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

GB/T 17737.201-2015

**Coaxial communication cables -- Part 1-201: Environmental test
methods -- Test for cold bend performance of cable**

同轴通信电缆 第1-201部分：环境试验方法 电缆的冷弯性能试验

(English Translation)

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Foreword

GB/T 17737 "Coaxial communication cables" Environmental Test Methods section or plan to release the following sections.

- Part 1-200. Environmental test methods - General requirements;
- The first part 1-201. Environmental test methods for cold bending performance test cables;
- Section 1-203. Environmental test methods for cables seepage test;
- The first part 1-205. Environmental test methods and solvent contaminated fluid test;
- Section Part 1-206. Environmental test methods for cables climatic sequence of tests;
- Section 1-208. Environmental test methods for cables longitudinal pressure test.

This section GB/T Part of 1-20117737.

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

2009 "Coaxial communication cables - Part 1-201.. Environmental test methods in this section use the translation method using equivalent IEC 61196-1-201 Cold bending properties of the cable test. " this part made the following editorial changes.

- In Chapter 1, "scope" in "CATV and telecom cables" to "communication cable";
- In Chapter 2, "Normative references" removed "IEC 60050-726" number of years;
- Increase the standard's reference number (see Chapter 3, 4.4,5.1,5.3,6.1,6.4);
- Increasing the "PE" and "PVC" the Chinese name (see 4.4,6.4);

--- Revised Figure 1 (see Figure 1).

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of 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 drafted by. China Electronics Technology Group Corporation No. 23 Research Institute.

1 Scope

GB/T 17737 apply to this part of the communication cable, test method provides for coaxial communication cables forming performance.

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 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1:2007, IDT) GB/T 17737.1-2013 Coaxial communication cables - Part 1. Generic specification - General, definitions and requirements (IEC 61196-1:2005, IDT) IEC 60050-726 International Electrotechnical Vocabulary transmission lines and waveguides
(Internationalelectrotechnicalvocabulary-Transmissionlinesandwaveguides)

3 Terms and Definitions

Terms and definitions IEC 60050-726 and GB/T 17737.1-2013 defined apply to this document.

4 A method for forming performance test ---

4.1 General

This program is designed to provide flexible coaxial cable forming performance measurement program.

4.2 Test device

Environmental chambers that can accommodate the vertical dimension of the lumen sample, and has the ability at the temperature specified in the relevant cable standard to maintain the 24h.

Test mandrel diameter of 10 times the cable diameter. For example, the cable outer diameter of 7.5mm, a test mandrel diameter should be 75mm.

4.3 Sample

Cable sample length should be long enough to complete four laps wound on the mandrel.

4.4 Test Method

One end of the cable specimen should be caught to the mandrel, the mandrel having a diameter of the cable under test specimen 10 times the nominal diameter. The cable sample on the mandrel intact Winding a circle, and the use of a mechanical device to secure it. Samples shall GB/T 2423.1-2008 Test provision of cooling Ab; polyvinylchloride (PVC) was cooled to -40 °C; polyethylene (PE) was cooled to -55 °C, holding time is not less than 2h. During the conditional processing, cable sample volume that is not About the section should remain straight state by the end of the cable sample hanging light objects (1kg ~ 2kg) implement (see Figure 1).