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

GB/T 17737.301-2018

**Coaxial communication cables -- Part 1-301: Mechanical test
methods -- Test for ovality**

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Foreword

GB/T 17737 "Coaxial Communication Cable" has or plans to issue the following parts.

--- Part 1. General rules, definitions and requirements;

--- Section 1-31 . Mechanical test methods ; Ellipticity test ;

-- Part 1-302 . Mechanical test methods ; eccentricity test ;

-- Part 1-304 . Mechanical test methods ; Impact test ;

Part 1-108 . Mechanical test methods -- Tensile strength and elongation test of copper clad metal ;

--- Part 1-310. Mechanical test methods Torsional characteristics of copper clad metal;

--- Part 1-313. Mechanical test methods Adhesion of media and sheath;

--- 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;

--- Sections 1-318. Mechanical test methods Thermal performance test;

--- Part 1-324 . Mechanical test methods Cable abrasion resistance test ;

--- Part 1-325 . Mechanical test methods Wind - induced vibration test ;

This section is part 1-301 of GB/T 17737.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to using IEC 61196-1-301.2005 "coaxial communication cable Part 1-301. mechanical test method

Ellipticity test."

The Chinese documents that have a consistent correspondence with the normatively quoted international documents in this section are as follows.

---GB/T 17737.1-2013 Coaxial telecommunication cables Part 1. General specifications General, definitions and requirements (IEC 61196-1.

2005, IDT).

1 Scope

This part of GB/T 17737 applies to coaxial communication cables. It stipulates the determination of the insulation, outer conductor and jacket or protection of coaxial cable

Layer ovality test method.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

IEC 61196-1 Coaxial Communication Cables Part 1. Generic Specification General, Definitions and Requirements (Coaxialcommunicationca-

bles-Part 1.Generic specification-General,definitionsandrequirements)

3 Terms and definitions

The terms and definitions defined by IEC 61196-1 apply to this document.

4.1 Principle

The ellipticity of the cable is determined by measuring two orthogonal diameters on the cross-section of the finished cable specimen.

4.2 Test Equipment

The resolution of the instrument is 0.01mm. The following instruments can be used.

--- Microscope. Can be read to the third decimal place;

--- Projection measuring instrument. Magnification at least 10 times;

--- Caliper;
---micrometer.

4.3 sample preparation

Three specimens were taken from the finished cable, each specimen having a cut-off interval of at least 100 mm. According to the relevant sub-specification or detailed regulations

Make sure that the cross-section of each specimen should be cut flat and carefully clean the burrs.

4.4 Procedures

The outer diameter of the cable was measured twice for each cross-section and the diameters measured should be perpendicular to each other.

Each time a measurement is taken, an appropriate position is selected. Both diameters are perpendicular to each other and give their maximum difference.