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

GB/T 31723.411-2018

Metallic communication cable test methods -- Part 4-11: Electromagnetic compatibility (EMC) -- Coupling attenuation or screening attenuation of patch cords, coaxial cable assemblies, pre-connectorized cables -- Absorbing clamp method

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Test methods

4.1 Equipment

Foreword

The electromagnetic compatibility part of GB/T 31723 "Metal Communication Cable Test Method" has been or is planned to release the following parts.

--- Part 4-0. Recommended limits for the relationship between electromagnetic compatibility surface transfer impedance and shielding attenuation;

--- Section 4-1. Introduction to electromagnetic compatibility shielding measurements;

--- Part 4-2. Electromagnetic compatibility shielding and coupling attenuation injection clamp method;

--- Part 4-3. Electromagnetic compatibility surface transfer impedance triaxial method;

--- Part 4-4. Shielding attenuation measurement method for electromagnetic compatibility shielding attenuation up to 3 GHz and above;

---Part 4-5. Electromagnetic compatibility coupling or shielded attenuation absorption clamp method;

---Part 4-6. Electromagnetic compatibility surface transfer impedance line injection method;

--- Part 4-7. Electromagnetic compatibility transfer impedance, shielding or coupling attenuation tube tube method;

---Part 4-8. Electromagnetic compatibility capacitive coupling admittance;

--- Part 4-9. Coupling attenuation triaxial method for electromagnetic compatibility shielded symmetrical cables;

---Part 4-10. Electromagnetic compatibility feedthrough and electromagnetic gasket shielding attenuation double coaxial method;

---Parts 4-11. Coupling attenuation or shielding attenuation absorption of electromagnetic compatibility jumpers, coaxial cable assemblies, connector cables

Clamp method

--- Part 4-12. Coupling attenuation or shielded attenuation absorption clamp method for electromagnetic compatibility connection hardware;

--- Part 4-13. Coupling attenuation absorbing clamp method for electromagnetic compatibility links and channels (laboratory conditions);

--- Part 4-14. Coupling attenuation absorbing clamp method for electromagnetic compatibility cable assemblies (field conditions).

This part is part 4-11 of GB/T 31723.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the translation method equivalent to IEC 62153-4-11.2009 "Metal communication cable test method Part 4-11. Electromagnetic

Capacitor jumper, coaxial cable assembly, coupling attenuation of the connector cable or shielded attenuation absorption clamp method.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are.

Coaxial communication cables - Part 1 . General rules, definitions and requirements (IEC 61196-1.

2005, IDT).

1 Scope

This part of GB/T 31723 specifies jumpers, coaxial cable assemblies, connectors for use in analog and digital communication systems.

Test method for coupling attenuation and shielding attenuation of cables.

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 edition (including all amendments) applies to this document.

GB/T 31723.405-2015 Test methods for metallic communication cables - Part 4-5. Electromagnetic compatibility coupling or s

Clamping method (IEC 62153-4-5.2006, IDT)

IEC 60050-726 International Electrotechnical Dictionary Part 726. Transmission Lines and

Waveguides [International Electrotechnical Vocab-

Uryy (IEV)-Part 726. Transmission lines and waveguides]

IEC 61196-1 coaxial communication cables - Part 1. General specification, definitions and requirements (Coaxial communication ca-

bles-Part 1. Generic specification-General, definitions and requirements)

ITU-TG.117.1996 Earthquake imbalance transmission
(Transmission aspect of imbalance about earth)

ITU-TO.9.1999 Assessment of test configurations for ground imbalances
(Measuring arrangements to assess the degree

Of imbalance about earth)

3 Terms and definitions

The terms and definitions defined in IEC 61196-1 and IEC 60050-726 apply to this section.

The measured line (jumper, coaxial cable assembly, connector cable) in this section is referred to as "jumper" for short.

4.1.1 General

See 5.1.1 of GB/T 31723.405-2015 and Figure 1 of this part.

For the jumper test, two test sockets for the hardware module and extension cable are required to measure the jumper (see 4.1.3). These two tests

The ports are called the near-end test port and the far-end test port.