

Standard Cat6 & Cat5e Plugs

Cat6 Shielded Pass-Through RJ45 Connector - FTP/STP 8P8C Feed-Through Modular Plug, Pure Copper Metal Shell, 50μ" Gold-Plated Contacts, 23AWG 1.2mm Hole, Custom Logo OEM, Free Samples

**Key specifications**

Model No.	PR-C6SP-12 (Cat6 shielded pass-through)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Configuration	8 Position 8 Contact (8P8C), pass-through / feed-through
Shielding	FTP / STP, 360° full metal shell

Product summary

- **Pass-Through + Full Shielding in One Plug** – Conductors feed straight through the nose for T568A/T568B verification before crimping, while a nickel-plated pure copper shell maintains 360° EMI screening — speed without giving up noise immunity.
- **Uninterrupted Shield Continuity** – Metal shell bonds to the cable foil or braid at the rear and transfers ground to the jack's spring fingers at the front; ≤ 50 mΩ shell-to-shell continuity verified in production.
- **1.2 mm Wire Holes for 23 AWG Shielded Cable** – Enlarged bore accepts 1.08–1.16 mm insulated conductors, including thick-jacket Cat6/Cat6A F/UTP and S/FTP that jams standard 1.0–1.1 mm plugs. 1.05 mm bore also available.
- **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.
- **Cuts Termination Time Roughly in Half** – Visual sequence checking eliminates the blind-insert step that causes most failed terminations; first-pass yield above 99% in production cable assembly.
- **3-Prong IDC, Solid & Stranded** – Enlarged three-prong piercing blades grip both solid and stranded copper, so one SKU covers permanent links and patch-cord manufacturing.
- **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 up to 90 W for IP cameras, PTZ domes, access points and industrial endpoints.
- **Custom Logo & Private Label** – Laser marking or mold-engraved logo on the shell, colour-matched boots, 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/cat6-shielded-pass-through-rj45-connector-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

Cat6 Shielded Pass-Through RJ45 Connector: Pure Copper FTP/STP Feed-Through Modular Plug with 360° EMI Screening

The Prounta Cat6 shielded pass-through RJ45 connector solves a problem most plugs force you to choose between: fast, verifiable termination or genuine electromagnetic shielding. Conductors feed completely through the plug nose so the installer confirms the T568A or T568B colour sequence before the crimp tool closes, while a nickel-plated pure copper shell wraps the body and holds an uninterrupted 360° screen from cable braid to jack. The result is the productivity of a feed-through plug on the shielded runs that previously demanded slow, closed-end terminations. Every batch is Fluke DSX-8000 tested, custom logo marking is available, and free samples ship worldwide before you commit to an order.

Why Pass-Through Termination Pays for Itself

Does the Open Nose Compromise the Shield? No — Here Is Why

This is the question every experienced installer asks, and it deserves a direct answer. Shielding effectiveness depends on the continuity of the conductive enclosure around the twisted pairs, not on whether conductor tips are visible at the face. In this connector, the pure copper shell surrounds the entire plug body and the pair bundle inside it; the rear of the shell clamps onto the cable's foil or braid, and the front makes positive contact with the shielded jack's spring fingers the moment the plug latches. The conductive path is therefore continuous through the mated connection. The pass-through blade trims the conductors flush with the plug face, so once seated in a shielded jack the termination is fully enclosed. Two conditions matter in practice: use a proper pass-through crimper that cuts flush rather than leaving whiskers, and bond and ground the shield at the rack end — an ungrounded screen behaves as an antenna rather than a barrier, which is the real cause of most disappointing shielded installations. Understanding of [electromagnetic interference](#) and its mitigation underpins this design.

Custom Logo, Private Label and OEM Packaging

Distributors and cabling brands can ship this connector under their own identity. We offer laser marking or mold-engraved logos on the metal shell, colour-matched strain relief boots for circuit identification, and complete retail packaging — poly bags, screw-top jars, blister cards, colour boxes and master cartons printed with your barcode and SKU. Engineering drawings and 3D renderings are approved with you before tooling is cut. See comparable private-label builds on our [custom logo Cat6 RJ45 connector](#) and the [pure copper Cat6 connector free-sample program](#).

Applications

Shielded structured cabling in data centres, hospitals, airports and stadiums; IP surveillance and PoE++ camera drops routed beside power conduit; factory-floor, PLC and inverter networks exposed to VFD noise; broadcast and AV-over-IP installations; direct-burial and outdoor links; and high-volume shielded patch-cord production where termination speed drives margin. For 10G and 40G backbone work, step up to the [Cat6A and Cat8 shielded plug range](#); for crimp-free field work, see our [toolless field termination connectors](#).

Which crimp tool do I need? A pass-through crimper with an integrated flush-cut blade. A conventional 8P8C die will seat the contacts but will not shear the protruding conductors, leaving whiskers that can short or snag. We supply matching tools with sample kits on request.

How do I know whether to order the 1.2 mm or 1.05 mm bore? Strip a short length and measure one insulated conductor with calipers. A reading of 1.08–1.16 mm calls for the 1.2 mm version; below roughly 1.06 mm, the smaller bore grips better. This single measurement prevents the most common field termination failure.

Can it be used on unshielded cable? Mechanically yes, but the metal shell only adds value with screened cable and shielded jacks. On UTP runs choose an unshielded plug so you avoid a floating, ungrounded shield — see the [standard Cat6 and Cat5e plug category](#).

Will terminations pass Fluke certification? Yes. Correctly crimped links pass Cat6 permanent-link and channel testing including NEXT and return loss; we sample every production lot on a Fluke DSX-8000 and supply the report. Background on the cable class is available at [Category 6 cable](#).

Is it backward compatible? Yes — fully compatible with Cat5e and Cat5 shielded cable and with all standard RJ45 jacks, shielded or unshielded.

Technical specifications

Specification	Published value
Model No.	PR-C6SP-12 (Cat6 shielded pass-through)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Configuration	8 Position 8 Contact (8P8C), pass-through / feed-through
Shielding	FTP / STP, 360° full metal shell
Shell Material	Pure copper, nickel-plated
Wire Hole Diameter	1.2 mm standard (1.05 mm option); fits insulated conductor OD 1.08–1.16 mm
Conductor Size	23–26 AWG, solid & stranded
Cable Jacket OD	Up to 6.8 mm
Bandwidth	250 MHz; 10GBASE-T capable on short links
Contact Material	Pure copper / phosphor bronze
Contact Plating	50μ" gold over nickel (3μ" / 15μ" / 30μ" optional)
Inner Housing	100% virgin polycarbonate, UL 94V-0 flame retardant
IDC Prongs	3-prong enlarged piercing blades
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
Salt Spray	48 hours, no visible corrosion
Required Tool	Pass-through crimper with integrated flush-cut blade
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