

Standard Cat6 & Cat5e Plugs

Oxygen-Free Copper Cat5e RJ45 Connector UTP Modular Plug 8P8C - Custom Logo, 3-Prong 50μ" Gold Plated OFC Contacts, Wholesale & Retail Packs, 100% Virgin PC

**Key specifications**

Model / Type	Cat5e UTP RJ45 modular plug, 8P8C, one-piece, custom logo
Contact Base Material	Oxygen-free copper (OFC), 99.99% purity, conductivity >101% IACS
Contact Design / Plating	3 prongs (tri-fork); nickel underplate + 3μ"/6μ"/15μ"/30μ"/50μ" gold optional
Logo Options	Laser engraving (MOQ 10,000 pcs) or in-mold embossing (MOQ 100,000 pcs)

Product summary

- **Cat5e UTP 8P8C RJ45 plug with oxygen-free copper (OFC) contacts** — 99.99% high-purity copper base for ultra-low impedance and stronger signal integrity
- **3-prong gold plated blades (3μ"-50μ" optional)** terminate solid & stranded 24-26AWG wire; PoE / PoE+ / PoE++ (802.3bt, up to 100W) safe
- **Custom logo & private label:** laser engraving or in-mold embossing, plus branded retail bags, boxes, and master cartons under your name
- **Wholesale AND retail-ready:** bulk 1000 pcs/box for distributors, or resealable 20/50/100 pc retail packs with your barcode and artwork
- **100% virgin PC (polycarbonate) housing** — crystal clear, UL 94V-2, no recycled resin; rated to 100MHz per ANSI/TIA-568 Cat5e
- **Factory direct:** 100% Fluke DSX tested, RoHS/REACH/CE/UL, free logo mockup in 24h, MOQ from 10,000 pcs, 7-15 day lead time

Product page:

<https://www.cnplugs.com/product/oxygen-free-copper-cat5e-rj45-connector-custom-logo/>

Category: Standard Cat6 & Cat5e Plugs

Contact & technical support

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Product details

Oxygen-Free Copper Cat5e UTP RJ45 Connector - Custom Logo 3-Prong Gold Plated Plug for Wholesale & Retail

The oxygen-free copper Cat5e unshielded RJ45 modular plug from PROUNTA is built for buyers who read past the marketing and into the metal. While ordinary plugs use standard brass contacts, this connector's 3-prong blades are stamped from 99.99% high-purity [oxygen-free copper](#) (OFC), then nickel-barriered and finished in hard gold up to 50µ". The result is measurably lower contact impedance, cooler running under Power over Ethernet loads, and more consistent Fluke test margins across production batches. Add your brand logo by laser engraving or in-mold embossing, choose bulk cartons for wholesale or resealable retail packs for shelf sales, and you have a complete branded product line ready for [Category 5e cable](#) networks running Fast Ethernet, Gigabit (1000BASE-T), and PoE up to 100W.

PROUNTA is a factory-direct RJ45 connector manufacturer with in-house pin stamping, electroplating, injection molding, laser marking, and 100% Fluke DSX component testing — one accountable partner from raw copper strip to branded carton, with 50M+ pcs monthly capacity.

Why Oxygen-Free Copper Contacts Matter

Oxygen-free copper is refined to remove oxide impurities, leaving 99.99%+ pure copper with conductivity above 101% IACS — higher than the brass alloys used in commodity plugs. In an RJ45 contact, that purity translates into three practical advantages. First, lower bulk resistance: less voltage drop and less heat at the contact point, which matters most on PoE+ and PoE++ (IEEE 802.3bt) links delivering up to 100W to cameras, access points, and displays. Second, better high-frequency behavior: cleaner conduction across the 1–100MHz Cat5e band, giving wider insertion-loss and return-loss margins in Fluke certification. Third, superior plating adhesion: OFC's uniform grain structure accepts nickel and gold layers evenly, so the 50µ" gold finish stays intact through 750+ mating cycles instead of flaking at grain boundaries. Retail buyers increasingly search for "oxygen free copper" as a quality marker — putting genuine OFC behind your logo turns that search demand into your sales.

