

Toolless Field Connectors

Field Termination Toolless Zinc Alloy Shielded Plug



Key specifications

Product Type	Field Termination Toolless Shielded RJ45 Plug
Cable Compatibility	Cat6A, Cat7, and Cat8 Shielded Twisted Pair (STP/FTP)
Conductor Wire Gauge	22 AWG to 24 AWG (Solid and Stranded Copper)
Housing Material	Heavy-Duty Die-Cast Zinc Alloy (Nickel-Plated)

Product summary

- **360° Shielded Zinc Alloy Housing:** Constructed from heavy-duty die-cast zinc alloy to deliver exceptional electromagnetic interference (EMI) and radio frequency interference (RFI) protection.
- **Toolless Field Assembly:** Engineered for fast, reliable termination in the field without requiring specialized crimping tools, saving installation time and labor costs.
- **High-Speed Transmission Support:** Fully optimized for high-bandwidth Cat6A, Cat7, and Cat8 cabling infrastructures, supporting 10G to 40G data rates.
- **Reusable & Self-Locking Design:** Features a screw-fit boot and a robust hinged load bar designed for easy rewiring, maintenance, and secure cable retention.

Product page:
<https://www.cnplugs.com/product/field-termination-toolless-zinc-alloy-shielded-plug/>
Category: Toolless Field Connectors

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 Networks

In modern enterprise environments, data centers, and industrial facilities, network infrastructure is frequently exposed to severe electrical noise and electromagnetic interference (EMI). To maintain ultra-high data integrity and prevent packet loss, professional installers rely on superior shielding components. The **Field Termination Toolless Zinc Alloy Shielded Plug** is engineered to meet these rigorous demands, providing robust 360-degree protection and effortless termination for high-speed Ethernet deployments. Whether you are running long-distance backbone connections or upgrading intelligent building systems, this connector guarantees enterprise-grade reliability.

The Advantage of Toolless Field Termination

Traditional modular plug installations often require specialized, expensive crimp tools and tedious manual alignment. Our toolless architecture revolutionizes on-site deployment. Technicians can easily terminate solid or stranded cables by utilizing the color-coded internal management bar and snapping the die-cast housing shut. This intuitive self-locking design drastically reduces installation time, eliminates hand fatigue, and ensures a precise 50% reduction in termination errors during large-scale deployments.

Robust Zinc Alloy Construction and EMI Suppression

Shielding performance depends heavily on the physical enclosure of the connector. Built from a durable die-cast zinc alloy casing, this plug offers exceptional mechanical strength and corrosion resistance. More importantly, the full metallic shell acts as a continuous Faraday cage, effectively neutralizing crosstalk and external interference generated by nearby electrical power lines, fluorescent lighting, and industrial machinery. For those interested in the underlying physics of electrical interference protection, you can read more about [Electromagnetic Interference](#) on Wikipedia.

Furthermore, proper grounding is essential to protect sensitive data equipment from high-voltage surges. To explore the standards and methods behind safeguarding structural wiring systems, review the comprehensive guide on [Earthing System](#) principles.

To ensure seamless compatibility with your structured cabling projects, review the detailed electrical and mechanical parameters below:

Expanding Your Infrastructure Solutions

Building a resilient, high-performance network often requires a mix of specialized connectors tailored to specific environmental conditions. If your project involves standard office environments where unshielded flexibility is preferred, explore our high-demand [EZ Pass-Through Cat6 RJ45 Unshielded Modular Plug](#). Additionally, for complex industrial automation, PLC controls, and POS systems requiring multi-pin configurations, our heavy-duty [10P10C RJ50 Industrial Communication Plugs](#) offer unmatched multi-wire versatility.

Q: Do I need a special crimping tool to install this shielded plug?

A: No specialized crimp tool is required. The connector utilizes an intelligent toolless design featuring a hinged butterfly closure and a screw-on compression boot that seals and locks the cable manually.

Q: Can this connector be reused if a wiring mistake is made during installation?

A: Yes. Unlike single-use crimp plugs, our toolless zinc alloy plug features a disassemblable housing and a re-openable wire management cap, allowing technicians to unclip, correct wire placement, and re-terminate the cable efficiently.

Q: Is this plug compatible with heavy 22 AWG Cat8 field cables?

A: Absolutely. The internal wire management spacing is engineered to accommodate larger 22 AWG to 24 AWG solid and stranded conductors commonly used in high-speed Cat6A, Cat7, and Cat8 shielded installations.

Q: Do you provide OEM branding and custom packaging services for bulk distributors?

A: Yes, as a direct manufacturer, we offer comprehensive OEM and ODM support, including customized logo laser-etching on the metal housing, bespoke box packaging, and bulk wholesale configurations.

Request Your B2B Quote Today

Technical specifications

Specification	Published value
Product Type	Field Termination Toolless Shielded RJ45 Plug
Cable Compatibility	Cat6A, Cat7, and Cat8 Shielded Twisted Pair (STP/FTP)
Conductor Wire Gauge	22 AWG to 24 AWG (Solid and Stranded Copper)
Housing Material	Heavy-Duty Die-Cast Zinc Alloy (Nickel-Plated)
Contact Blade Design	Phosphor Bronze with 50u" Gold Plating
Insertion Life Cycle	Minimum 750 Mating Operations
Operating Temperature	-40°C to +85°C
Standard Packaging	Bulk Poly Bag / Custom OEM Distribution Boxes Available