

RJ45 Connector Accessories

RJ45 Male to 8-Pin Screw Terminal Adapter Manufacturer

**Key specifications**

Product type	Passive RJ45/8P8C screw-terminal breakout adapter
Modular interface	RJ45-style 8P8C male plug
Terminal interface	Removable 8-position screw terminal block
Signal paths	Eight independent conductors

Product summary

- **Direct 8-pin breakout:** Brings each contact of an RJ45-style 8P8C male plug to an individually accessible screw terminal.
- **Solderless field wiring:** Insert stripped low-voltage wires into the green terminal block and tighten them with the included flat-head screwdriver.
- **Reusable pluggable terminal:** Removable 8-position block simplifies installation, testing, rewiring and maintenance.
- **Compact direct-plug design:** Male modular plug connects directly to compatible RJ45 equipment ports without an intermediate patch cable.
- **Clearly separated circuits:** Eight independent terminal positions support custom pin assignments, signal breakout and diagnostic access.
- **Versatile low-voltage applications:** Suitable for CCTV control wiring, DVR accessories, RS-232/RS-485, sensors, automation, prototypes and test fixtures.
- **Passive adapter:** Provides point-to-point pin access with no transformer, balun, protocol conversion, amplification or network electronics.
- **OEM/ODM supply:** PROUNTA supports bulk packaging, custom pin maps, housing labels, terminal colors and private-label programs.

Product page:

<https://www.cnplugs.com/product/rj45-male-8-pin-screw-terminal-adapter/>

Category: RJ45 Connector Accessories

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

RJ45 Male to 8-Pin Screw Terminal Adapter for Solderless Signal Breakout

The PROUNTA RJ45 male to 8-pin screw terminal adapter provides reusable access to all eight contacts of an 8P8C plug. Each pin routes to a separate position on the removable green block, allowing low-voltage wires to be connected without soldering or crimping. A small slotted screwdriver is included.

This passive breakout is not a BNC connector, video balun, media converter, surge protector or active extender. It contains no transformer or signal processing. Users must define pinout, signal, voltage and current for their equipment. See Wikipedia's [modular connector](#) overview.

Direct RJ45 8P8C Male-to-Terminal Access

The transparent male plug inserts into a compatible RJ45-style port. Its eight contacts route through the black housing to eight screw positions. The one-to-one breakout supports inspection, adaptation or reassignment when equipment uses RJ45 for serial communication, sensors, alarms, relays or proprietary control.

Remove the terminal block before wiring and reinsert it after conductors are secured. Verify every position with a continuity tester because equipment vendors may use custom pinouts.

Solderless and Reusable Field Wiring

Prepare each wire, insert it fully and tighten the screw with a flat-head driver. The clamp supports future rewiring without replacing the RJ45 plug, useful for prototypes, test benches and control-panel maintenance.

Insufficient torque can cause intermittent contact; excessive torque can damage fine conductors or the block. Use ferrules when required. Learn more in Wikipedia's [screw terminal](#) article.

Applications and Electrical Limitations

Applications include CCTV control lines, DVR accessories, RS-232/RS-485, data acquisition, relays, sensors, alarms, industrial panels and test fixtures. It is useful when equipment uses an RJ45 socket as a multi-pin interface but field cable terminates as individual wires.

The adapter should be treated as eight individual conductors, not as four automatically managed Ethernet pairs. If a CCTV controller, serial device or sensor assigns a signal to a specific RJ45 contact, connect the matching screw position exactly as documented. Reversing polarity or joining grounds incorrectly can damage connected equipment. For repeat production, create a pin-assignment drawing, mark both ends, perform 100 percent continuity testing and lock the approved wiring into the work instruction.

Screw terminals can disturb controlled impedance and pair geometry. Do not promise 10/100/1000BASE-T unless the exact assembly is validated. Do not apply PoE or power without confirming pinout, polarity, conductor size and current rating. For network plugs, browse PROUNTA's [RJ45 connector catalog](#).

How to Wire the RJ45 Screw Terminal Adapter

1. Obtain the connected equipment's RJ45 pinout; do not assume a universal Ethernet assignment.
2. Use a continuity tester to confirm which screw position corresponds to each plug contact.
3. Unplug the green terminal block from the black adapter housing.
4. Strip each wire to the terminal manufacturer's recommended length.
5. Insert conductors fully, keeping stray strands outside adjacent terminals.
6. Tighten each screw with the supplied flat-head screwdriver using appropriate torque.
7. Perform a pull check, inspect polarity and verify continuity and absence of shorts.
8. Reinsert the terminal block and connect the RJ45 male plug only after power is removed.

For related industrial connection products, see PROUNTA's [industrial and inverter connectors](#) and [pre-wired 8P8C connector assemblies](#).

OEM Manufacturing and B2B Supply

PROUNTA supplies specialty adapters to distributors, security brands, integrators, panel builders and test-equipment manufacturers. OEM/ODM options include terminal colors, pin markings, instructions, blister packs, barcodes, tools and cartons. Proprietary pin maps or harness versions can be reviewed.

Before production, provide the mating device, pinout, wire range, electrical limits, environment, packaging and volume. Samples should verify fit, retention, continuity and intended function.

Source RJ45 Screw Terminal Breakout Adapters from PROUNTA

A reliable breakout adapter requires accurate pin mapping, secure terminal clamps, durable housing and clear documentation. PROUNTA helps B2B buyers verify the intended application and approve samples before bulk or private-label production.

Technical specifications

Specification	Published value
Product type	Passive RJ45/8P8C screw-terminal breakout adapter
Modular interface	RJ45-style 8P8C male plug
Terminal interface	Removable 8-position screw terminal block
Signal paths	Eight independent conductors
Standard pin mapping	Direct 1-to-1 pin breakout; verify production model
Termination method	Solderless screw clamp
Typical wire range	Approximately 16–28 AWG, terminal dependent
Terminal pitch	Approximately 3.5mm, model dependent
RJ45 housing	Transparent polycarbonate
Adapter housing	Black molded thermoplastic
Terminal block	Green pluggable thermoplastic block with metal clamps
RJ45 contacts	Gold-plated copper alloy
Shielding	Unshielded standard version
Included tool	Small slotted screwdriver in standard retail kit
Electrical function	Passive conductor breakout; no signal conversion
Recommended use	Indoor low-voltage signal, control and test wiring
Customization	Housing label, pin map, terminal color and packaging options