One Product, Two Channels: Wholesale Bulk and Retail Packs

Most factories force you to choose between bulk bags and retail packaging. This program supports both from the same production line. For wholesale and project distribution, plugs ship 100 pcs per PE bag and 1,000 pcs per inner box in export cartons — the lowest cost per piece for installers and cable assembly plants. For retail and e-commerce, we pack 20, 50, or 100 pieces in resealable zip bags, printed boxes, or hanging blister cards carrying your logo, barcode, multilingual labels, and regional compliance marks. Amazon-ready packaging with FNSKU labeling is available for e-commerce brands. Run both channels under one brand identity, reorder each format independently, and consolidate them in a single container.

Custom Logo: Laser Engraving or In-Mold Embossing

Applications and Target Buyers

OFC Cat5e plugs are the preferred consumable for CCTV and IP camera distributors bundling connectors with NVR kits, e-commerce brands selling termination kits on Amazon and regional marketplaces, ISP contractors standardizing on PoE-safe components, electrical wholesalers building house brands, and patch cord factories serving quality-sensitive export markets. Built to the universal 8P8C modular connector geometry, the plug crimps with all standard RJ45 tools and inter-mates with every compliant jack, router, switch, and patch panel.

OEM Process and Related Products

Q1: How can I verify the contacts are genuine oxygen-free copper, not brass?

We supply material certificates for each copper strip lot and support third-party verification (SGS/TÜV spectrometer analysis) on pre-shipment samples. OFC blades are also visually distinguishable in cross-section — we provide cut-sample photos with the first article report.

Q2: What is the real benefit of OFC for PoE applications?

Lower bulk resistance means less heat at the contact point under sustained current. On 802.3bt (100W) links, cooler contacts protect against the resistance creep that degrades cheap brass plugs over time — fewer field failures and warranty claims under your brand.

Q3: Can I order wholesale bulk and retail packs in the same shipment?

Yes. Both formats run from the same production batch and consolidate in one container. Many customers order 70% bulk for project distribution and 30% retail packs for online stores, all under one logo program.

Q5: Do you provide samples and test reports before I commit?

Yes. Free unbranded samples ship to qualified B2B buyers, branded pre-production samples follow the free digital mockup, and every mass-production batch includes Fluke DSX-8000 component test documentation plus plating thickness records.

Technical specifications

Specification	Published value
Model / Type	Cat5e UTP RJ45 modular plug, 8P8C, one-piece, custom logo
Contact Base Material	Oxygen-free copper (OFC), 99.99% purity, conductivity >101% IACS
Contact Design / Plating	3 prongs (tri-fork); nickel underplate + 3μ"/6μ"/15μ"/30μ"/50μ" gold optional
Logo Options	Laser engraving (MOQ 10,000 pcs) or in-mold embossing (MOQ 100,000 pcs)
Packaging Options	Wholesale: 100 pcs/bag, 1000 pcs/box; Retail: 20/50/100 pc resealable bags, printed boxes, blister cards, FNSKU-ready
Housing Material	Transparent polycarbonate (PC)
Compatible Cable	Cat5e/Cat5 UTP, solid or stranded, 24-26AWG
Insulated Wire OD / Jacket OD	0.80–1.02mm (0.031"–0.040") / ≤6.0mm (0.236")
Frequency / Application	100MHz; 100BASE-TX, 1000BASE-T; PoE / PoE+ / PoE++ (802.3bt, up to 100W)
Durability	≥750 insertion cycles; contact resistance ≤20mΩ
Dimensions	22.4 × 11.6 × 8.0mm (0.88" × 0.46" × 0.31")
Standards	ANSI/TIA-568.2-D Cat5e, ISO/IEC 11801, FCC Part 68, IEC 60603-7
Certifications	RoHS, REACH, CE, UL; 100% Fluke DSX component tested; SGS reports available
Lead Time	7–15 days after logo/packaging approval