

Standard Cat6 & Cat5e Plugs

Red Cat6 Shielded RJ45 Connector - FTP/STP 8P8C Modular Plug, Pure Copper 50μ" Gold-Plated Contacts, Colour-Coded Metal Shell for TIA-606 Critical Circuits, Custom Logo OEM, Free Samples



Key specifications

Model No.	PR-C6S-RED (red shielded Cat6)
Colour	Red (blue, green, yellow, orange, black, grey, white, purple available; Pantone matching on request)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Colour Administration	Aligned to ANSI/TIA-606-C (red = critical / life-safety / key systems)

Product summary

- **Red Colour-Coded Housing** - Instantly identifies critical, life-safety and key-system circuits at the patch panel, matching the ANSI/TIA-606-C colour scheme and cutting trace time during moves, adds and changes.
- **Full Metal Shielded Shell** - Nickel-plated pure copper body delivers 360° EMI/RFI screening and continuous shield-to-jack grounding for noisy electrical environments.
- **100% Pure Copper Contacts + 50μ" Gold** - Phosphor bronze/pure copper blades plated 50μ" gold over nickel; ≤ 20 mΩ contact resistance and 750+ mating cycles. 3μ"/15μ"/30μ" options available.
- **Colour-Fast, Non-Fading Pigment** - Colour is compounded through the material, not surface-sprayed, so it will not chip, rub off or yellow under UV over the life of the installation.
- **3-Prong IDC, Solid & Stranded** - Three-prong piercing blades grip 23-26 AWG solid and stranded copper, serving both permanent links and patch-cord assembly.
- **Verified Cat6 Performance** - 250 MHz, 1000BASE-T and 10GBASE-T short-link capable, 100% Fluke DSX-8000 tested to ANSI/TIA-568.2-D and ISO/IEC 11801 Class E.
- **PoE++ Ready** - 1.5 A per contact, IEEE 802.3af/at/bt to 90 W for IP cameras, access points, access-control panels and emergency notification devices.
- **Full Colour Range Available** - Red, blue, green, yellow, orange, black, grey, white and purple to build a complete TIA-606 colour system; mixed-colour cartons supported.
- **Custom Logo & Private Label** - Laser marking or mold-engraved logo, Pantone-matched custom colours, OEM bags, 50/100 pcs jars, blister cards and branded cartons. Low MOQ.
- **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/red-cat6-shielded-rj45-connector-ftp-stp-pure-copper/>

Category: Standard Cat6 & Cat5e Plugs

Contact & technical support

Email	austin@cnplugs.com
Call / WhatsApp	+86 134 2850 9915
Business hours	Monday-Saturday, 08:30-18:00 (UTC+8)
Contact page	www.cnplugs.com/contact-us/

Product details

Red Cat6 Shielded RJ45 Connector: Pure Copper FTP/STP Modular Plug for Colour-Coded Critical Circuits

The Prounta red Cat6 shielded RJ45 connector is a fully metal-shelled 8P8C modular plug that combines genuine shielded performance with a colour-coded body designed for professional cable administration. In a 48-port patch field, colour is the fastest diagnostic tool a technician has: it communicates a circuit's function from across the rack, before anyone reads a label. Under the ANSI/TIA-606-C administration standard, red is reserved for critical circuits, life-safety systems and key telephone terminations — which is exactly why serious integrators specify red plugs rather than generic clear ones on the runs they cannot afford to disconnect by mistake. Every batch is Fluke DSX-8000 tested, custom logo marking is available, and free samples ship worldwide.

Why Red? Colour Coding as Real Infrastructure Discipline

Colour coding is not cosmetic. TIA-606-C defines a colour scheme so that cable function is visually identifiable before any identifier is read, and published data-centre practice attributes substantial mean-time-to-repair reductions to disciplined labelling and colour systems. In that scheme, red designates critical and life-safety infrastructure: fire alarm and emergency notification links, security and access control, key telephone systems, and critical uplinks that must never be pulled during routine maintenance. Applying a red connector to those runs creates a visual barrier against human error — the single most common cause of accidental outages during moves, adds and changes. Colour also speeds up commissioning, because installers can sort and terminate by circuit class without cross-checking a spreadsheet on every drop. We supply the full palette so you can implement a complete scheme: blue for horizontal drops, green for network connections, yellow for auxiliary and alarm circuits, orange for demarcation, purple for common equipment, and red for the critical ones. Browse the full [RJ45 connector catalogue](#) to specify a matched set.

