



Standards Glossary

Common Standards used in Network Cabling

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ISO/IEC

ISO/IEC 11801 series - Information technology - Generic cabling for customer premises

- ISO/IEC 11801-1: General requirements
- ISO/IEC 11801-2: Office Cabling
- ISO/IEC 11801-3: Industrial Premises
- ISO/IEC 11801-4: Homes
- ISO/IEC 11801-5: Data Centres
- ISO/IEC 11801-6: Distributed Building Services

Technical Reports

- ISO/IEC TR 11801-9901: Guidance for balanced cabling in support of at least 40 Gbit/s data transmission
- ISO/IEC TR 11801-9902: Specifications for End-to-end link configurations
- ISO/IEC TR 11801-9903: Matrix modelling of channels and links
- ISO/IEC TR 11801-9904: Guidelines for the use of installed cabling to support 2,5GBASE -T and 5GBASE -T applications
- ISO/IEC TR 11801-9905: Guidelines for the use of installed cabling to support 25GBASE-T application
- ISO/IEC TR 11801-9906: Guidance for the support of higher speed applications over optical fibre channels
- ISO/IEC TR 11801-9907: Specifications for direct attach cabling
- ISO/IEC 11801-9908: Guidance for the support of higher speed applications over optical fibre channels
- ISO/IEC TR 11801-9909: Evaluation of balanced cabling in support of 25 Gbit/s for reach greater than 30 metres
- ISO/IEC 11801-9910: Specifications for modular plug terminated link cabling

ISO/IEC 24702 Information technology - Generic cabling - Industrial premises

ISO/IEC 24764 Information technology - Generic cabling - Data Centres

ISO/IEC 15018 Information technology - Generic cabling - Homes

ISO/IEC 14763 Information technology – Implementation and operation of customer premises cabling

- ISO/IEC 14763-1 Administration
- ISO/IEC 14763-2 Planning and Installation
- ISO/IEC 14763-3 Testing of Optical Fibre Cabling

ISO/IEC 15018 Generic Cabling for Homes

ISO/IEC 18598 Automated Infrastructure Management (AIM) Systems

ISO/IEC 24702 Industrial Premises

ISO/IEC 24764 Generic Cabling Systems for Data Centres

ISO/IEC 29106 Introduction to the MICE environmental classification

CENELEC - EN

EN 50173 series: Information technology – Generic cabling systems

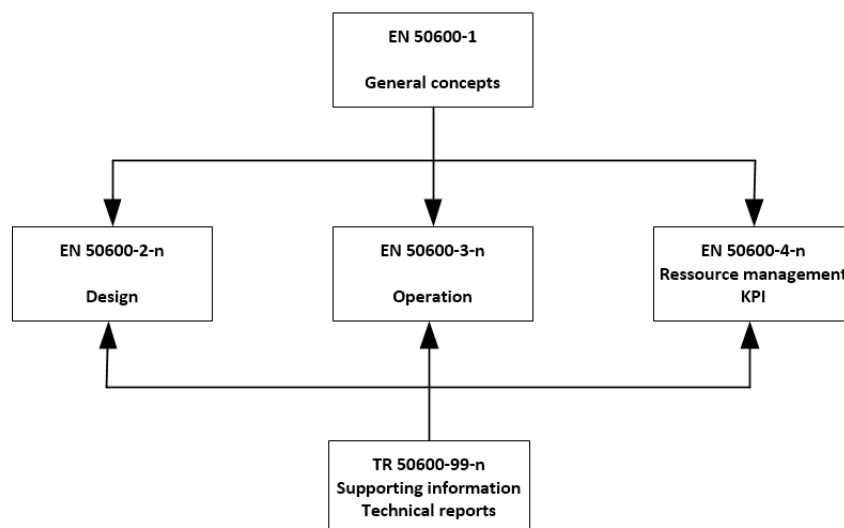
- EN 50173-1: General requirements
- EN 50173-2: Office premises
- EN 50173-3: Industrial premises
- EN 50173-4: Homes
- EN 50173-5: Data centres
- EN 50173-6: Distributed building services

EN 50174 series: Information technology: Cabling Installation

- EN 50174-1: Installation specification and quality assurance
- EN 50174-2: Installation planning and practices inside buildings
- EN 50174-3: Installation planning and practices outside buildings

