

Standard Cat6 & Cat5e Plugs

8P4C Unshielded RJ45 Modular Plug - CAT5e/CAT6 UTP Ethernet, Gold-Plated Contacts (100-Pack)

**Key specifications**

Model / Type	8P4C UTP modular plug, 8-position / 4-contact, one-piece, cable mount
Loaded Contact Positions	Center positions 3, 4, 5, 6 (2-pair layout)
Contact Base Material	Pure copper alloy, 0.35mm, non-magnetic (no iron core)
Contact Design / Termination	3-prong (tri-fork) IDC blades for solid & stranded wire

Product summary

- **8P4C unshielded modular plug** — standard RJ45-size (8-position) body loaded with 4 gold plated contacts in the center positions, for 2-pair voice and data links
- **Pure copper contact blades** (non-magnetic, no iron core) with 3-prong tri-fork design — reliable IDC termination on solid & stranded 24-26AWG wire
- **Gold plating 3μ"-50μ"** optional over nickel barrier; contact resistance $\leq 20\text{m}\Omega$, 750+ mating cycles, FCC Part 68 compliant
- **Ideal for telephone / PBX trunk lines, POS terminals, 2-pair industrial Ethernet (10/100BASE-TX), and DSL splitter cords** — saves cost vs fully loaded 8P8C
- **Custom logo & private label:** laser engraving from 10,000 pcs or in-mold embossing, plus OEM printed bags, boxes, and cartons
- **Free samples for qualified B2B buyers** — 100% virgin PC housing, UL 94V-2, RoHS/REACH/CE, 7-15 day lead time, 50M+ pcs monthly capacity

Product page:

<https://www.cnplugs.com/product/8p4c-unshielded-rj45-modular-plug-cat5e-cat6-utp-bulk/>

Category: Standard Cat6 & Cat5e Plugs

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Product details

8P4C UTP Modular Plug - Pure Copper Gold Plated 4-Contact Connector with Custom Logo and Free Samples

PROUNTA is a factory-direct modular plug manufacturer with in-house pin stamping, electroplating, injection molding, laser marking, and 100% electrical testing, shipping 50M+ pcs monthly to telecom distributors, cable assembly plants, and OEM brands worldwide. This 8P4C is available with your custom logo, full private-label packaging, and free samples so you can validate it on your own production line before ordering.

What Exactly Is an 8P4C Plug?

Modular connectors are named by positions and contacts: 8P4C means an 8-position housing with 4 contacts installed. The body dimensions (22.4 × 11.6 × 8.0mm) are identical to the familiar RJ45-size plug, so it mates with any standard 8-position jack and crimps with any standard 8P crimping tool. Only the center four positions carry blades, which aligns with the pinout used by one- and two-pair services: the blue pair on pins 4-5 and the second pair on pins 3-6 — the layout behind analog phone lines on structured cabling, RJ61-style voice wiring, and two-pair Ethernet. Industrial automation vendors, including major PLC brands, specify 8P4C plugs for exactly this reason: 10/100BASE-TX needs only two pairs, and fewer loaded contacts means fewer termination points to inspect. If your application needs all four pairs, see our fully loaded [Cat5e & Cat6 8P8C plugs](#) instead.

Pure Copper Contacts - No Iron Core, No Hidden Failures

Each of the four blades is stamped from solid pure copper alloy strip — never iron-core or copper-clad steel, which commodity suppliers hide behind a thin gold flash. The difference is verifiable with a magnet (copper never sticks) and measurable in service: lower bulk resistance for clean voice levels and stable data, no internal rust when humidity penetrates the plating, and ductile crimping that stays gas-tight for the life of the link. Blades are 0.35mm thick, nickel underplated, and finished in hard gold from 3μ" to 50μ" — specify the grade per your market, from cost-driven telephone cords to premium industrial assemblies. Every copper lot ships with material certificates, and we support third-party spectrometer verification (SGS/TÜV) on request.

Free Samples and Custom Logo Program

Where 8P4C Saves Money Without Cutting Corners

Telecom assembly plants building phone patch cords and DSL splitter leads save four gold contacts per plug versus 8P8C at identical line speed. POS and payment terminal makers use 8P4C for serial and phone-line ports where only center pins are wired. Industrial panel builders running two-pair [Ethernet](#) to HMIs and drives get fewer terminations to validate. And telecom operators bundling branded install kits cut consumable cost across millions of drops. Because the body is standard 8-position, your existing 8P crimp tools, strippers, and jacks all work unchanged — no retooling required.

Order Samples First, Then Scale with Your Brand

Q1: Will an 8P4C plug fit a normal RJ45 jack and crimping tool?

Yes. The housing is a standard 8-position body with identical dimensions to an 8P8C plug, so it mates with any compliant 8-position jack and crimps with any standard 8P tool. Only the four center contact slots are loaded.

Q2: Can I use 8P4C for Gigabit Ethernet?

No. 1000BASE-T requires all four pairs (8 contacts). 8P4C supports two-pair services: 10BASE-T, 100BASE-TX, analog voice, DSL, and serial/POS wiring. For Gigabit and PoE++ applications, choose our 8P8C Cat5e or Cat6 plugs.

Q3: How do I get free samples and what should I test?

Send an inquiry with your company details and application. We ship 20-50 pcs free to qualified B2B buyers. We recommend testing crimp height with your tool dies, conductor pull-out force, continuity on pins 3-6, and the magnet test to confirm pure copper.

Q5: Can you load different contact positions or supply 8P2C / 10P versions?

Yes. As an ODM factory we can load custom contact positions (e.g., pins 1-2/7-8 for special pinouts), supply 8P2C, 8P6C, or 10P10C variants, and match housing tint colors to your brand. Share your wiring diagram and our engineers will confirm feasibility within 24 hours.

Technical specifications

Specification	Published value
Model / Type	8P4C UTP modular plug, 8-position / 4-contact, one-piece, cable mount
Loaded Contact Positions	Center positions 3, 4, 5, 6 (2-pair layout)
Contact Base Material	Pure copper alloy, 0.35mm, non-magnetic (no iron core)
Contact Design / Termination	3-prong (tri-fork) IDC blades for solid & stranded wire
Gold Plating	3μ" / 6μ" / 15μ" / 30μ" / 50μ" over nickel, optional
Housing Material	Transparent polycarbonate (PC)
Compatible Cable	1-2 pair UTP / telephone flat or round cable, 24-26AWG
Insulated Wire OD / Jacket OD	0.80-1.02mm (0.031"-0.040") / ≤6.0mm (0.236")
Applications	Telephone / PBX, POS, DSL, 2-pair 10/100BASE-TX Ethernet, RJ61-style voice
Durability	≥750 insertion cycles; contact resistance ≤20mΩ
Dimensions	22.4 × 11.6 × 8.0mm (0.88" × 0.46" × 0.31") — standard 8P body
Standards	FCC Part 68, IEC 60603-7, ANSI/TIA-1096-A dimensional compliance
Certifications	RoHS, REACH, CE, UL; 100% electrical continuity tested; material certs
Logo / Samples / Lead Time	Laser or mold logo; free samples; 7-15 days after approval