

ICS 33.120.10
CCS L 26



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

GB/T 17737.4-2025

Replacing GB/T 17737.4-2013

**Coaxial communication cables - Part 4: Sectional specification
for leaky cables**

同轴通信电缆 第4部分：漏泄电缆分规范

(English Translation)

Issued on: October 31, 2025

Implemented on: May 1, 2026

Issued by: State Administration for Market Regulation

Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative References	
3 Terms and Definitions	
4 Model and markings	5.
4.1 Product Model	
4.2 Product Identification	
5 Technical requirements and testing methods	
5.1 Cable Structure and Materials	
5.2 Finished Cables	
6 Inspection Rule	
6.1 General Rules	
6.2 Batching and Sampling	
6.3 Factory Inspection	
6.4 Type Testing	
7 Packaging, labeling, transportation and storage	
7.1 Packaging	
7.2 Tag	
7.3 Transportation	
7.4 Storage	
8 Project Data	
Appendix A (Normative) Measurement Methods for Attenuation Constant/Insertion Loss	
A.1 General Rule	
A.2 Measuring equipment	
A.3 Ground Laying Method	
A.4 Overhead Laying Method	
A.5 Calibration	
A.6 Measurement	
A.7 Calculation	
A.8 Details to be specified in the detailed specifications	
Appendix B (Normative) Coupling Loss Measurement Method	

B.1 Program

B.2 Measurement

B.3 Calculation

B.4 Detailed Specifications Should Specify

Appendix C (Normative) Link Loss Measurement Method

C.1 Program

C.2 Measurement

C.3 Calculate

C.4 Detailed Specifications Should Specify Details

Appendix D (Informative) Method for Measuring Coupling Loss in the Circumferential Direction

D.1 General Rule

D.2 Measurement

D.3 Calculate

D.4 Details to be specified in the detailed specifications

Appendix E (Informative) Methods for Measuring Circumferential Radiation Field Intensity

E.1 General Rule

E.2 Measurement

E.3 Calculation

E.4 Details to be specified in the detailed specifications

References

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 4 of GB/T 17737 "Coaxial Communication Cables". GB/T 17737 has the following parts published.

---Part 1: General Specifications, Definitions, and Requirements.

- Part 1-100.General requirements for electrical test methods;

- Part 1-101.Electrical Test Methods - DC Resistance Test of Conductors;

- Part 1-102.Electrical Test Methods - Cable Dielectric Insulation Resistance Test;

- Part 1-103.Electrical Test Methods - Capacitance Test of Cables;
- Part 1-104.Electrical Test Methods - Capacitive Stability Test of Cables;
- Part 1-105.Electrical Test Methods - Withstand Voltage Test of Cable Dielectric;
- Part 1-106.Electrical Test Methods - Withstand Voltage Test of Cable Sheath;
- Part 1-107.Electrical Test Methods. Cable Flicker Charge Level (Mechanical Induced Noise) Test;
- Part 1-108.Electrical test methods for characteristic impedance, phase delay, group delay, electrical length, and propagation velocity tests;
- Part 1-112.Electrical Test Methods - Return Loss (Impedance Compliance) Test;
- Part 1-113.Electrical test methods for attenuation constant testing;
- Part 1-115.Electrical Test Methods - Impedance Uniformity (Pulse/Step Function Return Loss) Test;
- Part 1-119.Electrical test methods for radio frequency power of coaxial cables and cable assemblies;
- Part 1-122.Electrical Test Methods - Crosstalk Test Between Coaxial Cables;
- Part 1-200.General requirements for environmental testing methods;
- Part 1-201.Environmental testing methods for cold bending performance of cables;
- Part 1-203.Environmental Testing Methods - Water Leakage Test for Cables;
- Part 1-205.Environmental testing methods for resistance to solvents and contaminated liquids;
- Part 1-301.Mechanical testing methods for ellipticity testing;
- Part 1-302.Mechanical testing methods for eccentricity testing;
- Part 1-308.Mechanical testing methods for testing the tensile strength and elongation of copper-clad metals;
- Part 1-310.Mechanical testing methods - Torsional properties test of copper-clad metals;
- Part 1-313.Mechanical testing methods for adhesion of media and sheaths;
- Part 1-314.Mechanical Test Methods - Bending Test of Cables - Part 1-316.Mechanical Test Methods - Maximum Tensile Strength Test of Cables;
- Part 1-317.Mechanical Test Methods - Cable Compression Test - Part 1-318.Mechanical testing methods for thermal performance testing;
- Part 1-324.Mechanical Test Methods - Cable Abrasion Resistance Test;

- Part 1-325.Mechanical testing methods. wind-induced vibration test.
 - Part 3: Specifications for Coaxial Cables for Local Area Networks
 - Part 4: Specifications for Leaky Cables
 - Part 5: Specifications for CATV trunk and distribution cables.
 - Part 8: Specifications for Polytetrafluoroethylene Insulated Semi-Flexible Cables.
 - Part 8-1.Blank detailed specification for polytetrafluoroethylene insulated semi-flexible cables.
 - Part 9: Specifications for Flexible Radio Frequency Coaxial Cables
 - Part 10: Specifications for Fluoropolymer Insulated Semi-rigid Cables
 - Part 11: Specifications for Polyethylene Insulated Semi-rigid Cables this document supersedes GB/T 17737.4-2013 "Coaxial Communication Cables - Part 4: Leaky Cable Specifications", and is consistent with GB/T 17737.4-Compared to 2013, aside from structural adjustments and editorial changes, the main technical changes are as follows.
 - Added terms related to leaky cable classification, characteristic parameters, etc. (see Chapter 3);
 - Added "Model Number and Identification" (see Chapter 4);
 - Added performance parameters such as "link loss", "cold bending", and "inner conductor/insulation adhesion" and corresponding test methods (see Chapter 5);
 - The sections "Preferred Ratings and Characteristics" and "Cable Marking" have been removed (see Chapters 5 and 6.1 of the 2013 edition);
 - The requirements and test methods for "flammability performance" have been changed, adopting the requirements of the corresponding cable flammability performance classification and the general rules for flame-retardant cables (see...).
- 5.2.6 (7.5 in the 2013 version)
- Added requirements and test methods related to the environmental characteristics of cables (see 5.2.7);
 - The inspection rules have been changed (see Chapter 6, Chapter 8 in the 2013 edition);
 - Packaging, labeling, transportation, and storage requirements have been changed, with additional specific provisions added (see Chapter 7, Chapter 9 of the 2013 edition);
 - Added regulations on the use of engineering data (see Chapter 8);
 - The attenuation constant measurement method has been changed, an insertion loss measurement method has been added, and a vector network analyzer and signal source