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

GB/T 18015.4-2025

Replacing GB/T 18015.4-2007

**Multicore and symmetrical pair/quad cables for digital
communications - Part 4: Riser cables - Sectional specification**

数字通信用对绞或星绞多芯对称电缆 第4部分：垂直布线电缆 分规范

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 4 of GB/T 18015 "Twisted or Star-Twisted Multi-Core Symmetrical Cables for Digital Communication". GB/T 18015 has been issued.

The following parts were laid out.

- Part 1: General Specifications;
- Part 11: General Specifications for Competency Accreditation;
- Part 2: Horizontal Cabling Cables with Twisted Pair or Star-Shaped Symmetrical Cables and Transmission Characteristics of 100MHz and Below specification;
- Part 21: Detailed Specifications for Blanking Cables in Horizontal Cabling Layers;
- Part 22: Horizontal Cabling Cable Capability Approval Specification;
- Part 3: Work Area Cabling Cable Specifications;
- Part 31: Detailed Specifications for Blank Cabling in Work Areas;
- Part 32: Work Area Cabling Capability Approval Specification;
- Part 4: Specifications for Vertical Cabling Cables;
- Part 41: Detailed Specifications for Vertical Cabling Cable Blanks;
- Part 42: Vertical Cabling Cable Capability Accreditation Specification;
- Part 5: Horizontal Cabling Cables with Twisted Pair or Star-Shaped Symmetrical Cables and Transmission Characteristics of 1000MHz and Below specification;
- Part 6: Work Area Cabling Cables for Twisted Pair or Star-Twisted Symmetrical Cables with Transmission Characteristics of 1000MHz and Below specification;
- Part 7: Twisted-pair or star-twisted symmetrical cables for digital and analog communication with transmission characteristics of 1200MHz and below specification;
- Part 8: Work Area Cabling Cables for Twisted Pair or Star-Shaped Symmetrical Cables with Transmission Characteristics of 1200MHz and Below specification.

This document replaces GB/T 18015.4-2007 "Digital Communication - Twisted Pair or Star-Twisted Multi-Core Symmetrical Cables - Part 4: Vertical Wiring Cables".

Compared with GB/T 18015.4-2007, the "Cable Distribution Specification" has the following main technical changes, apart from structural adjustments and editorial modifications.

- a) The cable configuration within the scope has been changed (see Chapter 1, 1.1 of the 2007 edition);
- b) Installation requirements have been changed (see Chapter 4, 1.3 of the 2007 edition);
- c) The requirements for the nominal diameter range of conductors have been changed (see 5.2.1, 2.2.3 of the 2007 edition);
- d) The PVC material has been removed from the insulation materials list (see section 2.2.4 of the 2007 edition);
- e) The shielding requirements for cable components have been changed (see 5.2.3.2, 2.2.7 of the 2007 version);
- f) The requirements for the braiding factor in the cable core shielding have been changed (see 5.2.5, 2.2.9 of the 2007 edition);
- g) An additional requirement has been added regarding the unbalanced resistance between wire pairs (see 6.2.2.2);
- h) The requirements for capacitor imbalance have been changed (see 6.2.6, 3.2.6 in the 2007 version);
- i) The transfer impedance requirements have been changed (see 6.2.7, 3.2.7 of the 2007 edition);
- j) Category 4 cables have been removed (see 3.3 in the 2007 edition);
- k) The phase delay requirements have been changed (see 6.3.2, 3.3.1.1 in the 2007 version);
- l) The phase delay difference requirement has been changed (see 6.3.2.2.1, 3.3.1.2 in the 2007 version);
- m) The temperature range for environmental impact has been changed (see 6.3.2.2.2, 3.3.1.2.1 in the 2007 version);
- n) The attenuation requirements have been changed (see 6.3.3, 3.3.2 in the 2007 version);
- o) The requirements for near-end crosstalk have been changed (see 6.3.5, 3.3.4 in the 2007 version);
- p) The requirements for remote crosstalk have been changed (see 6.3.6, version 3.3.5 of 2007);
- q) The characteristic impedance requirement has been changed (see 6.3.7, 3.3.6 in the 2007 edition);
- r) Structural return loss has been removed (see 3.3.7 in the 2007 edition);
- s) The return loss requirements have been changed (see 6.3.8, 3.3.7 in the 2007 edition);