

Translated English of Chinese Standard: GB/T17737.102-2018

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# GB

NATIONAL STANDARD OF THE  
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**GB/T 17737.102-2018 / IEC 61196-1-102:2005**

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## **Coaxial Communication Cables – Part 1-102: Electrical Test Methods – Test for Insulation Resistance of Cable Dielectric**

(IEC 61196-1-102:2005, IDT)

同轴通信电缆 第 1-102 部分：

电气试验方法 电缆介质绝缘电阻试验

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**Issued by: General Administration of Quality Supervision, Inspection and  
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## 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 Insulation Resistance of Cable Dielectric

## 1 Scope

This Part of GB/T 17737 is applicable to the coaxial communication cable. It specifies the test method for determining the insulation resistance of coaxial cable.

## 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 17737.1-2013 Coaxial Communication Cables – Part 1: Generic Specification – General, Definitions and Requirements (IEC 61196-1:2005, IDT)

## 3 Terms and Definitions

The terms and definitions stipulated in GB/T 17737.1-2013 are applicable to this document.

## 4 Test for Insulation Resistance of Dielectric

### 4.1 Principle

This test aims to determine the DC insulation resistance of the dielectric between the inner and outer conductor (or shield yield); or determine DC insulation resistance of dielectric between outer conductor of cable and additional shield or metal component.

### 4.2 Test equipment

The test equipment shall include:

--- DC power supply: greater than 80V d.c.; no greater than 500V d.c.

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