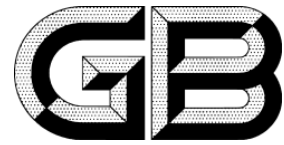


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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17737.10-2024

Replacing GB/T 17737.2-2000

**Coaxial communication cables - Part 10: Sectional specification
for semi-rigid cables with fluoropolymer dielectric
(English Translation)**

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C:2 Quality Assessment

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Table 1 Distinction number

Table 2 Rated temperature

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Table A:1 Some performance requirements of typical cables

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents"

Drafting:

This document is Part 10 of GB/T 17737 "Coaxial communication cables": GB/T 17737 has published the following parts:

--- Part 1: General specifications General principles, definitions and requirements:

- Part 1-100: General requirements for electrical test methods;
- Part 1-101: Electrical test methods Conductor DC resistance test;
- 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 Capacitance stability test of cables;
- Part 1-105: Electrical test methods - Withstand voltage test for cable dielectrics;
- Part 1-106: Electrical test methods - Withstand voltage test for cable sheath;
- Part 1-107: Electrical test methods Cable microphonic charge level (mechanically induced noise) test;
- Part 1-108: Electrical test methods Characteristic impedance, phase delay, group delay, electrical length and propagation velocity tests;
- Part 1-112: Electrical test methods Return loss (impedance consistency) test;
- Part 1-113: Electrical test methods attenuation constant test;
- Part 1-115: Electrical test methods Impedance uniformity (pulse/step function return loss) test;
- Part 1-122: Electrical test methods Crosstalk test between coaxial cables;
- Part 1-200: General requirements for environmental test methods;
- Part 1-201: Environmental test methods - Cold bending performance test of cables;
- Part 1-203: Environmental test methods Water penetration test for cables;
- Part 1-205: Environmental test methods Solvent and contamination liquid resistance test;
- Part 1-301: Mechanical test methods Ovality test;
- Part 1-302: Mechanical test methods eccentricity test;
- Part 1-308: Mechanical test methods - Tensile strength and elongation test of copper-clad metals;
- Part 1-310: Mechanical test methods - Tests on torsional properties of copper-clad metals;
- Part 1-313: Mechanical test methods Adhesion of dielectric and sheath;
- Part 1-314: Mechanical test methods - Bending test for cables;
- Part 1-316: Mechanical test methods Maximum tensile test for cables;
- Part 1-317: Mechanical test methods Cable compression test;
- Part 1-318: Mechanical test methods Thermal properties test;

- Part 1-324: Mechanical test methods Cable abrasion resistance test;
- Part 1-325: Mechanical test methods Wind-induced vibration test:
- Part 3: Sectional specification for coaxial cables for local area networks:
- Part 4: Sectional specification for leaky cables:
- Part 5: Sectional specification for trunk and distribution cables for CATV:
- Part 8: Sectional specification for polytetrafluoroethylene insulated semi-flexible cables:
- Part 8-1: Blank detail specification for polytetrafluoroethylene insulated semi-flexible cables:
- Part 10: Sectional specification for semi-rigid cables with fluoropolymer insulation:
- Part 11: Sectional specification for polyethylene insulated semi-rigid cables:

This document replaces GB/T 17737.2-2000 "Radio Frequency Cables Part 2: Polytetrafluoroethylene (PTFE) Insulated Semi-rigid Radio Frequency Coaxial Cables Compared with GB/T 17737.2-2000, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed the scope, terms and definitions (see Chapter 1, Chapter 3, Chapter 1 of the:2000 edition);
- Added materials and cable structures (see Chapter 4);
- Changed the rated values and characteristics (see Chapter 7, Chapter 2 of the:2000 edition);
- Added IEC model naming, identification, marking and labeling (see Chapter 5 and Chapter 6);
- Changed the finished cable test (see Chapter 8, Chapter 3 of the:2000 edition);
- Modified quality assessment (see Chapter 9, Chapter 4 of the:2000 edition);
- Added delivery and storage (see Chapter 10);
- Added "Performance requirements of typical cables" and "Temperature shock" (see Appendix A and Appendix B):

This document is equivalent to IEC 61196-10:2022 "Coaxial communication cables Part 10: Fluoropolymer insulated semi-rigid cables "Specification":

The following minimal editorial changes were made to this document:

- Added 8:1 normative references to IEC 61196-1 (all parts) in Chapter 2, normative references in Table 3 IEC 61196-1-111 and IEC 61196-1-1 with normative references in Chapter 9;