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# NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# GB/T 17737.325-2018

## Coaxial communication cables -- Part 1-325: Mechanical test methods -- Aeolian vibration

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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 1-325 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 the use of IEC 61196-1-325.2008 "coaxial communication cable Part 1-325. mechanical test side

Wind-induced vibration 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 specifies the determination of overhead cables for analog or digital communication systems

Test methods for dynamic stresses due to the flow of light wind in overhead lines.

## 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 Samples

Unless otherwise specified in the relevant specification, the length of the specimen shall be at least 50 m. Both ends of the specimen should be prepared so as to be within the specified frequency range

Attenuation tests can be performed continuously.

### 4.2 Device

The device should include.

--- Test device (typical test configuration shown in Figure 1);

--- Electronically controlled vibrators;

--- dynamometers, load cells, calibrated measuring rods or other devices for measuring cable tension;

--- Network analyzer covering the test frequency range;

--- Continuity measuring instruments.

### 4.3 Procedures

Both ends of the cable should be terminated. Apply a certain tension to the cable so that the cable is properly installed.

Use a dynamometer, load cell, calibrated load cell, or other device that measures cable pull to measure cable tension. Experimental procedure

It is advisable for China to take certain measures to keep the tension constant when the temperature fluctuates.

Unless otherwise specified in certain specific conditions of use, the cable shall be gradually loaded to the maximum tensile load specified by the relevant specification.