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

GB/T 18015.7-2017

**Multicore and symmetrical pair/quad cables for digital communications -- Part 7:
Symmetrical pair/quad cables with transmission characteristics up to 1 200 MHz
-- Sectional specification for digital and analog communication cables**

(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 7.

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 61156-7:2012 "Digital communications with twisted pair or multi-core symmetric cable twist cable Part 7. Specification for digital and analogue communication cables for symmetrical pair or quad cables with transmission characteristics up to 1200 MHz ".

This part of the structure compared with IEC 61156-7:2012 compared to more adjustment, Appendix A lists this part and IEC 61156-7.

2012 Chapter bar structure control list.

This section there are technical differences compared with IEC 61156-7:2012, the provisions of these differences have been passed in the outer margin of its margin the position of the vertical single (I) were marked in Appendix B is given a list of the corresponding technical differences and their causes.

This part is proposed by China Electrical Equipment Industry Association.

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

This part of the drafting unit. Shanghai Electric Cable Research Institute Co., Ltd., Zhejiang Zhaolong Cable Co., Ltd., Suzhou Yongding Cable Technology Co., Ltd., Zhejiang Zhengjian Cable Co., Ltd., Jiangsu East Co., Ltd., Jiangsu Hengtong Cable Technology Co., Ltd., Huizhou Akihabara Industrial Co., Ltd.

Company, Shenzhen Lian Jiaxiang Technology Co., Ltd., China Institute of Information and Communications, Hangzhou Futong Wire and Cable Co., Ltd., Baosheng Technology Innovation 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 a variety of communication systems and existing or developing analog systems, such as video systems used in the cable up to Four pairs of cables can be used at the same time. The structure of the cable is 4 pairs of separate shield pairs, which can be covered by the outer shield.

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 GB/T 11327.1-1999 Polyvinyl chloride insulated PVC sheathed low frequency communications cable wire - Part 1. General test and measurement Quantity method Multicore and symmetrical pair/quad cables for digital communications - Part 1. Generic specification (IEC 61156-1).

2009, MOD)

IEC 61156-7-1-2003 Digital communications - Twisted or twisted multi-core symmetrical cables - Part 7-1. Cables with 1200MHz and below Transmission characteristics of twisted pair or star symmetrical cables Digital and analog communication cables Blank detail specification (Multicoreandsymmetricalpair /quadcablesfordigitalcommunications-Part 7-1.Symmetricalpaircableswithtransmissioncharacteristicsup to1200MHz-Blankdetailspecificationfordigitalandanalogcommunicationcables) Test methods for metallic communication cables - Part 4-5. Electromagnetic compatibility (EMC) coupling or shielding attenuation Absorption clamp method [Metaliccommuncalcabletestmethods-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.