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

GB/T 34961.3-2017

**Information technology -- Implementation and operation of
customer premises cabling -- Part 3: Testing of optical fibre
cabling**

信息技术 用户建筑群布缆的实现和操作 第3部分：光纤布缆测试

(English Translation)

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Foreword

GB/T 34961 "information technology user building cabling implementation and operation" includes the following sections.

- Part 1. Management;
- Part 2. Planning and installation;
- Part 3. Optical fiber cable test;
- Part 4. End-to-end link test.

This section GB/T 34961 Part 3.

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

This section uses the translation method is equivalent to using ISO/IEC 14763.3:2014 "information technology user building cabling implementation and operation Part 3. Fiber Optic Cable Testing "and ISO/IEC 14763.3:2014 Technical Corrigendum 1.2015.

The documents of our country that are consistent with the corresponding international documents that are normative references in this section are as follows.

- GB/T 18233-2008 Information technology users building general cabling (ISO/IEC 11801:2002, IDT)
- GB/T 29269-2012 Information Technology Residential Common Cable (ISO/IEC 15018:2004, IDT) this standard made the following editorial changes.
- Removed "ffs (to be studied)" content.

This standard directly into ISO/IEC 14763.3:2014/Technical Corrigendum 1.2015 content, the corresponding provisions of the margin outside the margin the position is marked by a vertical double line (||).

Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal point.

This section drafted by. China Electronics Standardization Institute, Shenzhen Special Equipment Safety Inspection Institute, Shenzhen West Information Technology Co., Ltd., Chengdu Corning Cable Co., Ltd. Shanghai Optical Cable System Branch, Love Kosovo Communication Technology (Beijing) Co., Ltd., Wuxi Network Industry Research Institute, Xi'an Kaiyuan Electronic Industrial Co., Ltd., Shandong Province Computing Center (National Supercomputing Jinan Center).

Introduction

This section is one of the four existing standards supporting ISO/IEC 11801 and other cabling standards.

Figure 1 shows this part of the ISO/IEC 11801, other cabling international standards and cabling related standards.

Figure 1 standard relationship diagram

ISO/IEC 14763-3 specifies the inspection and testing procedures for optical fiber cabling as well.

- a) Conforming to the cabling standards for buildings such as ISO/IEC 11801, ISO/IEC 24764, ISO/IEC 24702 and ISO/IEC 15018 Required fiber optic cabling design; and
- b) Fiber optic cable installation according to ISO/IEC 14763-2 requirements and recommendations.

Users in this section should be familiar with the relevant building group cabling standards and ISO/IEC 14763-2.

Each installed quality plan should clearly define the acceptance test and sampling level it chooses. Quality plan requirements and recommendations in ISO/IEC 14763-2 stipulated.

Note: JTC1/SC25, in cooperation with IEC/TC86, is currently studying a totalization model to estimate as expressed in the ISO/IEC 11801 reference implementation Overall uncertainty. Once this model has been validated, it can be incorporated into this section by way of an amendment to eliminate the current designation "ffs" (to be studied) Terms.

Implementation and Operation of Information Technology Users' Building Cluster Cables
Part 3. Fiber Optic Cable Testing

1 Scope

GB/T 34961 provisions of this part of ISO/IEC 11801, ISO/IEC 24764, ISO/IEC 24702 and ISO/IEC 15018 and other building cabling standards designed fiber cabling system for testing methods. These methods refer to the existing standards-based the rules.

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.

ISO/IEC 11801 information technology users building general cabling
 (Informationtechnology-Genericcablingfor customerpremises ISO/IEC 15018 Information Technology Generic cabling (Informationtechnology-Genericcablingforhomes) ISO/IEC 24702 Information Technology - Genericcabling-Industrialpremises) ISO/IEC 24764 Information Technology-Genericcabling systemsfordatacentres ISO/IEC 14763-2 Information technology - User cabling operation and implementation - Part 2. Planning and installation (Informationtechnology-Implementation and operating of customer premvisioncabling-Part 2: Planningand instalationl) International Electrotechnical Vocabulary, Chapter 731. Optical fiber communications (IEC 60050-731, International electrotechnicalvocabulary-Chapter731.Opticalfibrecommunication) IEC 60825-2 Laser Product Safety Part 2. Optical Communication Systems [Safetyoflaserproducts-Part 2: Safety of optical fiber communications systems (OFCS)] IEC 60874-14-3 Fiber Optic Cable Connectors Part 14-3. SC Type Fiber Optic Adapter (Single Mode) for Single Mode Fiber Details Fine Specifications (Connectors for optical fiber and parts-Part 14-3. Dedicated Specification for fibreoptic adapter (simplex) typeSCforsingle-modefibre) IEC 60874-19-1 Optical fiber cable connectors Part 19-1. Types SC-PC terminated on multimode fiber types A1a, A1b Fiber Jumper Connectors Detail Specification [Connectorsforopticalfibresandcables-Part 19-1.Fibreopticpatchcord-connectortypeSC-PC (floatingduplex) standardterminatedonmultimodefibertypeA1a, A1b-Details] IEC 61280-1-4 Fiber Optic Communication Subsystem Testing Procedures Part 1-4 General Purpose Communication Subsystem Measurements of light flow around sources (Fibreopticcommunicationsubsystemtestprocedures-Part 1-4. General Communications Engineers-tems-Lightsourceencircledfluxmeasurementmethod) IEC 61280-4-1, Optical fiber communication subsystem test procedures - Part 4-1 - Optical fiber line and link multimode fiber line attenuation test (Fibreoptic communicationsubsystemtestprocedures-Part 4-1 .Cableplantandlinks -Multimode fiber-opticcableplantattenuationmeasurement)