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

GB/T 17738.1-2013

**Radio frequency and coaxial cable assemblies -- Part 1: Generic
specification -- General requirements and test methods
(English Translation)**

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Foreword

GB/T 17738 "Radio frequency and coaxial cable assemblies" is 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;

This Part is Part 1 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 17738.1-1999 "Radio-frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods".

Compared with GB/T 17738.1-1999, the main technical changes in this Part are as follows:

- COMBINE "Scope" and "Object" into "Scope" (see clause 1; clauses 1 and

2 of the 1999 edition).

- ADD procedures for capability approval (see E.3.2).
- Delete Annex A Measurement method of reflection factor (see Annex A of the 1999 edition).
- ADD requirement and calculation method for the number of measurement points (see 8.1).
- In the test for stability of electrical length, add two test methods of bending and twisting (see 8.6.2.1 and 8.6.2.2).
- Delete discharge test (corona test) (see 9.13).
- ADD the test method for power rating (see 8.14).
- ADD intermodulation level (see 8.15).
- ADD torque (see 9.5).
- ADD multiple bending (see 9.6).

- ADD abrasion test of cable assembly (see 9.7).
- In salt mist and sulphur dioxide tests, add "Requirements" (see 10.8) and "Information to be given in the detail specification" (see 10.8.3).
- ADD dust tests (10.9).
- ADD flammability (see 10.10).

This Part, using translation method, is identical to IEC 60966-1:1999 "Radio frequency and coaxial cable assemblies - Part 1: Generic specification - General requirements and test methods".

This Part has made the following editorial changes:

- ADD the number of formulas in the annex and correct the error parts of formula (A.1) and formula (C.1)~formula (C.4).
- ADD "Table C.1 Symbols" to Annex C, to clarify the meaning of the symbols in each formula.
- ADD Annex F (informative), Naming of type number, to provide parameters for industry naming.

The documents of China which have a consistent correspondence with the international documents normatively referenced in this Part are as follows:

- GB/T 11313 (all parts) Radio-frequency connectors [IEC 61169 (all parts)]
- GB/T 17737 (all parts) Coaxial communication cables [IEC 61196 (all parts)]

Attention is drawn to the possibility that some of the elements of this Part may be the subject of patent rights. The issuing authority of this Part shall not be held responsible for identifying any or all such patent rights.

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

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

Drafting organization of this Part: China Electronics Standardization Institute.