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

GB/T 17737.317-2018

**Coaxial communication cables -- Part 1-317: Mechanical test
methods -- Test for crush resistance of cable**

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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 part is part 1-317 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 identical to the use of IEC 61196-1-317.2006 "coaxial communication cable part 1-317. mechanical test side

Method Cable Compression 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 test method for determining the compression resistance of a coaxial cable.

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 Test device

The test device enables the cable to be tested to be pressed between a flat steel base plate and a movable steel plate and applied to a 100 mm long test cable

The force should be uniform.

The edge of the movable plate should be rounded with a radius of 5mm. The rounded edges are not contained within the 100mm flat section. Suitable test

The device is shown in Figure 1.

4.2 Samples

The sample should be of sufficient length for the specified test.

Except as otherwise specified in relevant sub-standards or detailed specifications, the test temperature of the tested cable shall be maintained at 15°C~35°C.

For cables with an outside diameter of less than 5mm, the tested cable can be tested in a loop. In this case, the applied force is the specified value

Twice. The radius of the ring should be large enough to not affect the transmission characteristics of the cable.

4.3 Procedures

The cable under test shall be mounted on the base plate of the test device to prevent lateral sliding. Use a rounded parallel plate to move on the test

Apply a pressure load on the cable. The load should be applied gradually or stepwise to the value (F) specified in the relevant sub-specification or detail specification. There should be no

Sudden change. The maximum load should last 2min. After removing the load, the cable under test can be restored for 2 minutes. If step loading, step load ratio

Should not exceed 1.5.1.