

Standard Cat6 & Cat5e Plugs

Coloured Cat5e RJ45 Connector - UTP 8P8C Modular Plug with 0.4mm Thick Pure Copper Contacts, 50µ" Gold Plated, 9 Colours for Network Colour Coding, Custom Logo OEM, Free Samples



Key specifications

Model No.	PR-C5E-04C (Cat5e, 0.4 mm contact, coloured)
Colours	Blue, red, green, yellow, orange, black, grey, white, purple; Pantone matching on request
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

Product summary

- **9 Housing Colours** – Blue, red, green, yellow, orange, black, grey, white and purple, so you can colour-code by VLAN, PoE, camera, voice or critical circuit and identify any run at a glance.
- **0.4 mm Thick Contact Blades** – Heavy-gauge stamped contacts, roughly 30% thicker than the 0.30 mm blades many premium-branded plugs specify, for higher spring force, deeper insulation piercing and resistance to deformation during crimping.
- **Pure Copper Alloy (Phosphor Bronze) Contacts** – Genuine copper-alloy blades hard enough to pierce insulation cleanly; never iron or steel-plated stock that rusts and loses spring tension.
- **50µ" Gold Over Nickel** – Contact resistance ≤ 20 mΩ, 750+ mating cycles, 48-hour salt-spray verified. 3µ", 15µ" and 30µ" options for cost-sensitive volumes.
- **Colour Compounded, Not Sprayed** – Pigment is mixed through the polycarbonate, so it will not chip during crimping, rub off in a cable tray, or yellow under UV.
- **3-Prong IDC Design** – Three contact points per conductor instead of two, gripping 24–26 AWG solid and stranded copper for both permanent links and patch-cord production.
- **Verified Cat5e Performance** – 100 MHz, 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 mean less heat rise at the contact interface.
- **Mixed-Colour Cartons** – Order a complete palette in one shipment, each colour bagged and labelled separately for stockists.
- **Custom Logo & Pantone Matching** – Laser marking or mold-engraved logo, Pantone-matched housings, OEM bags, 50/100 pcs jars, blister cards and branded cartons. Low MOQ for new brands.
- **Free Samples, Factory Direct** – Free multi-colour sample kit worldwide, 50M+ pcs/month capacity, ISO 9001 / RoHS / REACH, Fluke report with every batch.

Product page:

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

Category: Standard Cat6 & Cat5e Plugs

Contact & technical support

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Product details

Coloured Cat5e RJ45 Connectors with 0.4 mm Pure Copper Contacts: Colour-Coded 8P8C UTP Plugs for Organised, Traceable Networks

The Prounta coloured Cat5e RJ45 connector combines two things buyers usually have to choose between: a genuine colour-coding system and heavy-gauge contact quality. Housings are available in nine colours so every circuit class is identifiable across a patch field at a glance, while inside each plug sits a 0.4 mm thick pure copper alloy contact blade — roughly 30% heavier than the 0.30 mm contacts specified by well-known premium brands. Colour is what makes a rack maintainable; contact thickness is what keeps the link alive for a decade. Every batch is Fluke DSX-8000 tested, custom logo and Pantone matching are available, and free multi-colour sample kits ship worldwide before you commit to an order.

Colour Coding: What Is Standardised and What Is Convention

This is where most product pages get it wrong, so here is the accurate position. The ANSI/TIA-568 standard defines the *wire pair colours inside* the cable — blue, orange, green and brown, each with a white-striped partner — and the pin assignments for T568A and T568B. It does *not* mandate what colour a cable jacket or a connector housing should be. Separately, ANSI/TIA-606, the administration standard, defines colour for termination fields and labelling, which is where the familiar red-for-critical and blue-for-horizontal associations originate. In practice the industry has settled on informal but widely recognised conventions, and adopting one consistently is what delivers the real benefit: faster fault-finding, fewer accidental disconnections during moves and adds, and a rack the next technician can read without a drawing. A practical scheme many installers use is blue for general workstation data, yellow for PoE devices such as access points and IP phones, red for critical or do-not-disconnect uplinks, green for guest or DMZ segments, white for management and out-of-band links, and black or grey for general-purpose runs. One rule matters above all: never rely on colour alone. Colour is the visual shortcut; labels remain the authoritative record, and colour-blind colleagues need the label. Build the scheme, document it, and apply it consistently across plugs, boots and patch cords — our [colour-matched strain relief boots and accessories](#) complete the look at both ends.

