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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 17737.316-2018

Coaxial communication cables -- Part 1-316: Mechanical test methods -- Test for maximum pulling force 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 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 1-316 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 61196-1-316.2005 "coaxial communication cable part 1-316. mechanical test side

Maximum tensile strength test method."

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);

---GB/T 17737.115-2018 Coaxial communication cables Part 1-115. Electrical test methods Impedance uniformity (pulse/

Step function return loss test) (IEC 61196-1-115.2006, IDT).

1 Scope

This part of GB/T 17737 applies to coaxial communication cables. It specifies that the coaxial cable should withstand the maximum allowable load (longitudinal pull

Extension) Test method for capacity.

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)

IEC 61196-1-115 Coaxial communication cables Part 1-115. Electrical test methods Impedance uniformity (Pulse/step function back

Wave Loss Test) [Coaxialcommunicationcables-Part 1-115. Electricaltestmethods-Testforregularity

Ofimpedance(pulse/stepfunctionreturnloss)]

3 Terms and definitions

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

4.1 Principle

This test determines the ability of the cable to withstand the maximum allowable load specified by the sub-specific specification or detailed specification.

4.2 Sample preparation

Take a sample of a finished cable at least 6m long for testing. Prepare and equip adapters at both ends for test power

The characteristic impedance of the cable sample.

4.3 Procedures

Install the cable clamps as close to both ends of the cable as possible (not on the connector) and install it on the tensioning device

on. One end is fixed and the other end is equipped with a tension gauge and ratchet traction device. Connect the sample to the impedance tester.

Apply 10% of the maximum tensile force specified by the relevant cable specification between the cable gripping devices and do two on the cable

Baseline markers, 1.5m apart.

Note. Be careful not to damage the connection between the cable and the connector during the test.

Test the characteristic impedance of the cable between the reference marks as specified in IEC 61196-1-115 (Procedure B); gradually increase the tension to the specified load