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

GB/Z 30556.2-2017

**Electromagnetic compatibility -- Installation and mitigation
guidelines -- Earthing and cabling**

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Foreword

The Electromagnetic Compatibility Installation and Mitigation Guidelines currently includes the following sections.

---GB /Z 30556.1-2017 General requirements for electromagnetic compatibility installation and mitigation guidelines;

---GB/T 30556.7-2014 Electromagnetic compatibility installation and mitigation guidelines The electromagnetic disturbance protection level of the enclosure.

This part is the second part of the Electromagnetic Compatibility Installation and Mitigation Guidelines.

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

This part uses the translation method equivalent to the international standard IEC TR61000-5-2:1997 "Electromagnetic compatibility part 5-2. installation and reduction

Grounding and wiring for slow guidance.

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

---GB/T 4365-2003 Electrotechnical terminology electromagnetic compatibility [IEC 60050 (161)..1990, IDT];

---GB/T 2900.71-2008 Electrotechnical terminology electrical device [IEC 60050 (826)..2004, IDT];

---GB /Z 18039.1-2000 Electromagnetic compatibility environment electromagnetic environment classification [IEC 61000-2-5:1996, IDT];

---GB/T 18233-2008 General cable for information technology user buildings [ISO /IEC 11801:2002, IDT].

This section also made the following editorial changes.

--- Add missing clause number, change the original clause number 8.1.2 to 8.1.1, and the original 8.1.3 to 8.1.2.

This part is proposed and managed by the National Electromagnetic Compatibility Standardization Technical Committee (SAC/TC246).

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1 Scope

In order to ensure electromagnetic compatibility (EMC) of electrical and electronic equipment or systems, this section gives connections in electrical and electronic systems and facilities.

Ground and wiring guidelines. It is more concerned with the implementation of grounding and the cables used in industrial, commercial and residential facilities. This section applies to those

Installers of sensitive electrical or electronic equipment and systems and equipment with high emission levels that may degrade the surrounding overall electromagnetic (EM) environment,

Users and manufacturers within a certain range. This section is mainly applicable to new facilities, but it is also applicable to the current situation when economic conditions are feasible.

There are facilities for expansion and improvement.

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.

IEC 60050 (161)..1990 International Electrotechnical Vocabulary Chapter 161.

Electromagnetic Compatibility [International ElectrotechnicalVo-

Cabulary (IEV)-Chapter161. Electromagneticcompatibility]

IEC 60050 (826). 1982 International Electrotechnical Vocabulary Chapter 826. Electrical Installation of Buildings [International Electrotech-

nical Vocabulary (IEV)-Chapter 826. Electrical installation of buildings]

Amendment 1. 1990

Amendment 2. 1995

IEC 61000-2-5. 1995 Electromagnetic compatibility (EMC) Part 2. Environment Chapter 5. Classification of electromagnetic environment Electromagnetic compatibility

Basic standard [Electromagnetic compatibility (EMC)-Part 2. Environment-Section 5. Classification of

electromagnetic environments-Basic EMC publication]

IEC 61000-5-1. 1996 Electromagnetic compatibility (EMC) Part 5-1. Installation and mitigation guidelines General requirements Electromagnetic compatibility

Basic standard [Electromagnetic compatibility (EMC)-Part 5. Installation and mitigation guidelines-Section

1. General considerations-Basic EMC publication]

IEC 61024-1. 1990 Lightning protection for buildings - Part 1. General principles [Protection of structures against

lightning-Part 1. General principles]

ISO / IEC 11801. 1995 General Cable for Information Technology User Building Groups [Information technology-Generic ca-

bles for customer premises]

3 Terms and definitions

IEC 60050 (161). 1990 and IEC 60050 (826). 1982 Amendment 1. 1990 Amendment 2. 1995 defined terms and

The meaning applies to this document.

A list of abbreviations is provided at the end of this chapter.

3.1

Bonding

An operation of connecting an exposed conductive portion of an apparatus, system, or facility that is substantially equipotential to an external conductive member.

Note. For safety reasons, lugs generally include (not necessary) connections to the nearest

grounding system.

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