Shielding, Pure Copper and Colour Durability

Colour means nothing if the connector underperforms. This plug's nickel-plated pure copper shell wraps the entire body, bonding to the cable's foil or braid at the rear and transferring that path to the shielded jack's spring fingers at the front, giving a genuine 360° screen against interference from variable-frequency drives, lift motors, fluorescent ballasts and parallel power runs. Contacts are stamped from pure copper and phosphor bronze — never recycled iron-plated stock — and plated with 50µ" gold over a nickel barrier for low resistance and corrosion resistance verified by 48-hour salt-spray testing. The red pigment is compounded into the polycarbonate and boot material rather than sprayed on the surface, so it will not chip during crimping, rub off in a cable tray, or fade under UV exposure. For unshielded colour-coded work, compare our [standard Cat6 UTP modular plug](#); for 10G and 40G shielded backbone links, see the [Cat6A and Cat8 shielded plug range](#).

Custom Logo, Custom Colour and Private Label

Beyond stock red, we produce Pantone-matched housings and boots so your connectors match your brand or your client's site standard. Logo options include laser marking and mold-engraved text on the shell, and packaging runs from plain poly bags to screw-top jars, blister cards and full colour boxes carrying your barcode and SKU. Drawings and 3D renderings are approved before tooling begins. See comparable private-label work on our [custom logo Cat6 RJ45 connector](#) and the [pure copper Cat6 connector with free samples](#).

Applications

Fire alarm and emergency notification networks; access control and security systems; hospital nurse-call and medical device links; data-centre critical uplinks and out-of-band management; broadcast and AV-over-IP; industrial and PLC networks near VFD noise; and any structured cabling project running a formal colour-administration scheme. For tool-free termination on the same shielded cable, see our [toolless field termination connectors](#).

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

What does red officially mean in structured cabling? Under ANSI/TIA-606-C, red designates critical circuits, life-safety systems and key telephone terminations. Many organisations also adopt it internally for

production or "do not disconnect" links. Background on the connector family and cable class is available at [modular connector](#) and [Category 6 cable](#).

Will the colour fade or chip? No. Because the pigment is compounded through the material rather than surface-coated, it survives crimping, cable-tray abrasion and UV exposure without chipping or yellowing.

Can I order mixed colours in one shipment? Yes. We supply mixed-colour cartons so you can stock a complete TIA-606 palette in a single order, with each colour bagged and labelled separately.

Is a matching red boot available? Yes. Colour-matched strain relief boots ship alongside the plugs so the whole termination reads red at the panel. See our [strain relief boots and telecom accessories](#).

Technical specifications

Specification	Published value
Model No.	PR-C6S-RED (red shielded Cat6)
Colour	Red (blue, green, yellow, orange, black, grey, white, purple available; Pantone matching on request)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Colour Administration	Aligned to ANSI/TIA-606-C (red = critical / life-safety / key systems)
Configuration	8 Position 8 Contact (8P8C)
Shielding	FTP / STP, 360° full metal shell
Shell Material	Pure copper, nickel-plated
Contact Material	Pure copper / phosphor bronze
Contact Plating	50µ" gold over nickel (3µ" / 15µ" / 30µ" optional)
Housing / Boot	100% virgin polycarbonate, UL 94V-0; colour compounded through material
IDC Prongs	3-prong, solid & stranded compatible
Conductor Size	23-26 AWG; insulated OD 0.90-1.10 mm (1.2 mm bore available)
Cable Jacket OD	Up to 6.5 mm
Bandwidth	250 MHz; 10GBASE-T capable on short links
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
Shield Continuity	≤ 50 mΩ shell-to-shell
Durability	≥ 750 mating cycles
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; custom colour/logo from 10,000 pcs; 7-15 days