T568A vs T568B: The Wire Colour Order Inside the Plug

Housing colour identifies the circuit; the wire colour code determines whether the link works at all. Both schemes use the same four pairs and differ only in the position of the orange and green pairs. T568B, the more common choice in the United States, runs white/orange, orange, white/green, blue, white/blue, green, white/brown, brown. T568A swaps orange and green: white/green, green, white/orange, blue, white/blue, orange, white/brown, brown. Either performs identically provided both ends of the cable match; mixing them end to end produces a crossover cable. Keep pairs intact rather than improvising, because each pair is twisted at a different rate specifically to cancel crosstalk — splitting a pair across non-adjacent pins degrades performance even when continuity tests pass. Full background is documented at [ANSI/TIA-568](#). For installers who want to verify the sequence visually before crimping, our [pass-through RJ45 plugs](#) let the conductors feed through the nose so the colour order is confirmed at the face.

Why 0.4 mm Contact Thickness Matters

An RJ45 contact is a cantilever spring, and spring stiffness rises steeply with material thickness. A 0.4 mm blade therefore generates substantially more normal force against the jack contact than a thin-stamped one, which breaks through surface films and holds a stable, low-resistance interface through vibration and thermal cycling. Thicker blades also resist skewing when the crimp die drives them into the conductor — a defect invisible to the eye but obvious to a Fluke tester — and their greater cross-section reduces resistive heating when [Power over Ethernet](#) pushes up to 90 W through the same eight contacts. Contact thickness is the specification cheap factories quietly reduce, because it is invisible in a photograph. We publish it so you can measure it. Compare the clear-housing version of the same construction on our [Cat5e UTP RJ45 connector with 3-prong gold contacts](#).

Custom Logo, Pantone Matching and Private Label

Beyond the nine stock colours we produce Pantone-matched housings so connectors match your brand palette or a client's site standard. Logo options include laser marking and mold-engraved text, and packaging runs from plain poly bags to screw-top jars, blister cards and colour boxes carrying your barcode and SKU. Mixed-colour cartons let distributors stock a full palette in one order. 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](#).

Does the housing colour affect performance? No. Pigment is added to the polycarbonate compound only; contact geometry and pair spacing are identical to the clear version, and terminations pass the same Fluke certification.

Is there an official standard for connector or jacket colour? No. TIA-568 standardises the wire pair colours inside the cable and the pin assignments; TIA-606 governs colour for termination fields and administration. Housing and jacket colours are informal conventions — valuable, but choose a scheme, document it and apply it consistently.

What is the correct T568B wire order? White/orange, orange, white/green, blue, white/blue, green, white/brown, brown. T568A swaps the orange and green pairs. Match both ends of the cable.

Will the colour fade or chip? No. Because pigment is compounded through the material rather than surface-sprayed, it survives crimping, tray abrasion and UV exposure.

Can I order mixed colours in one shipment? Yes. Mixed-colour cartons ship with each colour bagged and labelled separately, so you can stock a full palette without nine separate purchase orders.

How do I verify the 0.4 mm contact thickness? Measure a blade with a micrometer or digital calipers on the free samples we send. We publish the figure precisely so it can be checked.

Technical specifications

Specification	Published value
Model No.	PR-C5E-04C (Cat5e, 0.4 mm contact, coloured)
Colours	Blue, red, green, yellow, orange, black, grey, white, purple; Pantone matching on request
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)
Wiring Schemes	T568A / T568B
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

Specification	Published value
Durability	≥ 750 mating cycles
Latch Flex Test	15× 180° flex without fracture
Colour Fastness	No visible fading after UV and 48-hour salt-spray exposure
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, mixed-colour cartons
MOQ / Lead Time	Stock from 1,000 pcs per colour; custom colour/logo from 10,000 pcs; 7–15 days