

Standard Cat6 & Cat5e Plugs

Cat5e Shielded RJ45 Connector - FTP/STP 8P8C Modular Plug with Nickel-Plated Metal Shell, 50µ" Gold-Plated Pure Copper Contacts, 3-Prong IDC, Custom Logo OEM, Free Samples, Factory Direct



Key specifications

Model No.	PR-C5ES-01 (Cat5e shielded, FTP/STP)
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	Fully shielded — nickel-plated copper-alloy metal shell, 360° coverage

Product summary

- **Full Metal Shielded Shell** – Nickel-plated copper-alloy shell fully encloses the plug body, forming a Faraday cage that shunts EMI/RFI to ground instead of into the data pairs. Essential for FTP, U/FTP, S/FTP and STP Cat5e cable.
- **Continuous Shield Path** – Rear crimp wings clamp the cable foil and drain wire directly against the shell, maintaining unbroken shield continuity from cable to jack to rack ground — the step that unshielded plugs destroy.
- **Pure Copper Alloy (Phosphor Bronze) Contacts** – Genuine copper-alloy blades with the hardness to pierce conductor insulation cleanly and hold spring tension; never iron or steel-plated stock that rusts and goes slack.
- **50µ" Gold Over Nickel** – Contact resistance $\leq 20\text{ m}\Omega$, 750+ mating cycles, 48-hour salt spray verified. 3µ", 15µ" and 30µ" plating options for cost-sensitive volumes.
- **3-Prong IDC Contacts** – Three piercing points per conductor instead of the two used by many bulk-packed shielded plugs, gripping 24–26 AWG solid and stranded copper for both permanent links and patch-cord production.
- **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 up to 90 W for cameras, access points, VoIP handsets and access-control panels.
- **Built for Noisy Environments** – Factory floors, lift shafts, hospitals, broadcast racks and any run parallel to power conduit, where UTP alone drops packets.
- **Custom Logo & Private Label** – Laser-marked or mold-engraved logos, OEM poly bags, 50/100 pcs jars, blister cards and branded master cartons. Low MOQ for new brands.
- **Factory Direct, Free Samples** – Bought from the manufacturer, not a trading company: 50M+ pcs/month capacity, own tooling shop, ISO 9001 / RoHS / REACH, Fluke test report with every batch, free sample kit worldwide.

Product page:<https://www.cnplugs.com/product/cat5e-shielded-rj45-connector-ftp-stp/>**Category:** Standard Cat6 & Cat5e Plugs

Contact & technical support

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Product details

Cat5e Shielded RJ45 Connector: FTP/STP 8P8C Modular Plug with a Continuous Metal Shield Path, Direct From the Factory

The Prounta Cat5e shielded RJ45 connector is an 8P8C modular plug built inside a nickel-plated metal shell, designed to terminate FTP, U/FTP, S/FTP and STP Cat5e cable without breaking the one thing that makes shielded cable worth buying: shield continuity. Shielded cable costs more per metre, takes longer to pull and demands a grounded rack — and every bit of that investment is cancelled the moment someone crimps a plastic UTP plug onto the end of it. This connector is the part that keeps the shield electrically continuous from cable foil, through the plug shell, into the jack and out to building ground. It pairs that shell with pure copper alloy contacts, 50µ" gold plating and three-prong IDC blades, and it ships direct from our own factory floor with no trading-company margin in between.

Shielded or Unshielded? The Rule That Decides It

The most common question we receive is whether a shielded plug is really necessary. The answer follows one asymmetric rule that installers learn the hard way. Putting a shielded plug on unshielded cable is harmless but achieves nothing, because there is no foil or drain wire for the shell to bond to. Putting an unshielded plug on shielded cable is a genuine fault: the foil terminates at nothing, the drain wire is clipped off, and the shield becomes an unterminated conductor that can behave as an antenna and pick up more noise than it rejects. That is why a badly terminated shielded run frequently performs *worse* than plain UTP would have. If the cable on the drum says FTP, STP, F/UTP, U/FTP or S/FTP, the plug must be shielded — no exceptions. Specify shielded Cat5e wherever cable runs parallel to power conduit, through plant rooms, near motors, VFDs, lift machinery, LED drivers or radio equipment, or across hospital and broadcast environments. For general office drops in clean environments, our [unshielded Cat5e UTP RJ45 connector](#) remains the economical choice. Background reading on cable construction is available at [Twisted pair](#).

