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ICS 33.050.01
CCS M40

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4676.1-2024

Effects of particle radiation on telecommunication systems and equipment - Part 1: General

粒子辐射对电信系统及设备的影响 第1部分：总则

(English Translation)

Issued on: March 29, 2024 **Implemented on: July 1, 2024**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4676.1-2024 was issued by Ministry of Industry and Information Technology on 29 March 2024 and has been in force since 1 July 2024.

It is one of 4 parts of the YD/T 4676 series.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

This standard specifies the impact of particle radiation on telecommunication systems and equipment and general guidelines and methods for mitigating the impact of soft errors. This standard applies to telecommunication equipment in telecommunication centers and data rooms, including core network equipment and access network equipment installed in telecommunication centers.

YD/T 4676.1-2024 falls under ICS 33.050.01, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

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3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Other parts of this standard:

YD/T 4676.2-2025 - Effect of particle radiation on data center communication equipment - Part 2: neutron irradiation test methods for communication equipment

YD/T 4676.3-2025 - Effect of particle radiation on data center communication equipment - Part 3: quality estimation methods for mitigation measures based on particleradiation tests

YD/T 4676.4-2025 - Effect of particle radiation on data center communication equipment - Part 4: reliability requirements for communication equipment affected by particle radiation

Standards on related subjects:

YD/T 993-2016 - The technical requirements and test methods of overvoltage and overcurrent resistibility for wire telecommunication terminal equipment

YD/T 868-2007 - Technical requirements and measuring methods for additional equipment of telephone set

GB/T 15279-2002 - The specifications of automatic telephone set

5 Classification and status

International classification (ICS): 33.050.01

Chinese Standard Classification (CCS): M 40

Prefix YD/T: recommended standard.

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