

Translated English of Chinese Standard: GB/T17737.103-2018

www.ChineseStandard.net → Buy True-PDF → Auto-delivery.

Sales@ChineseStandard.net

GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 33.120.10

L 26

GB/T 17737.103-2018 / IEC 61196-1-103:2015

Coaxial Communication Cables – Part 1-103: Electrical Test Methods – Test for Capacitance of Cable

(IEC 61196-1-103:2015, IDT)

同轴通信电缆 第 1-103 部分：电气试验方法 电缆的电容试验

Issued on: March 15, 2018

Implemented on: October 01, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of PRC.**

Table of Contents

Foreword.....	3
1 Scope.....	5
2 Normative References	5
3 Terms and Definitions	5
4 Test Methods	5
5 Expression of Test Results.....	6
6 Test Report	6
7 Requirements	7

Foreword

GB/T 17737 *Coaxial Communication Cables* has been or plans to issue the following parts:

- Part 1: Generic Specification – General, Definitions, Requirements and Test Methods;
- Part 1-100: Electrical Test Methods – General Requirements;
- Part 1-101: Electrical Test Methods – Test for Conductor D.C. Resistance Cable;
- Part 1-102: Electrical Test Methods – Test for Insulation Resistance of Cable Dielectric;
- Part 1-103: Electrical Test Methods – Test for Capacitance of Cable;
- Part 1-104: Electrical Test Methods – Test for Capacitance Stability of Cable;
- Part 1-105: Electrical Test Methods – Test for Withstand Voltage of Cable Dielectric;
- Part 1-106: Electrical Test Methods – Test for Withstand Voltage of Cable Sheath;
- Part 1-107: Electrical Test Methods – Test for Cable Microphony Charge Level (Mechanical Induced Noise);
- Part 1-108: Electrical Test Methods – Test for Characteristics Impedance, Phase and Group Delay, Electrical Length and Propagation Velocity;
- Part 1-110: Electrical Test Methods – Continuity;
- Part 1-111: Electrical Test Methods – Phase Constant Stability Test;
- Part 1-112: Electrical Test Methods – Test for Return Loss (Uniformity of Impedance);
- Part 1-113: Electrical Test Methods – Attenuation Constant Test;
- Part 1-114: Electrical Test Methods – Inductance;
- Part 1-115: Electrical Test Methods – Test for Regularity of Impedance (Pulse/Step Function Return Loss);
- Part 1-116: Electrical Test Methods – Measuring Characteristic Impedance by TDR Method;

Coaxial Communication Cables

– Part 1-102: Electrical Test Methods

– Test for Capacitance of Cable

1 Scope

This Part of GB/T 17737 is applicable to the coaxial communication cables. It specifies the test method to determine the capacitance.

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.

IEC 60050 (all parts) International Electrotechnical Vocabulary

IEC 61196-1 Coaxial Communication Cables – Part 1: Generic Specification – General, Definitions and Requirements

3 Terms and Definitions

The terms and definitions stipulated in IEC 60050 and IEC 61196-1 are applicable to this document.

4 Test Methods

4.1 Equipment

The capacitance shall be measured by a device that can accurately measure the less than 1% estimated value of the cable; the frequency range is 500Hz~2kHz.

4.2 Specimen

The length of the cable under test (CUT) shall be approximately 15m, except for the

This is an excerpt of the PDF (Some pages are marked off intentionally)

Full-copy PDF can be purchased from 1 of 2 websites:

1. <https://www.ChineseStandard.us>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Select your country (currency), for example: USA (USD); Germany (Euro).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Tax invoice can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with download links).

2. <https://www.ChineseStandard.net>

- SEARCH the standard ID, such as GB 4943.1-2022.
- Add to cart. Only accept USD (other currencies - <https://www.ChineseStandard.us>).
- Full-copy of PDF (text-editable, true-PDF) can be downloaded in 9 seconds.
- Receiving emails in 9 seconds (with PDFs attached, invoice and download links).

Translated by: Field Test Asia Pte. Ltd. (Incorporated & taxed in Singapore. Tax ID: 201302277C)

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

----- The End -----