Chinastandards.org

ICS 33.120.10
CCS L 26

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 17738.3-2013

Replacing GB/T 16531-1996

Radio frequency and coaxial cable assemblies -- Part 3: Sectional specification for semi-flexible coaxial cable assemblies

射频同轴电缆组件 第3部分：半柔同轴电缆组件分规范

(English Translation)

Issued on: December 17, 2013 **Implemented on: June 15, 2014**

Issued by: Standardization Administration of China

Preview: page 1 of 5 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-17738-3-2013

Chinastandards.org

Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
4 1 Design and construction requirements
5 Processing quality, marking and packaging
6 Quality Assessment
7 General Test Method
8 Electrical Test
9 Mechanical Strength Test
10 Environmental Test
11 Specific test methods
6 12 test schedule

Foreword

GB/T 17738 "RF coaxial cable assembly" is divided into the following sections.

--- Part 1. Generic specification and test methods - General requirements;

--- Part 2. Sectional specification for flexible coaxial cable assemblies;

--- Part 3. semi-flexible coaxial cable assemblies;

--- Part 4. semi-rigid coaxial cable assemblies;

This section GB/T 17738 Part 3.

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

This Part replaces GB/T 16531-1996 "RF coaxial cable assemblies - Part 3. Sectional specification for semi-flexible coaxial cable assemblies." this portion of the GB/T 16531-1996, compared the main technical changes are as follows.

--- Remove the division of the article;

--- The "Range" and "purpose" into the "scope" (see Chapter 1, GB/T 16531-1996 in Chapters 1 and 2);

--- "Normative references" added the corresponding national standards (see Chapter 2);

Preview: page 2 of 5 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-17738-3-2013

Chinastandards.org

--- Deleted the definition of a direct reference to the GB/T 17738.1-2013 terminology and definitions (see Chapter 3, GB/T Chapter 316531-1996's);

--- Increasing the length of the cable assembly and the definition of the legend (see 4.3);

--- Added "processing quality, marking and packaging" and "quality assessment" (see Chapters 5 and 6);

--- Remove the phase varies with temperature (see GB/T 16531-1996 in 9.8);

--- Remove the test voltage preferred value (see GB/T 16531-1996 in 9.10.1);

--- Increased vibration test method (see 10.2.1);

--- Deleted Specific test methods for the content, direct reference to GB/T 17738.1-2013 specified (see Chapter 11, GB/T Chapter 1216531-1996's);

--- The "bending fatigue" to "bend durability" (see 9.3, GB/T 16531-1996 10.3);

--- The "Torque" to "reverse" (see Table 1 and Table 2, GB/T 16531-1996 12.2);

--- The "repeated bending" to "multiple bend" (see Table 1 and Table 2, GB/T 16531-1996 12.3);

--- Added "Resistance to solvents and contaminating fluids", "dust test" and "flammable" pilot project (see Tables 1 and 2);

--- Increasing the ability to choose the identification element (CQCs) guidelines (see 12.3).

This section uses the translation method is equivalent to using IEC 60966-3:2008 "RF coaxial cable assemblies - Part 3. semi-flexible coaxial cable assemblies Specification. " this part made the following editorial changes.

--- Remove the IEC foreword;

--- Delete the reference standard IEC 60096-2 (see IEC 60966-3:2008, Chapter 2 and 4.1);

--- The IEC of "greater than or equal to the length of cable 300mm" amended to "greater than or equal to the length of 300mm electric Cable assembly ", the" less than 300mm for the length of the cable "be amended to read" For less than 300mm length cable assembly "(see 4.3);

--- The IEC of "flexible cable" is corrected to "semi-flexible cable" (see Chapter 1, Figure 2,12.3.2, Figure 4).

--- In the IEC "cable portion of the cable assembly should be subjected to vibration in each direction three vertical" is corrected to "Cable Assemblies shall be subjected to vibration in each direction three vertical "and corresponding amendments vibration test arrangement (see 10.2.1.1 and Fig. 3).

Consistency correspondence between this part of international documents and normative

Preview: page 3 of 5 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-17738-3-2013

references of our files are as follows.

--- GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT)

--- GB/T 11313 (all parts) RF connectors [IEC 61169 (alparts)]

--- GB/T 17737 (all parts) Coaxial communication cables [IEC 61196 (alparts)] Please note that some of the content of this section may involve patents. This part of the release mechanism does not assume the responsibility to identify these patents.

This part is proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This section is under the jurisdiction of the National electronic equipment with a high-frequency cables and connectors Standardization Technical Committee (SAC/TC190).

This section is drafted. Tianjin Cable Co., Ltd. Liu - Jiu.

1 Scope

GB/T 17738 provisions of this part of the semi-flexible coaxial cable assemblies by a semi-flexible coaxial cable and coaxial connector component (hereinafter He said cable assemblies) Uniform Requirements for electrical, mechanical and environmental performance testing.

This part semi-flexible coaxial cable assemblies suitable for transmitting transverse electromagnetic (TEM) of.

Note 1: For this section, always a cable assembly as a whole unit. All regulations apply only to the finished component does not apply to single and unassembled Complete sets of parts.

Note 2: This section is supplemented by detailed specification, detail specification shall specify the additional details required for the application, the application is not necessary for the specific requirements of all Test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 17738.1-2013 RF coaxial cable assemblies - Part 1. Generic specification - General requirements and test methods (IEC 60966-1:1999, IDT) GB/T 19000-2008 Quality Management System - Fundamentals and vocabulary (ISO 9000:2005, IDT) IEC 60068-2-6 Environmental testing - Part 2-6. Tests - Test Fc. Vibration (sinusoidal) (Environmentaltesting-Part 2-6. Tests-TestFc. Vibration (sinusoidal)) IEC 60410 inspection

Preview: page 4 of 5 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-17738-3-2013

by sampling plans and procedures (Samplingplansandproceduresforinspectionbyattrib-utes) IEC 61169 (alparts) RF connectors (Radio-frequencyconnectors) IEC 61196 (alparts) Coaxial communication cables (Coaxialcommunicationcables) IEC QC001002 (alparts) IEC Quality Assessment System for Electronic Components (IEC Q) - Rules of Procedure (IEC QualityAs-sessmentSystemforElectronicComponents (IEC Q) -Rulesofprocedure)

3 Terms and Definitions

Terms and definitions GB/T 17738.1-2013 defined apply to file.

4 Design and construction requirements

Except for the following provisions, GB/T 17738.1-2013 Chapter 4 apply.

Content with.

4.1 Cable design and structure

Cables should comply with the provisions of IEC 61196. When these standards need to be different cable design, they should comply with detailed specifications

Preview: page 5 of 5 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-17738-3-2013