

Category 6 shielded network patch panels



Overview

CAT 6 Patch Panels, CAT6 Patch Panels, CAT 6 Patch Category 6 patch panels are designed to exceed TIA/EIA-568-B.2-1 component, permanent link and Cat6 Patch.

Key Takeaways

Category 6 shielded patch panels provide high-performance, EMI/RFI-protected connectivity for Gigabit Ethernet and other data applications. Overview

Category 6 (Cat6) shielded patch panels are designed to support high-speed network communications while protecting against electromagnetic interference (EMI) and radio frequency interference (RFI). They are commonly used in professional network environments, data centers, and high-density installations where signal integrity is critical .

Key Features

- **Shielding:** Fully shielded jacks and metal enclosures protect connected cables from EMI/RFI, ensuring reliable data transmission .
- **Port Density:** Available in 24-port and 48-port configurations, typically in 1U or 2U rack space, allowing efficient use of cabinet space .
- **Termination Options:** Most panels use 110-style IDC (Insulation Displacement Connector) blocks for fast and reliable termination. Some models offer keystone jacks for modular flexibility .

- **Wiring Standards:** Compatible with T568A and T568B wiring schemes, ensuring interoperability with existing network cabling .
- **Durability:** Rated for a minimum of 750 plug insertions, with robust construction to withstand repeated use .
- **Compliance:** Meets international standards including ANSI/TIA-568.2-D, ISO/IEC 11801, and RoHS2, ensuring quality and environmental compliance .

Advantages

- **Enhanced Signal Integrity:** Shielding reduces crosstalk and external interference, which is especially important in environments with high electrical noise.
- **High-Speed Support:** Suitable for Gigabit Ethernet, 1000BASE-T, 100BASE-TX, and other high-speed protocols .
- **Flexible Installation:** Modular designs and keystone jacks allow easy upgrades, moves, or changes without replacing the entire panel .
- **Cable Management:** Many panels include integrated cable management bars to maintain organized and efficient cabling .

Applications

- Data centers and server rooms
- Enterprise LANs requiring high-speed, interference-free connections
- Environments with high EMI/RFI exposure, such as industrial or broadcast facilities
- High-density network cabinets where space optimization is critical

Popular Models

- **Techlogiks Cat6 Shielded Patch Panels:** Quad frame modules with 8-contact inserts, supporting PoE, analog/digital voice, and video applications .
- **L-com DCP110C6-48S:** 48-port shielded panel with fully enclosed IDC terminals and color-coded ports for EIA568A/B wiring .
- **Signamax MT-Series:** Offers 24 or 48 ports with solid-metal keystone jacks, flexible termination, and integrated cable management .
- **Netstore Direct High-Density Panels:** Available in 1U 24-port or 2U 48-port formats, optimized for Gigabit Ethernet and high-density installations . Category 6 shielded patch panels are essential for maintaining high-performance, reliable network connections in environments where interference and high data throughput are concerns. Selecting the right panel depends on port density, termination type, and shielding requirements.

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