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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 17738.2-2013

Radio frequency and coaxial cable assemblies -- Part 2: Sectional specification for flexible coaxial cable assemblies

射频同轴电缆组件 第2部分：柔软同轴电缆组件分规范

(English Translation)

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Foreword

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

--- Part 1. General requirements and test methods for general specifications;

--- Part 2. Soft coaxial cable assembly sub-specification;

--- Part 3. Sub-standard for semi-flexible coaxial cable assemblies;

--- Part 4. Sub-standards for semi-rigid coaxial cable assemblies; This part is the second part of GB/T 17738.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 15866-1995 "RF coaxial cable assemblies - Part 2-1. Soft RF coaxial cable assemblies. Fan.

The main technical changes in this section compared with GB/T 15866-1995 are as follows.

--- The division of the withdrawal article;

--- Combine "1 Scope" and "2 purpose" in GB/T 15866-1995 into "1 Scope" (see Chapter 1, GB/T 15866-1995 Chapters 1 and 2);

--- The corresponding national standards have been added to the "normative references"

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(see Chapter 2);

--- Removed the "4 definition", "9.6 electrical length stability", "9.7 phase difference", "9.8 phase change with temperature" repeated with the general specification ", 12.1 flammability" (see GB/T 15866-1995);

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

--- Added "Processing Quality, Marking and Packaging" and "Quality Assessment" (see Chapters 5 and 6);

--- Added "Capability Approval Process" (see 12.3).

This section uses the translation method equivalent to IEC 60966-2-1:2008 "RF coaxial cable assemblies - Part 2-1. Soft RF coaxial Cable assembly sub-specification. This section has made the following editorial changes.

--- Amend the IEC "for cables longer than or equal to 300mm" to "for electricity with a length greater than or equal to 300mm "Cable assembly"; "For cables less than 300mm" is amended to "For cable assemblies less than 300mm" (see 4.3).

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

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

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

---GB/T 17737 (all parts) RF cable [IEC 61196 (alparts)];

---GB/T 19000-2008 Quality Management System Foundation and Terminology (ISO 9000:2005, IDT).

1 Scope

This part of GB/T 17738 specifies a flexible coaxial cable assembly consisting of a flexible coaxial cable and a coaxial connector (hereinafter referred to as Cable assemblies) Uniform requirements for electrical, mechanical and environmental performance testing.

This section applies to flexible coaxial cable assemblies that transmit transverse electromagnetic mode (TEM).

Note 1: This part of the cable assembly is always considered as a unit. All regulations apply to finished components and are not suitable for single, unassembled Components.

Note 2: This part should be supplemented by detailed specifications, which should specify additional details required for specific applications, and do not require specific requirements for specific applications. Some trials.

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2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Radio frequency coaxial cable assemblies - Part 1. General specification and test methods (IEC 60966-1:1999, IDT)

GB/T 19000-2008 Quality Management System - Foundation and Terminology (ISO 9000:2005, IDT)

IEC 60068-2-6 Environmental testing - Part 2-6. Test test Fc. Vibration (sinusoidal) (Environmental testing - Part 2-6. Tests- TestFc. Vibration(sinusoidal))

IEC 60410 count check sampling plan and program (Samplingplansandproceduresforinspectionbyattrib- Utes)

IEC 61169 (alparts) RF connectors (Radio-frequencyconnectors)

IEC 61196 (alparts) RF Cables (Coaxialcommunicationcables)

IEC QC001002 (alparts) IEC Electronic Component Quality Assessment System (IEC Q) Rules of Procedure (QualityAssessment SystemforElectronicComponents(IEC Q-Rulesofprocedure)

3 Terms and definitions

The terms and definitions defined in GB/T 17738.1-1999 apply to this document.

4 Design and manufacturing requirements

Chapter 4 of GB/T 17738.1-2013 is applicable. Replace the content with.

4.1 Cable design and structure

The cable should comply with IEC 61196. When cable designs other than these standards are required, they should conform to detailed specifications. Claim.

Manufacturers may use additional protective tubes or cables other than IEC 61196 when required to meet detailed specification requirements.

The materials used for the cable shall be given as engineering data in the detailed specification.

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4.2 Connector design and structure

The connector should be in accordance with IEC 61169. When a connector design different from IEC 61169 is required, the interface should conform The corresponding part of IEC 61169 (when applicable) shall meet the requirements of the detailed specification.

The materials used in the connectors shall be given as engineering data in the detailed specifications.

4.3 Shape and interface dimensions

The shape and interface dimensions shall be in accordance with the detailed specifications of the cable assembly.

The length is defined as the distance between the reference plane of the two connectors and the reference plane, unless otherwise specified in the detailed specification. For right angle connectors, length It is the axis to the right angle connector (as shown in Figure 1).

If not specified in the detailed specification, the length tolerance is ±1% for cable assemblies with a length greater than or equal to 300 mm; for small For 300mm cable assemblies, the length tolerance is ±3mm.

5 Processing quality, marking and packaging

Except as provided below, the provisions of Chapter 5 of GB/T 17738.1-2013 apply.

5.2 Mark

supplement.

The cable assembly manufactured in accordance with this section consists of a length of cable and two connectors. Cable assemblies are also available when specified in the detailed specification To include the identification of components and interconnects (see Figure 2). Terminal caps and other accessories can also be specified.

Note: Sometimes the cable assembly consists of only a length of cable and a connector. a When specified.

6 Quality assessment

Chapter 6 of GB/T 17738.1-2013 is applicable.

7 General test methods

Chapter 7 of GB/T 17738.1-2013 is applicable.

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