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GB/T 17738.2-2013 / IEC 60966-2-1:2008

Replacing GB/T 15866-1995

**Radio Frequency and Coaxial Cable Assemblies -
Part 2: Sectional Specification for Flexible Coaxial
Cable Assemblies**

(IEC 60966-2-1:2008, IDT)

射频同轴电缆组件 第2部分：柔软同轴电缆组件分规范

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Foreword

GB/T 17738 *Radio Frequency and Coaxial Cable Assemblies* can be divided into the following parts:

- Part 1: Generic Specification – General Requirements and Test Methods;
- Part 2: Sectional Specification for Flexible Coaxial Cable Assemblies;
- Part 3: Sectional Specification for Semi-Flexible Coaxial Cable Assemblies;
- Part 4: Sectional Specification for Semi-Rigid Coaxial Cable Assemblies.

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This Part is Part 2 of GB/T 17738.

This Part was drafted as per the rules specified in GB/T 1.1-2009.

This Part replaced GB/T 15866-1995 *Radio Frequency and Coaxial Cable Assemblies Part 2-1: Sectional Specification for Flexible Coaxial Cable Assemblies*.

Compared with GB/T 15866-1995, this Part has the major technical changes as follows:

- Divide the canceling part;
- Combine “1 Scope” and “2 Objective” in GB/T 15866-1995 into “1 Scope” (see Clause 1 of this Edition; Clauses 1 and 2 in GB/T 15866-1995);
- Add the corresponding national standards in the Normative References (See Clause 2 of this Edition);
- Delete the “4 Definition”, “9.6 Electrical length stability”, “9.7 Phase difference”, “9.8 Phase change with temperature”, “12.1 Flammability” (see GB/T 15866-1995);
- Add the definition and legend for cable assembly length (see 4.3 of this Edition);
- Add “Workmanship, Marking and Packaging” and “Quality Assessment” (see Clauses 5 and 6 of this Edition);
- Add “Capability approval procedures” (see 12.3 of this Edition).

This Part uses the translation method to equivalently adopt IEC 60966-2-1:2008 *Radio Frequency and Coaxial Cable Assemblies – Part 2-1: Sectional Specification for Flexible Coaxial Cable Assemblies*.

This Part made the editorial modifications as follows:

- Modify “for the cable with length greater than or equal to 300mm” in IEC into “for the cable assemblies with length greater than or equal to 300mm”; and modify “for the cable less than 300mm” into “for the cable assemblies less than 300mm” (see 4.3).

The Chinese documents that have a correspondence relationship with the international standards quoted in the Normative References of this Part are as follows:

- GB/T 2423.10-2008 Environmental Testing for Electric and Electronic Products – Part 2: Tests – Test Fc: Vibration (Sinusoidal) (IEC 60068-2-6:1995, IDT);
- GB/T 11313 (all parts) Radio-Frequency Connectors [IEC 61169 (all parts)];
- GB/T 17737 (all parts) Coaxial Communication Cables [IEC 61196 (all parts)];
- GB/T 19000-2008 Quality Management Systems – Fundamentals and Vocabulary (ISO 9000:2005, IDT).

Please note some contents of this Part may involve the patents. The issuing agency of this Part does not assume the responsibility to identify these patents.

This Part was proposed by Ministry of Industry and Information Technology of PRC.

This Part shall be under the jurisdiction of National Technical Committee on High-Frequency Cable and Connector Standardization of China (SAC/TC 190).

Drafting organization of this Part: Xi'an Forstar S&T Co., Ltd.

Chief drafting staffs of this Part: Zhan Shisheng, Wu Xiangwen, and Wu Zhengping.

The historical edition replaced by this Standard is as follows: GB/T 15866-1995.

Radio Frequency and Coaxial Cable Assemblies - Part 2: Sectional Specification for Flexible Coaxial Cable Assemblies

1 Scope

This Part of GB/T 17738 specifies uniform requirements for testing the electrical, mechanical and climatic properties of flexible coaxial cable assemblies (hereinafter referred to as cable assemblies) composed of flexible coaxial cables and coaxial connectors.

This Part is applicable to the flexible coaxial cable assemblies operating in the transverse electromagnetic mode (TEM).

NOTE 1: For the purposes of this sectional specification, a cable assembly is always regarded as an integral unit. All specifications apply to the finished assembly and not to individual and non-assembled parts thereof.

NOTE 2: This sectional specification should be supplemented with detail specifications giving additional details as required by the particular application. This application will not necessarily require all tests.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 17738.1-2013 Radio Frequency and Coaxial Cable Assemblies - Part 1: Generic Specification - General Requirements and Test Methods (IEC 60966-1:1999, IDT)

GB/T 19000-2008 Quality Management Systems – Fundamentals and Vocabulary (ISO 9000:2005, IDT)

IEC 60068-2-6 Environmental Testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)

IEC 60410 Sampling Plans and Procedures for Inspection by Attributes

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Accountable person and shareholder: Wayne Zheng

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