How the Shield Path Is Maintained Inside This Plug

A shielded plug is only as good as its bonding path, and this is where cheap shielded plugs quietly fail. Our shell is drawn from copper alloy and nickel-plated for corrosion resistance and low-impedance contact, and it wraps the full length of the plug body rather than covering only the nose. At the rear, two crimp wings close onto the cable jacket and clamp the foil and drain wire directly against the inside of the shell, so the bond is mechanical and gas-tight rather than dependent on incidental contact. When the plug is inserted, the shell mates with the spring fingers of a shielded jack or patch panel, which carries the shield to the panel frame and on to the rack earth bar. The result is one continuous conductive path with no interruption at the connector. Grounding practice matters just as much as hardware: for Ethernet patching, the shield should be bonded at both ends through the connector shells and referenced to the same building ground via equipment chassis, which avoids the ground loops caused by improvised pigtails and inconsistent bonding. See [Shielded cable](#) for the underlying principle. Where an existing shielded run has to be terminated in the field without a crimper, our [toolless zinc-alloy shielded field-termination plug](#) is the faster option.

Contacts, Metallurgy and the Two-Prong Problem

Inside the shell, the electrical work is done by eight stamped blades. Ours are pure copper alloy — phosphor bronze — nickel-plated and finished with 50µ" hard gold. We state the alloy precisely rather than advertising "99.99% pure copper" pins the way several bulk-packed shielded plugs do, because genuinely pure copper is too soft to hold spring temper or pierce conductor insulation; phosphor bronze is the correct IDC material and always has been. The claim that actually matters is that the base metal is a real copper alloy through the full section, not iron or steel with a copper flash that rusts and loses tension. Equally important is prong count: many shielded Cat5e plugs sold in hundred-piece bags use a two-prong contact, which pierces the conductor at two points. Ours uses three, giving three independent contact points per wire and materially better resistance to vibration and thermal cycling — the same construction used across our [standard Cat6 and Cat5e plug range](#).

Factory Direct: What It Changes for Your Purchase Order

Custom Logo, Private Label and OEM Packaging

Distributors and cabling brands ship this connector under their own name. Options include laser marking and mold-engraved logos, custom shell finishes, and complete retail packaging — poly bags, screw-top jars, blister

cards, colour boxes and master cartons carrying your barcode and SKU. Artwork and 3D renderings are approved before any tooling is cut. See comparable private-label work on our [custom logo Cat5e RJ45 connector](#) and the [pure copper connector free-sample programme](#).

Can I use an unshielded RJ45 connector on shielded Cat5e cable? No. The foil and drain wire would terminate at nothing, breaking shield continuity and leaving an unterminated conductor that can pick up noise rather than reject it. Shielded cable requires shielded plugs, shielded jacks and a shielded patch panel end to end.

Can I use a shielded connector on unshielded UTP cable? Physically yes, and it causes no harm, but there is no benefit — with no foil or drain wire to bond to, the shell is electrically floating. Use the unshielded version and save the cost.

Should the shield be grounded at one end or both? For Ethernet patch and horizontal links, bond at both ends through the connector shells into shielded jacks and panels, all referenced to the same building ground through equipment chassis. Problems attributed to "ground loops" usually come from improvised pigtails or inconsistent bonding across a site, not from bonding both ends of a compliant link. Follow the project grounding design where one exists.

Does the metal shell affect PoE? No. Shielding does not impede Power over Ethernet; the plug is rated 1.5 A per contact and supports 802.3af/at/bt to 90 W. In dense bundles, manage heat through bundle size and cable gauge as usual.

How do I tell a shielded plug from an unshielded one? Look at the body: a shielded plug has a metal shell, usually silver-toned, often with rear crimp wings for the drain wire. An unshielded plug is entirely clear plastic.

Will these fit thicker shielded jacket? They accept jackets up to 6.5 mm, which covers standard shielded Cat5e. For heavier Cat6 and Cat6A shielded cable, use the larger bore of our [pass-through shielded range](#), which also lets you verify wire order before crimping.

Technical specifications

Specification	Published value
Model No.	PR-C5ES-01 (Cat5e shielded, FTP/STP)
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	Fully shielded — nickel-plated copper-alloy metal shell, 360° coverage
Shield Termination	Rear crimp wings onto cable foil + drain wire; shell-to-jack spring contact
Compatible Cable	Cat5e FTP, F/UTP, U/FTP, S/FTP, STP (solid and stranded)
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 6.5 mm (shielded jackets run thicker than UTP)
Current Rating	1.5 A per contact (PoE / PoE+ / PoE++ 802.3bt, 90 W)
Voltage Rating	150 V AC (rms)

Specification	Published value
Contact Resistance	$\leq 20 \text{ m}\Omega$
Shell-to-Shell Resistance	$\leq 50 \text{ m}\Omega$ (shield continuity verified)
Insulation Resistance	$\geq 500 \text{ M}\Omega @ 500 \text{ V DC}$
Dielectric Strength	1000 V AC / 1 minute, no breakdown
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