

Cat5e Patch Cord

Blue Cat5e UTP Patch Cord — 1Gbps Gigabit Network Cable, Factory Direct OEM/Wholesale

**Key specifications**

Category	Cat5e (Category 5 enhanced), UTP unshielded
Performance Standard	ANSI/TIA-568.2-D, ISO/IEC 11801 Class D, EN 50173-1
Bandwidth	Up to 350 MHz
Data Rate	10/100/1000 Mbps up to 100 m; 10GBASE-T short-reach (≤45 m)

Product summary

- **Category:** Cat5e UTP unshielded, blue PVC jacket, 4-pair 24AWG 7/0.20mm stranded bare copper
- **Performance:** 1 Gbps Gigabit Ethernet up to 100 m, 350 MHz bandwidth, ANSI/TIA-568.2-D certified
- **Connectors:** 8P8C RJ45 plugs on both ends, 3μ"-50μ" gold-plated phosphor bronze contacts
- **Boots:** Blue-molded snagless PVC strain-relief boots with latch protection, color-matched to jacket
- **Wiring:** TIA/EIA-568B straight-through (T568A / crossover available on OEM order)
- **Testing:** 100% Fluke DSX-8000 tested — wire map, NEXT, Return Loss, Insertion Loss, length
- **Standard lengths:** 0.25 m / 0.5 m / 1 m / 1.5 m / 2 m / 3 m / 5 m / 7 m / 10 m / 15 m / 20 m / 30 m
- **Packaging:** Individual clear poly bag with two white Velcro ties, "QC PASSED" inspection sticker; bulk 100pcs/box
- **Certifications:** RoHS 2.0, REACH, ISO/IEC 11801, UL CM flame rating (CMR/LSZH optional)
- **MOQ:** 100 pcs stock; 500 pcs OEM (custom length, boot color, jacket printing)

Product page:

<https://www.cnplugs.com/product/blue-cat5e-utp-patch-cord/>

Category: Cat5e Patch Cord

Contact & technical support

Email	austin@cnplugs.com
Call / WhatsApp	+86 134 2850 9915
Business hours	Monday-Saturday, 08:30-18:00 (UTC+8)
Contact page	www.cnplugs.com/contact-us/

Product details

Blue Cat5e UTP Patch Cord — Gigabit-Grade Network Cables From a Specialist RJ45 Manufacturer

Why Blue? Color-Coding Standards in Structured Cabling

In commercial structured cabling, jacket color is not aesthetic — it is an administration tool defined by TIA-606-C labeling standards and by the internal conventions of most large enterprise networks. [Structured cabling](#) practice typically reserves blue for horizontal workstation and data connections (the run from wall outlet to end device or from patch panel to switch), making blue patch cords the most-consumed SKU in any IT department. Using a consistent blue for all standard data ports lets technicians immediately distinguish data runs from VoIP phone drops (often gray or white), IP cameras / security (often red or yellow), and critical uplinks / cross-connects (often orange or green) without tracing a single cable.

Our blue Cat5e cords are molded with a color-matched blue snagless boot so the color coding carries through to the connector itself, even when dozens of cords are densely dressed in a cable manager. We can also supply the same cord in the full TIA color palette (gray, white, black, red, yellow, green, orange) on the same tooling, enabling one-supplier color-coding across an entire installation.

Applications for Blue Cat5e Patch Cords

- **Office & enterprise work-area patching:** Wall outlet to desktop PC, IP phone, printer, dock or wireless access point — the standard blue data cord in every commercial cabling project.
- **Rack & equipment room patching:** Short 0.25 m–1 m blue jumpers between patch panels and Ethernet switches in MDF/IDF closets, color-coded to identify general data ports.
- **Education, government & corporate IT:** Blue is the most specified color in bid documents for public-sector and education cabling contracts.
- **IP surveillance & PoE lighting:** Reliable connectivity for PoE IP cameras, PoE+ wireless APs and PoE LED lighting controllers within the 100 m channel limit.
- **Retail POS & hospitality:** Multi-lane retail POS networks, hotel in-room Internet, and convention-center temporary networks.
- **Home & SOHO networks:** Router-to-PC, router-to-switch, NAS, smart TV, gaming console and home-office connections.

For links running alongside VFD power cables or through high-EMI industrial environments, step up to our shielded [Cat6A STP patch cords with zinc-alloy RJ45 shells](#), or use our [industrial and VFD-rated connector line](#) for motor-control cabinets.

