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ICS 33.040.50
CCS M42

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4254.1-2023

Industrial Internet - Generic cabling system - Part 1: General principles

工业互联网 综合布线系统 第1部分：总则

(English Translation)

Issued on: April 21, 2023 **Implemented on: August 1, 2023**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-4254-1-2023

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1 Foreword

YD/T 4254.1-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 2023.

It is one of 3 parts of the YD/T 4254 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 structure, wiring subsystem requirements, environmental performance requirements, channel transmission performance requirements, link performance requirements, etc. of the industrial Internet integrated cabling system. This standard is applicable to industrial parks containing multiple industrial buildings within 10km and inside a single industrial building. The integrated wiring system using symmetrical cables or optical fiber wiring in the wiring area supports the applications of information communication, automation, process control, monitoring, etc., including on-site PoE power supply for the network.

YD/T 4254.1-2023 falls under ICS 33.040.50, 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 4254.2-2023 - Industrial Internet - Integrated wiring system - Part 2: Technical requirements for symmetrical cables and connecting hardware, components, and wiring facilities

YD/T 4254.3-2023 - Industrial Internet - Integrated wiring system - Part 3: Technical requirements for optical cables and connectors, components, and wiring facilities

Standards on related subjects:

YD/T 1092-2023 - Telecommunication cables - Foamed polyolefin dielectric, corrugated copper-tube outer conductor, 50 Ohm radio-frequency coaxial cable for wireless communications

YD/T 2165-2010 - Technical specification of modular uninterruptible power systems for telecommunications

YD/T 841-1996 - Underground communication pipe with plastic pipe

YD/T 2019.6-2026 - Test method for broadband customer networking based on public telecommunication network - Part 6: Fiber-To-The-Room (FTTR) residential equipment

5 Classification and status

International classification (ICS): 33.040.50

Chinese Standard Classification (CCS): M 42

Prefix YD/T: recommended standard.

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