

Standard Cat6 & Cat5e Plugs

Cat5e RJ45 Connector with 0.4mm Thick Pure Copper Contacts - UTP 8P8C Modular Plug, 50µ" Gold-Plated 3-Prong Blades, 100% Virgin PC Housing, Custom Logo OEM, Free Samples

**Key specifications**

Model No.	PR-C5E-04 (Cat5e, 0.4 mm contact)
Category / Standard	Cat5e, ANSI/TIA-568.2-D, ISO/IEC 11801 Class D
Configuration	8 Position 8 Contact (8P8C), one-piece, no load bar required
Shielding	UTP / unshielded

Product summary

0.4 mm Thick Contact Blades – Heavy-gauge stamped contacts, roughly 30% thicker than the 0.30 mm blades used in many premium-branded plugs, for higher spring force, deeper insulation piercing and resistance to bending during crimping. Pure Copper Alloy (Phosphor Bronze) Contacts – Genuine copper-alloy blades with the hardness needed to pierce conductor insulation cleanly; never iron or steel-plated stock that corrodes and loses tension. 50µ" Gold Over Nickel – Contact resistance ≤ 20 mΩ, 750+ mating cycles, 48-hour salt-spray verified. 3µ", 15µ" and 30µ" plating options available for cost-sensitive volumes. 3-Prong IDC Design – Three points of contact per conductor instead of two, gripping 24–26 AWG solid and stranded copper securely for both permanent links and patch-cord production. 100% Virgin Polycarbonate Housing – Water-clear, impurity-free body rated UL 94V-0; the latch survives repeated 180° flexing without snapping, unlike cloudy recycled-PC plugs. Verified Cat5e Performance – 100 MHz bandwidth, full 1000BASE-T Gigabit support, 100% Fluke DSX-8000 tested to ANSI/TIA-568.2-D and ISO/IEC 11801 Class D. PoE / PoE+ / PoE++ Ready – 1.5 A per contact, IEEE 802.3af/at/bt to 90 W; thicker blades carry PoE current with less heat rise at the contact interface. Backward and Forward Compatible – Works with Cat5, Cat5e and Cat6 UTP cable and every standard RJ45 jack. Custom Logo & Private Label – Laser marking or mold-engraved logo, custom housing tints, OEM bags, 50/100 pcs jars, blister cards and branded cartons. Low MOQ for new brands. Free Samples, Factory Direct – Free sample kit worldwide, 50M+ pcs/month capacity, ISO 9001 / RoHS / REACH, Fluke test report with every batch.

Product page:

<https://www.cnplugs.com/product/cat5e-rj45-connector-0-4mm-thick-copper-contacts/>

Category: Standard Cat6 & Cat5e Plugs

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Product details

Cat5e RJ45 Connector with 0.4 mm Pure Copper Contacts: Heavy-Gauge 8P8C UTP Modular Plug Built to Outlast Thin-Stamped Plugs

The Prounta Cat5e RJ45 connector is an unshielded 8P8C modular plug built around one specification most suppliers never publish: a 0.4 mm thick contact blade. Contact thickness is where low-cost factories quietly remove material, because a thinner stamping looks identical in a photograph and costs measurably less per thousand. It is also the difference between a plug that holds contact tension for a decade and one that develops intermittent links within months. At 0.4 mm, these blades are roughly 30% thicker than the 0.30 mm contacts specified by well-known premium brands, and you can verify it with a micrometer on the free samples we ship before you order. Combined with pure copper alloy metallurgy, 50µ" gold plating and 100% virgin polycarbonate, this is a Cat5e plug specified for installers who get paid to not come back.

Why 0.4 mm Contact Thickness Is the Spec That Matters

Pure Copper Alloy Metallurgy and Honest Material Specification

We describe these contacts precisely: they are stamped from pure copper alloy — phosphor bronze — then nickel-plated and finished with gold. That precision is deliberate. Some suppliers advertise "100% oxygen-free copper" pins, but genuinely pure copper is too soft to pierce conductor insulation reliably and would take a permanent set instead of springing back; the industry standard for IDC blades is phosphor bronze for exactly this reason. What actually separates a quality plug from a poor one is not an unattainable purity claim but whether the base metal is a genuine copper alloy at all, rather than iron or steel with a thin copper flash. Iron-cored contacts rust, lose spring temper and fail salt-spray testing. Ours are copper alloy through the full 0.4 mm section, with 50µ" gold over a nickel barrier for corrosion resistance and 750+ mating cycles. For shielded applications requiring the same contact quality inside a metal shell, see our [Cat6A and Cat8 shielded plug range](#).