What Makes PROUNTA Blue Cat5e Cords Different

Blue patch cords are a commodity on paper, but failure rates vary dramatically across suppliers. Here is how we control the variables that cause callbacks:

- **Bare stranded copper, not CCA:** Copper-clad aluminum conductors have higher DC resistance, run hot under PoE load, and fail within months. We use pure 24 AWG stranded bare copper.
- **Our own RJ45 plugs:** The connectors on these cords are [manufactured in our own Dongguan plant](#) — phosphor bronze contacts stamped in-house, gold plated in our own plating line, fully traceable.
- **Controlled pair geometry:** Twist lay is maintained to within 13 mm of the IDC crimp, the maximum allowed by TIA-568, protecting NEXT performance.
- **100% Fluke testing:** Every cord passes through an automated Fluke DSX-8000 test cell; anything that fails wire map, NEXT, return loss or insertion loss is cut and re-terminated.
- **Molded snagless boots:** Blue PVC boots are injection-molded onto the cable jacket (not hand-slipped), giving strong strain relief and a latch protector that survives thousands of MACs (moves/adds/changes).
- **Consistent blue color:** Jacket and boot use the same Pantone-matched blue across production batches, so reorders from the same project always match existing installations.

Q: What does the "e" in Cat5e stand for?

A: The "e" stands for "enhanced." Original [Category 5 cable](#) was rated to 100 MHz and 100 Mbps Fast Ethernet.

Cat5e tightened the specifications for near-end crosstalk (NEXT), power-sum NEXT (PSNEXT), return loss (RL) and equal-level far-end crosstalk (ELFEXT), raising the rated bandwidth to 350 MHz and certifying Gigabit Ethernet (1000BASE-T) operation up to 100 meters. Cat5 is obsolete for new installs; Cat5e is the minimum category we recommend.

Q: Is this cable solid or stranded?

A: Patch cords use stranded conductors for flexibility and bend-fatigue resistance. Solid-conductor cable is for permanent in-wall / horizontal runs and terminates on keystone jacks or patch panels. Using a solid-conductor "patch cord" for desk connections will cause premature conductor breakage at the plug.

Q: Which color standard do you use, T568A or T568B?

A: Stock blue Cat5e cords are straight-through T568B — the dominant standard in the US, Asia and most of the world. T568A straight-through and crossover (old PC-to-PC or hub-to-hub) pinouts are available on OEM orders at no surcharge. As long as both ends of a single cord match, electrical performance is identical.

Q: Can blue Cat5e patch cords support PoE?

A: Yes. Standard 3μ"-6μ" gold-plated versions fully support IEEE 802.3af (15.4W) and 802.3at PoE+ (30W) for IP phones, cameras and Wi-Fi access points. For 802.3bt PoE++ at 60–90 W (PTZ cameras, LED lighting, Wi-Fi 6/7 APs) we recommend ordering 15μ" or thicker gold plating.

Q: Can I get free samples?

A: Yes. Free samples of stock blue Cat5e cords are available to qualified business accounts; the recipient covers international shipping. Request via our [sample request form](#).

Bulk Supply, Project Bids & OEM Quotations

Technical specifications

Specification	Published value
Category	Cat5e (Category 5 enhanced), UTP unshielded
Performance Standard	ANSI/TIA-568.2-D, ISO/IEC 11801 Class D, EN 50173-1
Bandwidth	Up to 350 MHz
Data Rate	10/100/1000 Mbps up to 100 m; 10GBASE-T short-reach (≤45 m)
Conductor	24 AWG (7/0.20 mm) stranded bare copper (pure BC), no CCA
Insulation	High-density Polyethylene (HDPE), 0.92 mm nominal
Twisted Pairs	4 pairs (8 conductors), varied pair lay lengths for crosstalk cancellation
Jacket Material	Premium blue PVC (CM flame rating); CMR riser / LSZH / Plenum optional
Jacket Outer Diameter	5.0 ± 0.2 mm
Jacket Color	Standard blue (Pantone 286C / TIA blue); other colors on request
Connector	8P8C RJ45 male plug, transparent PC housing, both ends
Contact Plating	3μ", 6μ", 15μ", 30μ" or 50μ" gold over 50μ" nickel on phosphor bronze
Boot	Injection-molded blue snagless PVC strain-relief boot (color-matched to jacket)
Wiring Scheme	TIA/EIA-568B straight-through (568A / crossover available on request)
Standard Lengths	0.25 m / 0.5 m / 1 m / 1.5 m / 2 m / 3 m / 5 m / 7 m / 10 m / 15 m / 20 m / 30 m
PoE Support	IEEE 802.3af/at (PoE 15.4W / PoE+ 30W); 15μ"+ gold recommended for PoE++ (60/90W)
Temperature Range	Operating: -20 °C to +60 °C; Storage: -40 °C to +75 °C
Flame Rating	UL 1581 VW-1 / CM; CMR riser and IEC 60332-1 LSZH available on OEM

Specification	Published value
Certifications	RoHS 2.0, REACH, ISO 9001; ETL/UL listed patch cord program available
Testing	100% Fluke DSX-8000 — wire map, length, NEXT, PSNEXT, RL, IL, ACR-F; batch reports on request
Packaging	Individual clear polybag with two white Velcro cable ties; bulk 100 pcs/box, 1000 pcs/carton