

Standard Cat6 & Cat5e Plugs

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

**Key specifications**

Model No.	PR-C6S-12 (Cat6 shielded, 1.2 mm bore)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Configuration	8 Position 8 Contact (8P8C), two-piece with load bar
Shielding	FTP / STP, 360° full metal shell

Product summary

- **1.2 mm Enlarged Wire Hole** – Accepts 23 AWG shielded conductors with 1.08–1.16 mm insulation OD, including thick-jacket Cat6/Cat6A F/UTP, S/FTP and direct-burial cable that jams standard 1.0–1.1 mm plugs.
- **Full Metal Shielded Shell** – Nickel-plated pure copper housing gives 360° EMI/RFI protection and continuous shield-to-jack grounding, cutting alien crosstalk from power lines, VFDs and motors.
- **100% Pure Copper Contacts + 50μ" Gold** – Phosphor bronze/pure copper blades with 50μ" gold over nickel; contact resistance $\leq 20\text{ m}\Omega$ and 750+ mating cycles. 3μ"/15μ"/30μ" options available.
- **3-Prong IDC, Solid & Stranded** – Enlarged three-prong piercing blades grip both solid and stranded copper securely, so one SKU serves permanent links and patch-cord production.
- **Two-Piece Design with Load Bar** – Wires are ordered on the load bar first, then inserted as a unit — faster, straighter, and far fewer mis-wires than blind single-piece loading.
- **Fluke-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 devices.
- **Custom Logo & Private Label** – Laser-marked or mold-engraved logo, custom boot colours, 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-rj45-connector-1-2mm-wire-hole-ftp-stp/>

Category: Standard Cat6 & Cat5e Plugs

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Product details

Cat6 Shielded RJ45 Connector with 1.2 mm Wire Hole: Pure Copper FTP/STP Modular Plug for 23 AWG Shielded Cable

The Prounta Cat6 shielded RJ45 connector is a fully metal-shelled 8P8C modular plug built around an enlarged 1.2 mm wire hole, the dimension that decides whether a 23 AWG shielded Ethernet cable terminates cleanly or fails on the bench. Standard plugs are bored at 1.0–1.1 mm and were designed for thin 24–26 AWG UTP; force a thick-insulation shielded conductor into them and the wire stops short of the contact blade, deforms the insulation, or splits the housing. This plug solves that with a wider channel, pure copper 50µ" gold-plated contacts, a nickel-plated copper shield can and a two-piece load-bar structure. Every batch is Fluke DSX-8000 tested, custom logo marking is available, and free samples ship worldwide before you place an order.

Why the 1.2 mm Wire Hole Matters

Cable category alone does not tell you which plug to buy — the insulated conductor outside diameter does. Shielded Cat6 and Cat6A cable in 23 AWG typically carries an insulation OD of 1.08 to 1.16 mm, and direct-burial or LSZH variants can run to the top of that band. A 1.2 mm bore gives the clearance those conductors need to seat fully against the IDC blade without shaving the insulation. The practical result is fewer opens, fewer marginal NEXT readings and far less scrap during patch-cord production. Before ordering, measure your conductor with calipers: choose 1.2 mm for 1.08–1.16 mm insulation, and step down to a 1.0–1.1 mm plug for thinner 24–26 AWG cable such as our [standard Cat6 UTP modular plug](#). Getting this one number right eliminates the most common cause of field termination failure.

Full Metal Shielding and Reliable Ground Continuity

Shielded cabling only performs if the shield stays continuous end to end. This connector's nickel-plated pure copper shell wraps the entire plug body and makes positive contact with the cable's foil or braid at the rear, then transfers that path to the shielded jack's spring fingers at the front. The result is a genuine 360° screen against electromagnetic interference from fluorescent ballasts, variable-frequency drives, elevator motors and parallel power runs — the environments where UTP links start logging CRC errors. For heavy industrial noise or 10G/40G backbone work, step up to our [Cat6A and Cat8 shielded plug range](#), or consider the [Cat6A STP/FTP metal shell plug](#). Remember that shielding must be bonded and grounded at the rack end to work as designed; an ungrounded screen can act as an antenna instead of a barrier.

Custom Logo, Private Label and OEM Packaging

Distributors and cabling brands can ship this plug under their own name. We provide laser marking or mold-engraved logos on the shell, custom-coloured strain relief boots for cable 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. See comparable private-label builds such as our [custom logo Cat6 RJ45 connector](#) and the [pure copper Cat6 connector free-sample program](#).

Applications

Shielded structured cabling in data centres, hospitals and airports; IP surveillance and PoE++ camera drops running beside power conduit; factory-floor and PLC networks exposed to VFD noise; broadcast and AV-over-IP installations; direct-burial and outdoor links; and shielded patch-cord manufacturing. For tool-free field termination on the same shielded cable, see our [toolless field termination connectors](#).

How do I know if I need the 1.2 mm version? Strip a short length of cable and measure one insulated conductor with calipers. If it reads 1.08–1.16 mm, this plug is correct. Below roughly 1.06 mm, a 1.0–1.1 mm plug will grip better.

Does the larger hole hurt Cat6 performance? No. The bore is sized to the conductor, and contact geometry and pair spacing are unchanged, so terminations still meet Cat6 NEXT and return-loss limits under Fluke permanent-link testing.

Which crimp tool should I use? Any standard 8P8C ratchet crimper. This is a closed-end plug, not a pass-through type, so no flush-cut blade is needed — if you prefer feed-through termination, use our [pass-through RJ45 plugs](#) instead.

Can it be used on unshielded cable? Mechanically yes, but the metal shell only delivers value with screened cable and shielded jacks. On UTP runs choose an unshielded plug to avoid an ungrounded floating shield. Background on the connector family and the cable standard is available via [modular connector](#) and [Category 6 cable](#).

Technical specifications

Specification	Published value
Model No.	PR-C6S-12 (Cat6 shielded, 1.2 mm bore)
Category / Standard	Cat6, ANSI/TIA-568.2-D, ISO/IEC 11801 Class E, IEC 60603-7-51
Configuration	8 Position 8 Contact (8P8C), two-piece with load bar
Shielding	FTP / STP, 360° full metal shell
Wire Hole Diameter	1.2 mm (fits insulated conductor OD 1.08–1.16 mm)
Conductor Size	23 AWG (24 AWG thick-insulation compatible), solid & stranded
Cable Jacket OD	Up to 6.8 mm
Bandwidth	250 MHz; 10GBASE-T capable on short links
Shell Material	Pure copper, nickel-plated
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
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