

Standard Cat6 & Cat5e Plugs

Cat6A STP / FTP Shielded RJ45 Modular Connector Plug (8P8C Metal Shell)



Key specifications

Product Type	Cat6A STP / FTP Shielded RJ45 Modular Plug (8P8C)
Compatible Cable Types	Shielded Twisted Pair (STP / FTP) Solid & Stranded Cables
Conductor Wire Gauge	23 AWG to 24 AWG Copper Conductors
Housing & Shielding Material	Brass-Copper Alloy Casing with Nickel Plating

Product summary

- **360° Full Metal Shielding:** Constructed with a high-grade brass copper casing to provide superior EMI/RFI protection in electrically noisy enterprise environments.
- **Cat6A High-Speed Performance:** Optimized for 10 Gigabit Ethernet data transmissions, ensuring minimal signal degradation and lightning-fast throughput.
- **Precision 8P8C Architecture:** Designed with standard 8-position, 8-contact configurations featuring durable 50u" gold-plated blades for stable conductivity.
- **Bulk & OEM Ready:** Supplied in professional packaging with full support for custom branding, tailored labeling, and large-scale global wholesale distribution.

Product page:
<https://www.cnplugs.com/product/cat6a-stp-ftp-shielded-rj45-modular-connector-plug/>
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

Advanced Shielded Connectivity for High-Performance Enterprise Networks

In modern data centers, server rooms, and commercial infrastructure, maintaining uncompromised signal integrity is paramount. High-speed data transmissions are frequently vulnerable to electromagnetic interference (EMI) and radio frequency interference (RFI) generated by surrounding power cables and heavy machinery. The **Cat6A STP / FTP Shielded RJ45 Modular Connector Plug** is engineered specifically to combat these challenges, offering rugged metallic housing and flawless 8P8C connectivity for professional IT integrators and global distributors.

The Critical Role of Shielding in Modern Cabling

When deploying 10G Ethernet networks across expansive commercial buildings, unshielded twisted pair (UTP) cables can suffer from severe crosstalk and signal attenuation. Utilizing a fully shielded (STP/FTP) plug ensures that the entire channel remains protected under a continuous conductive barrier. The brass-copper shell acts as a secure Faraday cage, diverting stray electrical noise safely away from your data streams. To learn more about the physics behind signal protection, explore Wikipedia's comprehensive overview of [Electromagnetic Interference](#).

Furthermore, proper infrastructure grounding is critical to maximizing the lifespan and safety of active network hardware. To review the foundational engineering standards that govern structural cable protection, read more about [Earthing System](#) principles on Wikipedia.

Precision Craftsmanship and Long-Term Durability

Quality engineering begins with the selection of premium raw materials. Our Cat6A shielded plugs feature heavy-duty metal shells combined with high-impact, flame-retardant internal housings. Each contact blade is coated with a thick 50 micro-inch layer of hard gold plating, drastically reducing contact resistance and preventing oxidation over thousands of mating cycles. Whether you are terminating solid backbone cables or flexible patch cords, these connectors guarantee consistent, enterprise-grade reliability.

Review the detailed mechanical and electrical specifications below to verify compatibility with your structured cabling requirements:

Expanding Your Network Infrastructure Portfolio

To build a resilient and comprehensive cabling supply chain, pairing the right connector with the exact environmental demand is essential. For fast, toolless field installations in high-EMI settings, explore our heavy-duty [Field Termination Toolless Zinc Alloy Shielded Plug](#). If your project requires standard unshielded office drops, check out our highly efficient [EZ Pass-Through Cat6 RJ45 Unshielded Modular Plug](#). Furthermore, for specialized industrial control systems, our multi-pin [10P10C RJ50 Industrial Communication Plugs](#) deliver unmatched versatility.

Q: What is the primary difference between STP/FTP shielded plugs and standard UTP modular plugs?

A: STP/FTP shielded plugs feature an external metal shell (typically brass or zinc alloy) that connects to the drain wire of a shielded cable, creating a continuous protective barrier against external EMI and crosstalk. Standard UTP plugs lack this metal housing and are intended for unshielded environments.

Q: Are these Cat6A shielded plugs compatible with standard Cat6 or Cat5e cables?

A: While these plugs are dimensionally optimized for thicker Cat6A shielded cables and their internal drain wires, they can physically accommodate smaller gauge wires, though matching the plug category to your specific cable specification is always recommended for peak 10G performance.

Q: Do you support custom OEM/ODM packaging and private labeling for large distributors?

A: Yes, as a direct manufacturing factory, we offer comprehensive OEM and custom branding solutions. This includes customized bag printing, barcode labeling, logo laser etching on the metal shell, and bulk export packaging tailored to your regional distribution standards.

Q: What kind of crimping tool should be used for these metal-shelled RJ45 connectors?

A: We recommend using a professional-grade 8P8C ratcheting modular crimp tool that provides even pressure distribution across both the internal wire contacts and the external metal strain-relief tab.

Request Your B2B Wholesale Quote Today

Ready to source factory-direct Cat6A shielded connectors for your next commercial network deployment or distribution inventory? Fill out the quick inquiry form below with your order volume, destination, and custom packaging preferences, and our technical sales engineering team will respond within 24 hours.

Technical specifications

Specification	Published value
Product Type	Cat6A STP / FTP Shielded RJ45 Modular Plug (8P8C)
Compatible Cable Types	Shielded Twisted Pair (STP / FTP) Solid & Stranded Cables
Conductor Wire Gauge	23 AWG to 24 AWG Copper Conductors
Housing & Shielding Material	Brass-Copper Alloy Casing with Nickel Plating
Contact Blade Design	Phosphor Bronze with 50u" Gold Plating over Nickel
Dielectric Withstanding Voltage	1000V AC (RMS) for 1 Minute
Insertion Life Cycle	Minimum 750 Mating Operations
Operating Temperature	-40°C to +85°C
Standard Packaging	100 pcs/bag (Bulk Master Carton & Custom OEM Options Available)