

Cat6A & Cat8 Plugs

Cat8 Shielded Toolless RJ45 Connector Manufacturer - 40G

**Key specifications**

Product type	Cat8.1 shielded toolless field termination plug
Connector format	RJ45-style 8P8C male modular plug
Mounting	Cable mounted; not a panel-mount coupler
Rated performance	Up to 40Gbps / 2000MHz in a compliant channel

Product summary

- **Cat8.1 high-speed design:** Shielded 8P8C male field termination plug engineered for up to 40Gbps and 2000MHz in a compliant Cat8 channel.
- **Tool-free field termination:** Hinged housing and color-coded wire manager eliminate the need for a conventional RJ45 crimping tool.
- **Full zinc alloy shielding:** Nickel-plated metal enclosure supports 360° shield continuity and helps control EMI, RFI and alien crosstalk.
- **Shielded cable compatibility:** Typical model fits 22–24 AWG solid or stranded Cat8 cable with a 7.0–8.5mm outer diameter.
- **T568A/T568B wiring:** Clearly marked conductor manager simplifies pin assignment and helps reduce field termination errors.
- **Secure strain relief:** Screw-on metal boot grips the cable jacket and supports the shield at the connector entry.
- **PoE-ready option:** Suitable for IEEE 802.3bt PoE++ applications when the connector, cable and complete installed channel are compliant.
- **Factory-direct OEM/ODM:** PROUNTA supports specification matching, custom logo, private-label packaging, samples and bulk supply.

Product page:

<https://www.cnplugs.com/product/cat8-toolless-rj45-connector/>

Category: Cat6A & Cat8 Plugs

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Product details

Cat8 Toolless RJ45 Connector Manufacturer for Shielded 40G Field Termination

The PROUNTA Cat8 toolless RJ45 connector is a cable-mounted 8P8C male field termination plug. Its hinged zinc alloy housing, wire manager and screw-on boot terminate shielded Cat8 cable without a conventional crimper. The reusable design suits data centers, enterprise networks, industrial systems and OEM cable assemblies.

This is a male plug, not a female coupler or panel-mount keystone jack. It connects directly to a compatible RJ45 port. See Wikipedia's [modular connector](#) overview for plug and jack terminology.

Cat8.1 Performance for Short-Reach 25G and 40G Links

Cat8 cabling is designed for data-center channels operating at frequencies up to 2000MHz. When every component is Cat8-rated and the installed channel satisfies the applicable standard, the connector can support 25GBASE-T and 40GBASE-T over short channel distances up to 30 meters. Actual performance depends on cable construction, termination workmanship, connected hardware, grounding and channel testing. The plug alone cannot convert a lower-category link into Cat8.

Cat8.1 is intended for shielded balanced cabling in controlled installations. The 2000MHz rating does not mean every device will operate at 40Gbps; Ethernet equipment must support the PHY rate. For 10Gbps devices, the connector remains usable when component compatibility, grounding and cable dimensions are correct, but the link negotiates only the speed supported by both endpoints.

Tool-Free, Re-Terminating Field Design

Prepare the jacket and shield, place trimmed conductors into the T568A/T568B wire manager and insert it into the plug. Closing the body engages the IDC system; tightening the boot secures the cable. No crimping die is needed, but use a stripper, cutter and tester. The housing can be reopened if undamaged.

Zinc Alloy Shielding and Cable Retention

The nickel-plated zinc alloy enclosure provides a conductive path between the cable shield and grounded port. Correct 360° bonding helps control EMI, RFI and crosstalk. Effectiveness depends on the complete link, so preserve the foil or braid and use grounded compatible equipment.

Cable Compatibility and Selection

Use round shielded cable matching the model's AWG, insulation diameter, jacket OD and shield construction. The typical range is 22–24 AWG and 7.0–8.5mm. Compatible Cat7 or Cat6A cable may be terminated, but the link follows its lowest-rated component. Compare [shielded RJ45 plugs](#) and [tool-free connectors](#).

Cat8.1 uses a shielded 8P8C interface; Class I performance requires matched, tested components. See Wikipedia's [ISO/IEC 11801 Category 8 overview](#).

How to Terminate the Cat8 Toolless RJ45 Plug

1. Confirm AWG, insulation diameter, jacket OD and shield type.
2. Slide the rear boot onto the cable.
3. Strip the jacket while preserving braid, foil and drain conductor.
4. Position the shield according to the assembly drawing.
5. Minimize pair untwisting and select T568A or T568B.
6. Load and trim conductors in the wire manager.
7. Insert the manager, close the housing and tighten the boot.
8. Inspect shield contact and test the completed channel.

Applications and OEM Manufacturing

Applications include 25G/40G data-center links, servers, switches, storage, industrial Ethernet, professional AV and PoE devices. The metal body suits thick cables and electrically noisy locations.

PROUNTA supports distributors, integrators and cable assemblers with specification matching, samples, bulk production and OEM/ODM marking or packaging. Browse the [RJ45 connector catalog](#) or compare the [Cat7 toolless plug](#) for 10Gbps projects.

Source Cat8 Toolless RJ45 Connectors from PROUNTA

PROUNTA helps professional buyers verify cable fit, shield continuity and channel performance before bulk or private-label production.

Technical specifications

Specification	Published value
Product type	Cat8.1 shielded toolless field termination plug
Connector format	RJ45-style 8P8C male modular plug
Mounting	Cable mounted; not a panel-mount coupler
Rated performance	Up to 40Gbps / 2000MHz in a compliant channel
Maximum Cat8 channel length	Up to 30 meters, subject to system design and testing
Termination method	Tool-free hinged IDC field termination
Wiring schemes	T568A and T568B
Typical conductor range	22–24 AWG solid or stranded copper
Typical cable outer diameter	7.0–8.5mm
Recommended cable	Shielded Cat8 S/FTP or compatible shielded construction
Housing	Nickel-plated die-cast zinc alloy
Contact material	Gold-plated phosphor bronze
Gold-plating option	Up to 50µin; confirm order specification
Cable retention	Screw-on shielded strain-relief boot
Typical mating durability	At least 750 cycles, model dependent
PoE application	PoE/PoE+/PoE++ option, subject to verification
Target standards	ANSI/TIA-568.2-D Cat8, ISO/IEC 11801 Class I, IEC 60603-7 series
Customization	Logo, packaging, plating and project-specific options