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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 17737.125-2026

Coaxial communication cables-Part 1-125:Electrical test methods-Test for equivalent relative permittivity and equivalent dissipation factor of dielectric

同轴通信电缆 第1-125 部分：电气试验方法 等效相对介电常数和等效介质损耗因数试验

(English Translation)

Issued on: September 28, 2026 **Implemented on: April 1, 2027**

Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC

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https://chinastandards.org/standards/gb-t-17737-125-2026

1 Foreword

GB/T 17737.125-2026 was issued by State Administration for Market Regulation; Standardization Administration of the PRC on 28 September 2026 and has been in force since 1 April 2027.

It is one of 46 parts of the GB/T 17737 series.

2 About this standard

Issued by: State Administration for Market Regulation; Standardization Administration of the PRC

English translation: about 15 pages (approximate)

3 Related standards

Other parts of this standard:

GB/T 17737.1-2013 - Coaxial communication cables -- Part 1: Generic specification -- General, definitions and requirements

GB/T 17737.3-2001 - Radio frequency cables -- Part 3: Sectional specification for coaxial cables for local area networks

GB/T 17737.4-2025 - Coaxial communication cables - Part 4: Sectional specification for leaky cables

GB/T 17737.5-2013 - Coaxial communication cables -- Part 5: Sectional specification for CATV trunk and distribution cables

GB/T 17737.8-2022 - Coaxial communication cables - Part 8: Sectional specification for semi-flexible cables with polytetrafluoroethylene (PTFE) dielectric

GB/T 17737.9-2024 - Coaxial communication cables - Part 9: Sectional specification for flexible RF coaxial cables

GB/T 17737.10-2024 - Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with fluoropolymer dielectric

GB/T 17737.11-2024 - Coaxial communication cables - Part 11: Sectional specification for semi-rigid cables with polyethylene(PE) dielectric

GB/T 17737.100-2018 - Coaxial communication cables -- Part 1-100: Electrical test methods -- General requirements

GB/T 17737.101-2018 - Coaxial communication cables -- Part 1-101: Electrical test

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methods -- Test for conductor d.c. resistance of cable

GB/T 17737.102-2018 - Coaxial communication cables -- Part 1-102: Electrical test methods -- Test for insulation resistance of cable dielectric

GB/T 17737.103-2018 - Coaxial communication cables -- Part 1-103: Electrical test methods -- Test for capacitance of cable

GB/T 17737.104-2018 - Coaxial communication cables -- Part 1-104: Electrical test methods -- Test for capacitance stability of cable

GB/T 17737.105-2018 - Coaxial communication cables -- Part 1-105: Electrical test methods -- Test for withstand voltage of cable dielectric

GB/T 17737.106-2018 - Coaxial communication cables -- Part 1-106: Electrical test methods -- Test for withstand voltage of cable sheath

GB/T 17737.107-2018 - Coaxial communication cables -- Part 1-107: Electrical test methods -- Test for cable microphone charge level (mechanically induced noise)

GB/T 17737.108-2018 - Coaxial communication cables -- Part 1-108: Electrical test methods -- Test for characteristic impedance, phase and group delay, electrical length and propagation velocity

GB/T 17737.110-2026 - Coaxial communication cables - Part 1-110: Electrical test methods - Test for continuity

GB/T 17737.112-2018 - Coaxial communication cables -- Part 1-112: Electrical test methods -- Test for return loss (uniformity of impedance)

GB/T 17737.113-2024 - Coaxial communication cables - Part 1-113: Electrical test methods - Test for attenuation constant

GB/T 17737.115-2018 - Coaxial communication cables -- Part 1-115: Electrical test methods -- Test for regularity of impedance (pulse/step function return loss)

GB/T 17737.116-2026 - Coaxial communication cables - Part 1-116: Electrical test methods - Test for impedance with time domain reflectometry (TDR)

GB/T 17737.119-2024 - Coaxial communication cables - Part 1-119: Electrical test methods - RF power for coaxial cables and cable assemblies

GB/T 17737.122-2018 - Coaxial communication cables -- Part 1-122: Electrical test methods -- Test for crosstalk between coaxial cables

GB/T 17737.123-2026 - 1-123:Electrical test methods-Test for attenuation constant of radiating cable

GB/T 17737.124-2026 - 1-124:Electrical test methods-Test for coupling loss of radiating cable

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GB/T 17737.126-2026 - Coaxial communication cables - Part 1-126: Electrical test methods - Corona extinction voltage

GB/T 17737.200-2018 - Coaxial communication cables -- Part 1-200: Environmental test methods -- General requirements

GB/T 17737.201-2015 - Coaxial communication cables -- Part 1-201: Environmental test methods -- Test for cold bend performance of cable

GB/T 17737.203-2018 - Coaxial communication cables -- Part 1-203: Environmental test methods -- Test for water penetration of cable

GB/T 17737.205-2018 - Coaxial communication cables -- Part 1-205: Environmental test methods -- Resistance to solvents and contaminating fluids

GB/T 17737.209-2026 - Coaxial communication cables - Part 1-209: Environmental test methods - Thermal cycling

GB/T 17737.215-2026 - Coaxial communication cables - Part 1-215: Environmental test methods - High temperature ageing of cables

GB/T 17737.301-2018 - Coaxial communication cables -- Part 1-301: Mechanical test methods -- Test for ovality

GB/T 17737.302-2018 - Coaxial communication cables -- Part 1-302: Mechanical test methods -- Test for eccentricity

GB/T 17737.308-2018 - Coaxial communication cables -- Part 1-308: Mechanical test methods -- Test for tensile strength and elongation for copper-clad metals

GB/T 17737.310-2018 - Coaxial communication cables -- Part 1-310: Mechanical test methods -- Test for torsion characteristics of copper-clad metals

GB/T 17737.313-2015 - Coaxial communication cables -- Part 1-313: Mechanical test methods -- Adhesion of dielectric and sheath

GB/T 17737.314-2018 - Coaxial communication cables -- Part 1-314: Mechanical test methods -- Test for cable bending

GB/T 17737.316-2018 - Coaxial communication cables -- Part 1-316: Mechanical test methods -- Test for maximum pulling force of cable

GB/T 17737.317-2018 - Coaxial communication cables -- Part 1-317: Mechanical test methods -- Test for crush resistance of cable

GB/T 17737.318-2018 - Coaxial communication cables -- Part 1-318: Mechanical test methods -- Heat performance tests

GB/T 17737.324-2018 - Coaxial communication cables -- Part 1-324: Mechanical test methods -- Test for abrasion resistance of cable

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GB/T 17737.325-2018 - Coaxial communication cables -- Part 1-325: Mechanical test methods -- Aeolian vibration

GB/T 17737.801-2022 - Coaxial communication cables - Part 8-1: Blank detail specification for semi-flexible cables with polytetrafluoroethylene(PTFE) dielectric

4 Classification and status

Prefix GB/T: recommended standard.

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