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GB/T 43460.1-2023

Electromagnetic compatibility-Risk analysis methods-Part 1: Cable shielding

电磁兼容 风险分析方法 第1部分：电缆屏蔽

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Foreword

This document complies with the provisions of GB/T 1:1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document is Part 1 of GB/T 43460 "Electromagnetic Compatibility Risk Analysis Method": GB/T 43460 has released the following part:

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- Part 1: Cable shielding:

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Introduction

Electromagnetic compatibility (EMC) risk assessment technology is based on the EMC design method and uses common risk assessment methods:

The process of risk assessment divides risk levels, establishes an ideal model for equipment design, and determines risk factors to identify EMC risks:

GB/T 43460 "Electromagnetic Compatibility Risk Analysis Method" aims to establish the analysis of risk elements suitable for the ideal model of EMC risk assessment:

The method is intended to consist of the following parts:

- Part 1: Cable shielding: The purpose is to give the operation method of cable shielding risk elements in the ideal model of EMC risk assessment: Laws and procedures:

- Part 2: Port EMC device: The purpose is to give the risk requirements of the port EMC device in the ideal model of EMC risk assessment:

Element operating methods and procedures:

- Part 3: Grounding: The purpose is to provide the operating methods and procedures for the grounding risk elements in the ideal model of EMC risk assessment:

- Part 4: Signal processing: The purpose is to provide an operational method for signal processing risk elements in an ideal model for EMC risk assessment: Laws and procedures:

- Part 5: Crosstalk processing: The purpose is to provide an operation method for crosstalk processing risk elements in the ideal model of EMC risk assessment: Laws and procedures:

Electromagnetic compatibility risk analysis method Part 1: Cable shielding

1 Scope

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This document gives the classification of cable shielding risk factors, risk analysis procedures, risk sub-elements, data measurements, data deviation values, risk Evaluated value and risk level:

This document applies to direct-connect shielded cables and connector shielded cables:

2 Normative reference documents

GB/T 17737

GB/T 31723

GB/T 38659

GB/T 38659

IEC 62153

IEC 62153

IEC 62153

IEC 62153

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3 Terms, definitions and abbreviations

3:1 Terms and definitions The following terms and definitions as defined in GB/T 17737:1-2013 and GB/T 37123:406-2015 apply to this document:

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