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

GB/T 18233.3-2026

Replacing GB/T 18233.3-2018

**Information technology - Generic cabling for customer
premises - Part 3: Industrial premises**

信息技术 用户建筑群通用布缆 第3部分：工业建筑群

(English Translation)

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting is scheduled.

This document is Part 3 of GB/T 18233 "General Cabling for Information Technology User Building Complexes". GB/T 18233 has been published.

The following section.

--Part 1: General Requirements;

--Part 2: Office Space;

--Part 4: Residential Housing;

--Part 5: Data Center;

--Part 6: Distributed Building Facilities.

This document replaces GB/T 18233.3-2018 "General Cable Laying for Information Technology User Building Complexes - Part 3: Industrial Building Complexes", and is consistent with...

Compared to GB/T 18233.3-2018, apart from structural adjustments and editorial changes, the main technical changes are as follows.

--Added the terms "single-pair balanced cabling channel", "edge wiring area", "end-to-end link", "partition plate connection", and "segment" and their definitions (see...) 3.1.14~3.1.18).

--Change the terminology from "automation zone" to "automation island" (see 3.1.3, 2018 version) and from "floor patch panel" to "floor distribution panel".

The term "line area" (see 3.1.8, 2018 edition) and "intermediate patch panel" are both referred to as "intermediate wiring area" (see 3.1.10, 2018 edition).

3.1.10) and "Industrial intermediate distribution frame" are referred to as "Industrial intermediate distribution area" (see 3.1.11, 2018 edition of 3.1.11).

--Added support for single-pair balanced cabling in industrial building complex cabling (see Chapter 4, 5.6.2, 5.7.2, 5.7.6, 6.3.2, 7.2, 8.1,...).

8.2.1, 8.2.2, 9.2, 10.2.2.4, A.2, B.3, Appendix E);

--Added description of the bulkhead connector assembly (see B.3);

--Added E2E link configuration requirements (see Appendix D).

This document is modified to adopt ISO/IEC 11801-3:2021 "Information technology user building complex general cabling - Part 3: Industrial building cabling".

Building complex.

This document has undergone the following structural adjustments compared to ISO/IEC 11801-3:2021.

--The figure numbers have been changed to match the order in which the figures appear.

The technical differences between this document and ISO/IEC 11801-3:2021, and the reasons therefor, are as follows.

Appendix A, Appendix B, Appendix D, and Appendix E are provided to adapt to the current state of standards and technical conditions in my country.

--ISO/IEC 11801-2 (see Appendix A) has been replaced with the normatively referenced GB/T 18233.2 to adapt to the situation of Chinese standards.

Technical conditions;

--The normatively referenced GB/T 34961.2 replaces ISO/IEC 14763-2 (see Chapter 4, 5.5, 5.7.6, 8.1, B.1, D.2).

D.5), to adapt to my country's standards and technical conditions;

--ISO/IEC 14763-4 (see Annex B and Annex D) has been replaced with the normatively referenced GB/T 34961.4 to conform to Chinese standards.

Preliminary conditions and technical requirements;

--ISO/IEC 30129 (see Chapter 4) has been replaced with the normatively referenced GB/T 43783 to adapt to the current state of standards and technology in my country.

Technical conditions;

--Changed the single-pair cabling channel requirements up to 600 MHz, according to relevant information in ISO/IEC TR 11801-9906:2025.

The performance requirements have been updated (see Appendix E).

The following editorial changes have been made to this document.

--The description regarding the URL of the ISO and IEC standardization terminology database has been removed;

--Added abbreviations BD, EI, EMC, EQP, and TO (see 3.2);

--The abbreviation B has been changed to BC (see 3.2);

--The abbreviations AI and ffs have been removed (see section 3.2 of ISO/IEC 11801-3:2021 CSV).

--The variable "I" was changed to "L" (see Tables 3, 7, B.1, B.2, and C.1);

--Added informative reference IEC 61156-13 (see 8.2, 9.2);

--Added informative reference IEC 61156-14 (see 8.2, 9.2);

--The informative reference GB/T 36638 replaces ISO/IEC TS 29125 (see D.4);

--Replace ISO/IEC/IEEE 8802-3.2017/AMD4 with the informative reference ISO/IEC/IEEE 8802-3.2021.

(See Appendix E);

--IEEE 802.3cg has been replaced with ISO/IEC/IEEE 8802-3.2021/AMD5.2021 (see Appendix E) for informational reference;

--Added informative reference document IEEE 802.3dg (see Appendix E);

--IEC 62153-4-5 (see E.2.3) has been replaced by GB/T 31723.405 (see E.2.3), which is cited in the informational reference.

-- IEC 62153-4-14 (see E.2.3) has been replaced by GB/T 31723.414, which is cited in the informational reference.

-- IEC 61156-1 (see E.2.4) has been replaced by GB/T 18015.1, which is cited in the informational reference.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC 28).

Introduction

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

GB/T 18233 is based on ISO/IEC 11801. According to ISO/IEC 11801, different building types and scenarios are considered.

GB/T 18233 is proposed to consist of 6 parts.

--Part 1: General Requirements. The purpose is to provide a general design guideline for cabling systems in user building complexes, and to provide cabling solutions for specific locations.

The system design provides a general reference.

--Part 2: Office Space. The purpose is to provide a general design guide for cabling systems in office spaces.

--Part 3: Industrial Building Complexes. The purpose is to provide a general design basis for cabling systems in industrial building complexes.

--Part 4: Residential Buildings. The purpose is to provide a general design guide for cabling systems in residential buildings.

--Part 5: Data Centers. The purpose is to provide a general design guide for data center cabling systems.

--Part 6: Distributed Building Facilities. The purpose is to provide a general design guideline for cabling systems in distributed building facilities.

Information technology user building complex general cabling

1 Scope

This document specifies the general cabling requirements for industrial areas within industrial buildings or non-industrial buildings, which may be located in industrial parks.