



Cat6a 10G Shielded 48-Port Patch Panel, 1U

19-inch Rackmount Panel for High-density Installations, FTP, 90° Top-Entry Punch-Down Blocks, for Solid and Stranded Wire, Gold-plated Contacts, Black

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48-Port Cat6a Shielded 19-inch Rack Mount Patch Panel for 10G High-Density Installations - Maximize Connectivity in Minimal Space

With its slim 1U installation height, this Cat6a 48-Port Patch Panel from Intellinet Network Solutions provides you with more connectivity options in limited rack space. It is designed to support modern high-performance networks with dependable 10 Gigabit Ethernet capability. Compliant with Cat6A Class EA requirements and supporting frequencies up to 500 MHz, it meets key international standards including ISO/IEC 11801, IEC 60603-7-51, and ANSI/TIA-568-D. This ensures consistent signal integrity and future-ready infrastructure for demanding data environments.

Space-Saving Cable Termination with 90-Degree Entry

The numbered and clearly labeled ports, combined with 90° top-entry IDC punch-down blocks, allow for organized and space-efficient cable routing. This angled design simplifies installation in shallow cabinets and helps maintain clean cable management by guiding cables neatly into position. Compatibility with Krone punch-down tools ensures flexibility for installers, while support for 22 to 26 AWG solid and stranded wire accommodates a wide range of cabling requirements.

Shielded Design for Reliable Performance

Designed for use with fully shielded twisted pair (FTP) Cat6a cable, the panel enhances protection against electromagnetic interference, ensuring stable signal integrity even in demanding environments. Gold-plated contacts (50 micro-inch) provide corrosion resistance and long-term reliability, supporting consistent performance over time. Built from sturdy, cold-rolled SPCC steel and finished with an antistatic powder coating, this patch panel is engineered for long-term durability in professional environments.

Flexible Installation and Clean Cable Management

The integrated cable management bar allows for neat and adaptable cable routing, simplifying both initial installation and future maintenance. Designed to IEC 60297 and EIA 310 standards, the panel fits seamlessly into all standard 19-inch (482.6 mm) racks, making it a versatile solution for a wide range of installations.

Optimized for Modern Network Applications

This shielded patch panel is ideal for high-speed data and power applications, including support for PoE technologies up to IEEE 802.3bt (PoE++ , 4PPoE, Ultra PoE). Its standard 8P8C design ensures full compatibility with all RJ45 network connections, while color-coded wiring supports both T568A and T568B configurations for maximum deployment flexibility.

Features:

- Cat6a Class EA with 10G and 500 MHz in accordance with ISO/IEC 11801, IEC 60603-7-51, and ANSI/TIA-568-D
- 48 ports using only 1U of rack space for high-density installations
- Numbered and labeled RJ45 ports with 90° angled IDC terminals for space-saving cable termination
- 50 micro-inch gold-plated contacts for corrosion-free connections
- Supports 22 to 26 AWG solid and stranded wire
- Compatible with Krone punch-down tools
- Sturdy, high-quality, cold-rolled SPCC steel construction with antistatic powder coating
- IEC 60297 / EIA 310-compliant; compatible with all standard 19 in. / 482.6 mm racks
- Ideal for 10G and PoE applications up to IEEE802.3bt / PoE++ / 4PPoE / Ultra PoE
- For use with fully shielded twisted pair (FTP) Cat6a network cable
- Standard 8P8C design, compatible with all network RJ45 connections
- Compatible and color-coded with T568A and T568B
- Fully backward compatible with all the previous cable categories, including Category 6, 5e and 5
- UL listed
- 10 cable ties included
- Fully NDAA-compliant
- Lifetime warranty

Specifications:

Standards and Certifications

- UL

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- ISO/IEC 11801
- IEC 60603-7-51
- ANSI/TIA-568-D
- CE
- RoHS
- REACH
- UKCA

General

- Supports transfer speeds up to 10 Gbps
- Max. operating frequency: 500 MHz
- Supports all PoE standards up to IEEE802.3bt / PoE++ / 4PPoE / Ultra PoE
- Mating cycles: ≥ 750
- IDC mating cycles: ≥ 20
- Retention strength: 7.7 kg (17 lbs.) between jack and plug

Material

- Frame and bracket: SPCC steel, powder-coated
- Contacts: phosphor bronze
- Contact plating: 50 micro-inch gold
- IDC: phosphor bronze with tin plating
- Flammability:
 - PCB: tested and rated in accordance with FR-4 and UL 94 V-0

Electrical

- Insulation resistance: ≥ 500 MOhm
- Dielectric withstanding voltage: 1,000 V DC/750 V AC
- Contact resistance: ≤ 20 mOhm
- DC resistance: ≥ 0.3 Ohm
- Current rating: 1.5 A

Physical

- Dimensions (D x W x H): 102 x 482.6 x 44.2 mm (4.01 x 19 x 1.74 in.)
- Net weight: 760 g (1.68 lbs.)
- Gross weight: 870 g (1.92 lbs.)

Environmental

- Operating temperature: -40 to 70°C (-40 to 158°F)
- Storage temperature: -40 to 80°C (-40 to 176°F)
- Operating humidity (non-condensing): 10 - 90% RH

Package Contents

- Cat6a Shielded 19 inch 48-Port Patch Panel, 1U
- 10 x cable tie
- Instructions



