



Cat5e Coupler Flat Patch Panel — 24-Port

24 × RJ45 Feed-Through Couplers | Category 5e (100 MHz) | Flat | 19" Rack Mount | 1U



1. GENERAL DESCRIPTION

Cat5e coupler patch panel is a flat, rack-mountable panel fitted with twenty-four RJ45 (8P8C) feed-through couplers. Each coupler has an RJ45 socket on the front and on the rear, so ready-made patch cords can be plugged in on both sides without any punch-down or termination tools. It is ideal for connecting equipment-room patch cords to cables arriving from wall outlets, for extending links, and for creating flexible, quick-change patching points that support Gigabit Ethernet and PoE.

2. KEY FEATURES

- 24 pre-installed Cat5e RJ45 couplers (female to female) — plug and play, no tools required
- Flat 1U design with sturdy cold-rolled steel frame, black powder-coated, 19-inch mounting ears
- Gold-plated phosphor bronze contacts for stable, low-resistance connections
- Fast moves, adds and changes using standard patch cords on both sides
- Clear port numbering (1–24) and label windows for easy identification
- Supports 10/100/1000BASE-T and PoE / PoE+ (IEEE 802.3af / at)

3. APPLICATIONS

- Patching between rack equipment and pre-terminated or pulled-in cables
- Quick-connect points for temporary, mobile or reconfigurable networks
- Extending or joining existing Ethernet cable runs with no re-termination
- Test points, small networks, AV and CCTV installations

4. APPLICABLE STANDARDS

- ANSI/TIA-568.2-D — Category 5e connecting hardware
- ISO/IEC 11801 — Class D generic cabling
- IEC 60603-7 — 8-position modular connector (RJ45)



- FCC 47 CFR Part 68 — Modular jack requirements
- EIA/ECIA-310-E — 19-inch rack mounting dimensions
- UL 94 V-0 — Flammability of plastic housing materials

5. CONSTRUCTION & MATERIALS

Ports	24 × RJ45 (8P8C) Cat5e feed-through couplers (female to female), unshielded (UTP)
Coupler Housing	Flame-retardant polycarbonate, UL 94 V-0 — colour: [Grey / Black / Blue]
Contacts	Phosphor bronze, gold-plated — [50 µin / 1.27 µm]
Frame	Cold-rolled steel, [1.5 mm], black powder-coated
Panel Style	Flat (non-angled), 24 couplers in a single row
Labelling	Port numbers 1–24, with transparent icon / label windows
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
Coupler Mating Cycles (min.)	[750] cycles
Operating Temperature	[-10 °C to +60 °C]
Storage Temperature	[-40 °C to +70 °C]
Relative Humidity	[10 % to 90 %, non-condensing]

7. ELECTRICAL CHARACTERISTICS

Contact Resistance	[≤ 20 mΩ]
Insulation Resistance	[≥ 500 MΩ]
Dielectric Withstand (1 min)	[1000 V AC]
Current Rating per Contact	[1.5 A]
Max. Operating Voltage	[72 V]



8. TRANSMISSION PERFORMANCE

Frequency (MHz)	Insertion Loss — max (dB)	NEXT — min (dB)
10	0.13	63.0
16	0.16	58.9
31.25	0.22	53.1
62.5	0.32	47.1
100	0.40	43.0

9. INSTALLATION & HANDLING GUIDELINES

- Mount the panel in the rack using four screws and cage nuts.
- Plug a Cat5e (or higher) patch cord into the front and rear of each coupler until the latch clicks.
- Do not exceed the min. bending radius of the connected cords and avoid pulling on the plugs.
- Use the same or higher category for all cords in the link; mixing lower-category cords reduces channel performance.
- Label each port and test every link after patching.