies a general cabling structure to support a wide variety of applications;
- b) The E, EA, F and FA level balanced cabling and links specified in GB/T 18233.1-2022 are adopted;
- c) Adopt the optical fiber cable channel and link requirements specified in GB/T 18233.1-2022;
- d) The component requirements specified in GB/T 18233.1-2022 are adopted, and it is specified to ensure that the performance of permanent links and channels meets or

exceeds

deployment methods required by specific application groups (eg tiers).

The life expectancy of a general cabling system depends on environmental conditions, supported applications, cable material, and other factors such as

Access (the campus path is more difficult to access than the building path). General cabling system life expectancy that meets the requirements of this document by selecting appropriate components

Life is more than 10 years.

General cabling for information technology user buildings

Part 2.Office Premises

1 Scope

This document specifies requirements for general cabling used in office premises, which may include single or multiple buildings in the park.

This document covers balanced cabling and fiber optic cabling.

This document applies to locations with telecommunications service wiring up to 2000m long. This file can also be used for larger installations.

The cabling specified in this document supports a wide range of services, including voice, data, video and power.

This document directly quotes or references GB/T 18233.1-2022.

- a) The structure and minimum configuration of general cabling in the office;
- b) interfaces for telecommunications sockets;
- c) performance requirements for cabling links and channels;
- d) implementation requirements and options;
- e) performance requirements for cabling assemblies;
- f) Compliance requirements and verification procedures.

Safety (such as electrical safety and protection and fire protection) and electromagnetic compatibility (EMC) requirements are covered by other standards and regulations and are not covered in this document

within the range. However, the information provided in this document may be helpful.

2 Normative references