EN 50600: Information technology: Data centre facilities and infrastructures

- EN 50600-1: General concepts
- EN 50600-2-1: Building construction
- EN 50600-2-2: Power supply and distribution
- EN 50600-2-3: Environmental control
- EN 50600-2-4: Telecommunications cabling infrastructure
- EN 50600-2-5: Security Systems
- EN 50600-3-1: Management and operational information
- EN 50600-4-1: Overview of and general requirements for key performance indicators
- EN 50600-4-2: Power Usage Effectiveness
- EN 50600-4-3: Renewable Energy Factor
- EN 50600-4-6: Energy Reuse Factor
- EN 50600-4-7: Cooling Efficiency Ratio
- TR 50600-99-1: Recommended practices for energy management
- TR 50600-99-2: Recommended practices for environmental sustainability
- TR 50600-99-3: Guidance to the application of EN 50600 series



IEEE

Ethernet - IEEE 802.3

- 802.3ab 1000BASE-T Gbit/s Ethernet over twisted pair at 1 Gbit/s (125 MB/s)
- 802.3ae 10 Gbit/s Ethernet over fibre
- 802.3an 10GBASE-T 10 Gb/s (1,250 MB/s) Ethernet over unshielded twisted pair (UTP)
- 802.3aq 10GBASE-LRM 10 Gb/s (1,250 MB/s) Ethernet over FDDI grade multimode fibre
- 802.3az Energy Efficient Ethernet
- 802.3ba 40 Gbit/s and 100 Gb/s Fibre
- 802.3bm 40Gb/s and 100Gb/s Fibre Optic
- 802.3bp Reduced Twisted-Pair Gigabit Ethernet
- 802.3bq 40GBASE-T
- 802.3u 100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet
- 802.3z 1000BASE-X Gbit/s Ethernet over Fibre Optic at 1 Gbit/s (125 MB/s)

PoE – IEEE 802.3

- 802.3af PoE Type 1 12.95 W
- 802.3at PoE Type 2 (PoE+) 25.5 W
- 802.3bt PoE Type 3 (PoE++) 51 W
- 802.3bt PoE Type 4 (PoE++) 71 W

WiFi - IEEE 802.11

WiFi Alliance Terminology

- 802.11a WiFi 2 54 MB/s 5GHz
- 802.11b WiFi 1 11MB/s 2.4GHz
- 802.11g WiFi 3 54MB/s 2.4GHz
- 802.11n WiFi 4 600 MB/s 2.4 / 5GHz
- 802.11ac WiFi 5 6.9GB/s 5GHz
- 802.11ax WiFi 6 27.6Gb/s 2.4 / 5GHz

TIA

ANSI/TIA-526-7-B, OFSTP-7 - Measurement of Optical Power Loss of Installed Single-Mode Fiber Cable Plant

ANSI/TIA-526-14-B, OFSTP-14 - Optical Power Loss Measurement of Installed Multimode Fiber Cable Plant

ANSI/TIA-568 Series - Telecommunications Cabling Standards

- ANSI/TIA-568.0-D Generic Telecommunications Cabling for Customer Premises
- ANSI/TIA-568.1-D Commercial Building Telecommunications Cabling Standard
- ANSI/TIA-568.2-D Balanced Twisted-Pair Telecommunications Cabling and Components Standard
- ANSI/TIA-568.3-D Optical Fiber Cabling and Components Standard
- ANSI/TIA-568.4-D Broadband Coaxial Cabling and Components Standard

ANSI/TIA-569-E Telecommunications Pathways and Spaces: Generic pathways and spaces for customer owned premises.

ANSI/TIA-570-D Residential Telecommunications Infrastructure Standard

ANSI/TIA-606-C Administration Standard for Telecommunications Infrastructure

ANSI/TIA-598-D Optical Fiber Cabling Color Coding

ANSI/TIA-607-D Generic Telecommunications Grounding (Earthing) and Bonding for Customer Premises

ANSI/TIA-758-B Customer-Owned Outside Plant Telecommunications Infrastructure Standard

ANSI/TIA-862-B Structured Cabling Infrastructure Standard for Intelligent Building Systems

ANSI/TIA-942-B Telecommunications Infrastructure Standard for Data Centers

ANSI/TIA-1005-A Telecommunications Infrastructure Standard For Industrial Premises

ANSI/TIA-1179-A Healthcare Facility Telecommunications Infrastructure Standard

ANSI/TIA-1183-A Measurement methods and test fixtures for balun-less measurements of balanced components and systems