Housing Quality: What to Look For

The housing tells you as much about a plug as the metal does. A quality body moulded from 100% virgin polycarbonate is water-clear or faintly blue and free of specks and cloudiness; a hazy, grey-tinged body indicates recycled resin with unpredictable mechanical properties. The latch is the second tell — ours withstands fifteen 180° flexes without fracturing, whereas brittle recycled-PC latches snap during installation and leave a plug that will not retain in the jack. Wire channels are moulded to a consistent bore so conductors seat fully against the blades rather than stopping short. Compare the same construction in our [Cat5e UTP RJ45 connector with 3-prong gold contacts](#) or step up to the [Cat6 UTP modular plug with load bar](#).

Custom Logo, Private Label and OEM Packaging

Distributors and cabling brands can ship this plug under their own name. Options include laser marking and mold-engraved logos on the housing, custom body tints, and full retail packaging — poly bags, screw-top jars, blister cards, colour boxes and master cartons with your barcode and SKU. Drawings and 3D renderings are approved before tooling. See comparable private-label work on our [custom logo Cat5e RJ45 connector](#) and the [pure copper connector free-sample program](#).

How can I verify the 0.4 mm thickness? Measure a contact blade with a micrometer or digital calipers on the free samples we send. We publish the number precisely so it can be checked — that is the point of stating it.

Is Cat5e still worth specifying? Yes. Cat5e carries full 1000BASE-T Gigabit Ethernet over 100 m and remains the volume choice for offices, hotels, VoIP and PoE camera drops where 10G is not required. Background at [Category 5 cable](#).

Can these plugs be used on Cat6 cable? On thinner Cat6 with conductor insulation up to 1.05 mm, yes. For thicker 23 AWG Cat6, use a plug with a larger bore such as our [standard Cat6 and Cat5e plug range](#).

Do I need a load bar? No. This is a one-piece design; conductors insert directly and a standard 8P8C ratchet crimpers completes the termination. For feed-through verification instead, see our [pass-through RJ45 plugs](#).

Why choose 50µ" gold over 3µ"? Plating thickness governs how many insertion cycles and how much humidity the contact survives before base metal exposes and oxidises. 50µ" suits PoE, coastal and high-

reinsertion environments; 3μ" to 15μ" is economical for sealed, low-cycle installations.

Technical specifications

Specification	Published value
Model No.	PR-C5E-04 (Cat5e, 0.4 mm contact)
Category / Standard	Cat5e, ANSI/TIA-568.2-D, ISO/IEC 11801 Class D
Configuration	8 Position 8 Contact (8P8C), one-piece, no load bar required
Shielding	UTP / unshielded
Contact Blade Thickness	0.4 mm (0.0157")
Contact Material	Pure copper alloy / phosphor bronze
Contact Plating	50μ" gold over nickel (3μ" / 15μ" / 30μ" optional)
IDC Prongs	3-prong, solid & stranded compatible
Housing Material	Transparent polycarbonate (PC)
Bandwidth	100 MHz
Data Rate	1000BASE-T Gigabit Ethernet
Conductor Size	24–26 AWG; insulated OD 0.90–1.05 mm
Cable Jacket OD	Up to 6.0 mm
Current Rating	1.5 A per contact (PoE / PoE+ / PoE++ 802.3bt, 90 W)
Voltage Rating	150 V AC (rms)
Contact Resistance	≤ 20 mΩ
Insulation Resistance	≥ 500 MΩ @ 500 V DC
Dielectric Strength	1000 V AC / 1 minute, no breakdown
Durability	≥ 750 mating cycles
Latch Flex Test	15× 180° flex without fracture
Salt Spray	48 hours, no visible corrosion
Operating Temperature	-40 °C to +85 °C
Compliance	RoHS, REACH, ISO 9001, UL-recognised material
Packaging	100 pcs/bag, 50/100 pcs jar, blister card, OEM carton
MOQ / Lead Time	Stock from 1,000 pcs; custom logo from 10,000 pcs; 7–15 days