

Industrial & Inverter RJ45 Plugs

Industrial PROFINET RJ45 Field Plug, Metal Housing, Shielded 8P8C Kit

**Key specifications**

Interface	RJ45 / 8P8C male, cable mount
Insert options	8P8C data; 4+2 (data + extra pins) on request
Termination	IDC / pierce, field assembly (no RJ45 crimp die)
Housing	Two-piece metal (zinc / nickel), screw-closed

Product summary

- Field-assembly shielded RJ45 (8P8C) plug for PROFINET and industrial Ethernet
- Two-piece zinc / nickel metal housing with strain-relief screws — no crimp die
- Gold-plated IDC / pierce insert; turquoise PROFINET wire manager included
- 360° shield bond from braid to metal hood for EMI-heavy cabinets
- Fits typical AWG 22–26 industrial PVC / PUR cable (green PROFINET jacket shown)
- Kit: plug insert, wire manager, two hood halves, two screws; assembled example on cable
- For PLC, drive, I/O, and switch patch leads built on the line or in the field
- OEM / ODM: housing finish, insert (8P8C or 4+2), packing, private label

Product page:

<https://www.cnplugs.com/product/profinet-rj45-field-plug-metal-hood-shielded-8p8c/>

Category: Industrial & Inverter RJ45 Plugs

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Product details

Metal-hood PROFINET RJ45 field plug for industrial Ethernet cables

This kit is a field-assembly industrial RJ45 plug, not a transparent office-style RJ45 plug and not a toolless Cat6A zinc keystone. The assembled end on the green cable is an 8P8C male nose in a two-piece metal hood. The loose parts are the gold-plated contact insert, the turquoise wire manager used on PROFINET jackets, the two nickel-plated housing halves, and the fastening screws. Panel builders and machine OEMs use it to terminate industrial Ethernet and PROFINET patch leads at the cabinet, on a drive, or at a remote I/O without a factory crimp press.

Buyers searching for a PROFINET RJ45 field plug, an industrial Ethernet metal connector, or a shielded 8P8C assembly kit will specify this part when the cable is PUR or PVC, the jacket is the familiar green, and the link must pass a noisy cabinet. It is not a [Cat6A office field plug](#) and not a [Cat7 load-bar crimp plug](#). Those are IT channel parts. This hood is built for [industrial Ethernet connectors](#) and PROFINET device ports.

Why the hood is metal and the manager is turquoise

PROFINET and most industrial Ethernet copper links run four balanced pairs in a shielded jacket. The metal halves close around the braid so the shield is 360° at the plug, not a drain wire stuffed under one screw. That bond is what keeps inverter noise off the controller. The turquoise (green-blue) insert is the PROFINET color code for the wire manager: it holds the pairs in the T568B / PROFINET map so the gold IDC blades pierce insulation in one press. Gold contacts keep resistance low after oil, condensation, and hundreds of mating cycles on a service laptop or a spare I/O module.

[PROFINET](#) is an Industrial Ethernet protocol. The connector on the cable is still the [8P8C modular connector](#) (RJ45) so it mates a standard device jack. Category performance is typically Cat5e class for 100 Mbit PROFINET; do not print Cat6A or 10G on this SKU unless you order a tested high-frequency insert. A 4+2 insert (four data contacts plus two extras for hybrid or diagnostic pins) is available on the same hood when the drawing calls for it — the photo insert with the extra top pins is that style of contact block.

How the field kit goes together

Strip the jacket, fold the braid back, dress the four pairs into the turquoise manager, push the manager into the white/metal insert until the IDC seats, then close the two hood halves and drive the screws. The white latch on the assembled plug is the RJ45 lock. No 8P8C crimp die is required; a small screwdriver and a pair of side cutters are enough on the machine floor. Re-termination is possible if a pair is crossed — cut back and start clean rather than prying blades twice.

Typical wire is AWG 22–26 stranded industrial Ethernet, jacket about 5.5–7.5 mm. Confirm OD on the drawing so the strain pocket closes on the jacket, not on the braid alone. PUR jackets for drag chains and PVC for static cabinet jumpers both fit when the OD window matches.

Where this plug is used

PLC-to-switch jumpers, drive and encoder PROFINET ports, remote I/O, cabinet pass-through leads, and spare-parts bags for OEMs who do not want to stock molded cords in every length. Indoor IP20 cabinets are the default. For washdown or IP67, this RJ45 kit is the wrong face — use an M12 D- or X-coded plug from the same industrial Ethernet range.

Buying notes for OEM and panel shops

Write the PO as: industrial PROFINET RJ45 field plug, metal hood, shielded, IDC, turquoise manager, 8P8C (or 4+2). Do not write “Cat7 RJ45 crimp plug” or “office RJ45.” Those will not close on a 6.5 mm PUR jacket or bond the braid. For finished green cords see PROFINET patch cables.

Technical specifications

Specification	Published value
Interface	RJ45 / 8P8C male, cable mount
Insert options	8P8C data; 4+2 (data + extra pins) on request
Termination	IDC / pierce, field assembly (no RJ45 crimp die)
Housing	Two-piece metal (zinc / nickel), screw-closed
Shielding	360° braid to hood
Wire manager	Turquoise PROFINET-coded insert
Contacts	Gold-plated copper alloy
Typical cable	AWG 22–26, industrial Ethernet / PROFINET, PVC or PUR
Typical jacket OD	Approx. 5.5–7.5 mm (confirm drawing)
Link class (typical)	100 Mbit PROFINET / Cat5e industrial Ethernet
Wiring	T568B / PROFINET pair map
Kit contents	Contact insert, wire manager, 2 hood halves, 2 screws
Protection	IP20 cabinet duty (not M12 IP67)
OEM / ODM	Insert type, hood finish, bag qty, private label