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

GB/T 18015.8-2017

**Multicore and symmetrical pair/quad cables for digital communications -- Part 8:
Symmetrical pair/quad cables with transmission characteristics up to 1 200 MHz
-- Work area wiring sectional specification**

数字通信用对绞或星绞多芯对称电缆 第8部分：具有1200MHz及以下传输特性的
对绞或星绞对称电缆 工作区布线电缆分规范

(English Translation)

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Foreword

GB/T 18015 "Twisted pair or multi-core symmetrical cable for digital communications" has published or plans to release the following sections.

--- Part 1. General Specifications;

--- Part 2. Horizontal level wiring cable specification;

--- Part 3. Work area wiring cable specification;

--- Part 4. Vertical wiring cable specification;

--- Part 5. Conductor or twisted pair with 600MHz and below transmission characteristics Horizontal level cable distribution specification;

--- Part 6. 600MHz and below the transmission characteristics of the twisted pair or star

twisted symmetrical work area wiring cable points specification;

--- Part 7. Pair or twisted symmetrical cable with 1200MHz and below transmission characteristics Digital and analog communication cable points specification;

--- Part 8. Pair or twisted symmetrical cable with 1200MHz and below transmission characteristics Work area wiring cable points specification;

--- Part 11. Capability certification standards;

--- Part 21. Blanket specification of horizontal level cabling;

--- Part 22. Horizontal layer wiring cable capacity approval points specification;

--- Part 31. Work area wiring cables blank detail specification;

--- Part 32. Work area wiring cable capacity approval points specification;

--- Part 41. Blank detail specification for vertical wiring;

--- Part 42. Vertical cabling capacity approval of sub - standard.

This section GB/T 18015 Part 8.

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

This section uses the redrafted law to amend the use of IEC 61156-8:2013 "digital communication with twisted or twisted multi-core symmetric cable No. 8 Part 2. Workstation wiring cables with symmetrical pair or twisted pair cables of 1200 MHz and below transmission characteristics ".

This part of the structure compared with IEC 61156-8:2013 compared to more adjustment, Appendix A lists this part and IEC 61156-8.

2013 reg number control list.

This part of IEC 61156-8:2013 technical differences and the reasons are as follows.

--- Modify the reference color insulation documents, the "insulation color should be consistent with the requirements of IEC 60304" be amended to "Insulation color should be consistent with GB/T 6995.2 requirements ", priority reference to national standards and GB/T 6995.2 provisions of the insulation chromatography color and IEC 60304 is consistent (see 5.2.2, IEC 61156-8, version 5.2.2, 2013);

--- Increasing the coupling attenuation test method; the original text only specifies the absorption clamp method, according to China's actual application, an increase of three Coaxial method (see 6.2.8, version 6.2.8 of IEC 61156-8, version 2013).

This section made the following editorial changes.

--- Modify the insulation resistance unit, 5000Mohm · m to 5000Mohm · km (see 6.2.4, 2013

version of IEC 61156-8 of 6.2.4);

--- Replace a large number of suspension in the original text to "general requirements";

--- Suspended section "transmission performance test cable length requirements" adjusted to the general requirements (see 6.1, 2013 version of IEC 61156-8 6.3);

--- 6.3.11 return loss in the frequency range 1MHz ~ 1200MHz to 4MHz ~ 1200MHz, and Table 4 to maintain Consistent (see 6.3.11, version 6.3.11 of the 2013 IEC 61156-8);

--- The original "cable impact test, crash test, vibration test, insulation heat aging after the winding test, high temperature stress test jacket Test, thermal shock test, steady-state damp heat, salt spray and sulfur dioxide test, immersion "is not applicable to the deletion of this section (see 2013 version IEC 61156-8, 6.4.13, 6.4.14, 6.4.15, 6.5.2, 6.5.6, 6.5.8, 6.5.9, 6.5.12, 6.5.13).

This part is proposed by China Electrical Equipment Industry Association.

This part of the wire and cable standardization Technical Committee (SAC/TC213) centralized.

This section is drafted unit. Shanghai Electric Cable Research Institute Co., Ltd., Jiangsu Hengtong Cable Technology Co., Ltd., Shenzhen Lian Jiaxiang Technology Co., Ltd.

Co., Ltd., Zhejiang Zhengjian Cable Co., Ltd., Jiangsu East Strong Co., Ltd., Zhejiang Zhaolong Cable Co., Ltd., Huizhou Akihabara Industrial Co., Ltd.

Co., Ltd., China Information and Communication Research Institute, Suzhou Yongding Cable Technology Co., Ltd., Hangzhou Futong Wire and Cable Co., Ltd., Bao Sheng Technology New Co., Ltd.

1 Scope

GB/T 18015 provisions of this section 1200MHz and below transmission characteristics of twisted pair or twisted symmetrical cable installation conditions, timber Materials and Cable Structure, Performance and Requirements.

This section applies to GB/T 18233 and ISO/IEC 15018 defined in the buildings, equipment and work area used in the cable, up to Four pairs of cables can be used at the same time. The cable structure is 4 pairs of separate shielding pairs. The total shielding can be covered outside the cable core.

Note The cables specified in this standard apply to the voltage and current specified in the communication system and should not be used on low impedance power supplies such as public power supply systems.

This section GB/T 18015.1-2017 together with the use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 6995.2 wire and cable identification methods - Part 2. Standard colors Multicore and symmetrical pair/quad cables for digital communications - Part 1. Generic specification (IEC 61156-1).

2009, MOD)

GB/T 18233 Information technology users of buildings common cabling (GB/T 18233-2008, ISO/IEC 11801:2002, IDT) ISO/IEC 15018 Information Technology-Generic Cabling for Home (CIM) Test methods for metallic communication cables - Part 4-5. Electromagnetic compatibility (EMC) coupling or shielding attenuation Absorption clamp method
[Metaliccommuncabletestmethods-Part 4-5.Electromagneticcompatibility (EMC) -Couplingorscreeningattenuation-Absorbingclampmethod] Test methods for metallic communication cables IEC 62153-4-9 Part 4-9. EMC coupling Shielded symmetrical coupling of cables Co-attenuation three coaxial method
[Metaliccommuncablecabletestmethods-Part 4-9.Electromagneticcompatibil-ity (EMC) -Couplingattenuationofscreenedbalancedcables, triaxialmethod]

3 Terms and definitions

GB/T 18015.1-2017 defined terms and definitions apply to this document.

4.1 General requirements

Cable installation conditions should be consistent with the provisions of Chapter 4 of GB/T 18015.1-2017 requirements.