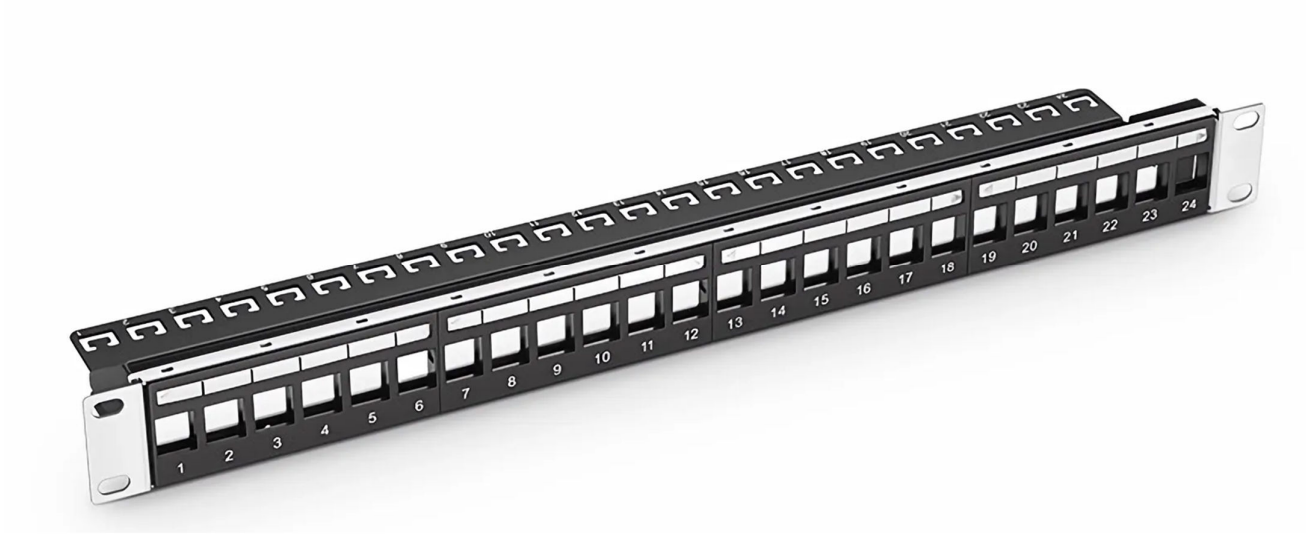
24-Port STP Patch Panel — Unloaded

24 Shielded Keystone Openings | Cat5e / Cat6 / Cat6A / Cat7 | 19" Rack Mount | 1U



1. GENERAL DESCRIPTION

24-port unloaded STP patch panel is an empty, rack-mountable shielded frame with twenty-four keystone openings, designed to be fitted with shielded keystone jacks of your choice. The conductive metal frame and grounding point keep the cable screens continuous from the cable through the jack to the rack earth, so the panel can be used with F/UTP, S/FTP and F/FTP shielded cabling of Category 5e, 6, 6A or 7 simply by installing the matching shielded jacks. It gives a flexible, tidy, EMC-protected termination point for horizontal cabling in 19-inch racks and cabinets.

2. KEY FEATURES

- Unloaded design: choose the shielded jack category and brand to match each project
- Conductive metal frame with dedicated grounding stud for continuous shield bonding to the rack earth
- 24 keystone openings with secure snap-in retention for shielded keystone jacks
- Sturdy cold-rolled steel frame, black powder-coated, with 19-inch mounting ears
- Clear port numbering (1–24) and label windows for easy identification
- Rear cable management bar to support cables and relieve strain
- Flat 1U design, compatible with standard racks and cabinets

3. APPLICATIONS

- Horizontal cabling termination in telecom rooms, data centres and equipment rooms
- Electrically noisy environments: data centres, hospitals, industrial plants and broadcast rooms
- Mixed-category installations and phased upgrades (replace jacks without changing the panel)
- Voice, data, CCTV / IP camera and PoE device connections

4. APPLICABLE STANDARDS

- EIA/ECIA-310-E — 19-inch rack mounting dimensions
- ANSI/TIA-568.2-D — Balanced twisted-pair cabling and connecting hardware (performance depends on installed jacks)
- ISO/IEC 11801 — Generic cabling for customer premises
- ANSI/TIA-607-C / EN 50310 — Bonding and grounding of telecommunications installations
- EN 50174-2 — Installation practice for screened cabling
- RoHS — [Compliant — Directive 2011/65/EU]

5. CONSTRUCTION & MATERIALS

Ports	24 keystone openings, unloaded (jacks sold separately)
Opening Size	[14.5 × 19.5 mm] standard keystone cut-out
Frame	Cold-rolled steel, [1.5 mm], black powder-coated with conductive (unpainted) contact areas
Grounding	Grounding stud [M5] with ground wire lug; frame bonded to jack shields through [metal contact tabs]
Labelling	Port numbers 1–24, with transparent icon / label windows
Cable Management	Rear cable support bar included — [shield clamp option]
Colour	Black [RAL 9005]

6. MECHANICAL & ENVIRONMENTAL

Mounting	19-inch (482.6 mm) rack mount
Height	1U — 44.45 mm
Width (over ears)	482.6 mm
Operating Temperature	[-10 °C to +60 °C]
Storage Temperature	[-40 °C to +70 °C]
Relative Humidity	[10 % to 90 %, non-condensing]

7. JACK COMPATIBILITY

Installed Jack	Cable	Frequency	Typical Use
Cat5e shielded keystone	Cat5e F/UTP	100 MHz	1000BASE-T, PoE
Cat6 shielded keystone	Cat6 F/UTP	250 MHz	1000BASE-T, short 10GBASE-T
Cat6A shielded keystone	Cat6A F/UTP / S/FTP	500 MHz	10GBASE-T over 100 m
Cat7 shielded keystone	Cat7 S/FTP	600 MHz	10GBASE-T over 100 m

8. INSTALLATION & HANDLING GUIDELINES

- Terminate the cable and its screen on each shielded keystone jack following the jack manufacturer's instructions (T568A / T568B), then snap the jack into the panel opening so its metal housing contacts the frame.
- Connect the panel grounding stud to the rack or building earth bar with the supplied ground wire (per TIA-607 / EN 50310).
- Mount the panel in the rack using four screws and cage nuts; leave clearance for cable bend radius at the rear.
- Untwist pairs by no more than 13 mm (0.5 in) at the termination point.
- Secure cables to the rear cable management bar with ties; do not over-tighten or crush the cable.
- Fit blank covers in unused openings, label each port and test every link after termination.