

Standard Cat6 & Cat5e Plugs

Cat5e RJ45 Connector UTP Unshielded Modular Plug 8P8C - 3-Prong 50μ" Gold Plated Contacts, 100% Virgin PC Material, Bulk & OEM

**Key specifications**

Model / Type	Cat5e UTP RJ45 modular plug, 8P8C, one-piece
Contact Blade	3-prong (3μ tri-fork) insulation displacement contact
Pin Material	Phosphor bronze, nickel underplated
Gold Plating	3μ" / 6μ" / 15μ" / 30μ" / 50μ" optional

Product summary

- **Cat5e UTP 8P8C RJ45 modular plug** for solid & stranded 24-26AWG Ethernet cable, rated to 100MHz / 1000BASE-T
- **3-prong (3μ tri-fork) contact blades** ensure reliable IDC piercing on stranded and solid conductors
- **Gold plated phosphor bronze pins** (3μ"-50μ" options) for low contact resistance and 750+ insertion cycles
- **100% virgin PC (polycarbonate) housing** - crystal clear, high impact strength, UL 94V-2 flame retardant, no recycled resin
- **100% Fluke DSX tested**, compliant with TIA/EIA-568, ISO/IEC 11801, FCC Part 68; RoHS & REACH certified
- **Factory-direct OEM/ODM** - custom packaging, private label, 50M+ pcs monthly capacity, low MOQ, fast lead time

Product page:

<https://www.cnplugs.com/product/cat5e-utp-rj45-connector-3-prong-gold-plated-plug/>

Category: Standard Cat6 & Cat5e Plugs

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Product details

Cat5e UTP RJ45 Connector - 3-Prong Gold Plated Modular Plug Made of 100% Virgin PC Material

The Cat5e unshielded RJ45 modular plug from PROUNTA is a factory-direct 8P8C connector engineered for network installers, cable assembly factories, telecom distributors, and OEM brands that demand consistent termination quality at high volume. Manufactured with 3-prong gold plated contacts and a housing molded from 100% virgin polycarbonate, this connector delivers stable transmission performance up to 100MHz, fully supporting Fast Ethernet and Gigabit [Ethernet](#) (1000BASE-T) applications over [Category 5e cable](#).

As a certified RJ45 connector manufacturer, we control every production step in-house — from pin stamping and gold electroplating to precision injection molding and 100% Fluke DSX component testing — ensuring every carton you receive performs identically, batch after batch.

Why Choose a 3-Prong Contact Design?

The contact blade is the heart of any modular plug. This Cat5e connector uses a 3-prong (tri-fork) insulation displacement contact: three staggered piercing tines penetrate the conductor insulation from alternating angles and bite directly into the copper core. Compared with 2-prong designs, the 3-prong structure provides a larger, more redundant contact area, which means lower and more stable contact resistance, better crimp tolerance on both solid and stranded wire, and stronger cable retention under vibration or repeated flexing. For patch cord factories running automated crimping lines, 3-prong contacts significantly reduce open-circuit rejects and re-crimp rates.

Gold Plated Contacts for Long-Term Reliability

Each contact pin is stamped from high-elasticity phosphor bronze, plated first with nickel as a diffusion barrier, then finished with hard gold. Standard plating options include 3μ", 6μ", 15μ", 30μ" and 50μ" gold thickness, so purchasing teams can match plating grade precisely to their project budget and durability requirements. Gold plating resists oxidation and sulfidation in humid or corrosive environments, keeping insertion loss and return loss stable over 750+ mating cycles. All plating batches are verified by X-ray thickness measurement and salt spray testing, with reports available on request.

100% Virgin PC Housing - No Recycled Material

Many low-cost plugs on the market are molded from recycled or blended resin, which causes brittle latches, cloudy housings, and cracking during crimping. This connector is molded exclusively from 100% virgin polycarbonate (Teijin/Covestro grade). The result is a crystal-clear body that makes wire sequence inspection easy, a flexible latch that survives repeated plugging without snapping, and UL 94V-2 flame-retardant performance that satisfies structured cabling safety requirements. Virgin PC also maintains dimensional accuracy within ±0.05mm, guaranteeing smooth insertion into any standard RJ45 jack or keystone.

Applications

This unshielded Cat5e plug is a proven workhorse for enterprise office cabling, FTTx and telecom last-mile drops, PoE IP camera and access point installation, smart building and hotel network wiring, and high-volume patch cord manufacturing. Because it follows the standardized 8P8C [modular connector](#) geometry, it is fully backward compatible with Cat5 systems and inter-mateable with all standard RJ45 jacks, couplers, and patch panels.

OEM/ODM & Bulk Ordering Support

Q1: Does this 3-prong plug work with both solid and stranded cable?

Yes. The 3-prong contact is specifically designed for dual compatibility — it pierces stranded conductors cleanly and straddles solid conductors securely, making it ideal for both field termination and factory patch cord production.

Q3: Is this connector compatible with standard RJ45 crimping tools?

Yes. It fits all standard 8P8C crimping tools (non-pass-through type). No proprietary tooling is required.

Q4: Can you provide free samples and Fluke test reports?

Absolutely. Free samples are available for qualified B2B buyers, and each production batch ships with Fluke DSX-8000 component test documentation.

Technical specifications

Specification	Published value
Model / Type	Cat5e UTP RJ45 modular plug, 8P8C, one-piece
Contact Blade	3-prong (3μ tri-fork) insulation displacement contact
Pin Material	Phosphor bronze, nickel underplated
Gold Plating	3μ" / 6μ" / 15μ" / 30μ" / 50μ" optional
Housing Material	Transparent polycarbonate (PC)
Compatible Cable	Cat5e/Cat5 UTP, solid or stranded, 24-26AWG
Cable OD / Insulated Wire OD	≤6.0mm / 0.80-1.02mm
Frequency / Application	100MHz; 100BASE-TX, 1000BASE-T, PoE / PoE+ (IEEE 802.3af/at)
Durability	≥750 insertion cycles; contact resistance ≤20mΩ
Operating Temperature	-40°C to +70°C
Standards	TIA/EIA-568-B.2, ISO/IEC 11801, FCC Part 68, IEC 60603-7
Certifications	RoHS, REACH, CE, UL; 100% Fluke DSX component tested
Packaging	100 pcs/bag, 1000 pcs/box; OEM bags, tubs, blister packs available