

Industrial & Inverter RJ45 Plugs

Transparent 26 mm RJ45 8P8C Plug for Inverter Operation Panels (100 pcs/box)



Key specifications

Connector type	RJ45 / 8P8C male modular plug (cable mount)
Positions / contacts	8 positions, 8 conductors
Body length	26 mm (L=26 mm mid-length RJ45 plug)
Housing material	Transparent polycarbonate (PC)

Product summary

- Transparent 26 mm RJ45 8P8C male plug for inverter operation panels and keypad cables.
- Clear polycarbonate housing for checking conductor placement before and after crimping.
- Intermediate body length: longer than a 22 mm LAN plug and shorter than a 33 mm panel plug.
- 0.30 mm brass contacts with selective gold-over-nickel plating for keyboard and Ethernet connections.
- IDC termination for 24–26 AWG, 8-conductor Cat5e/Cat6 flat or round cable.
- Rated 1.5 A / 125 VAC; insulation resistance $\geq 1,000 \text{ M}\Omega$; withstand voltage 1,000 VAC RMS (EIA-364).
- Operating range: $-20 \text{ }^{\circ}\text{C}$ to $+70 \text{ }^{\circ}\text{C}$ in enclosed drive cabinets.
- Factory pack: 100 pcs/box for OEM harness lines, panel builders and MRO stock.

Product page:

<https://www.cnplugs.com/product/rj45-8p8c-crystal-head-26mm-inverter-operation-panel-plug/>

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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

26 mm Transparent RJ45 8P8C Plug for Inverter Operation Panels

This transparent 26 mm 8P8C RJ45 plug is designed for inverter operation panels, remote keypads and industrial Ethernet patch leads. Panel builders specify the body length to match the port: a 22 mm LAN plug may be too short for a recessed jack, while a 33 mm panel plug can extend too far on a shallow bezel.

The clear polycarbonate housing lets quality-control staff inspect conductor placement before crimping and helps technicians verify the pin map after assembly. For a deeper panel recess, compare this plug with 33 mm VFD panel RJ45 plugs.

A variable-frequency drive changes motor speed by converting fixed-frequency line power into a variable-frequency, variable-voltage output. The operator panel is how technicians set that speed, read faults, and copy parameters from drive to drive. That link is only as good as the 8P8C plug on the end of the keypad cable. This part is built for that duty: gold-flashed brass contacts, a rigid clear shell, and a latch that stays seated when a cabinet door closes on a short harness.

Clear housing, gold-selective contacts

The insulator is transparent polycarbonate so LED activity on the jack and conductor order inside the plug stay visible. Terminals are 0.30 mm brass with selective gold plating over nickel (1 µin standard; 3 / 15 / 30 µin on request). Gold keeps contact resistance at or below 40 mΩ after oxidation and after repeated keypad swaps. Electrical ratings follow EIA methods used by industrial buyers: insulation resistance 1,000 MΩ minimum at 500 VDC (EIA-364-21C); dielectric withstand 1,000 VAC RMS or 1,500 VDC at 0.5 mA, 50/60 Hz, one minute (EIA-364-20B); 1.5 A at 25 °C; 125 VAC. Operating temperature is –20 °C to +70 °C; store at –10 °C to +40 °C with relative humidity below 80%.

Termination is IDC crimp for 24–26 AWG stranded, solid, or flat 8-conductor cable, including Cat5e and Cat6 jackets used on inverter comms. A load bar keeps the eight wires in order so a standard 8P8C crimp tool finishes the joint in one stroke. That matters on a harness cell running thousands of operation-panel cables per week.

Where this 26 mm plug is used

Typical jobs include detachable VFD operation panels, remote LCD keypads, parameter copy sticks, Modbus RTU links that use an RJ45 shell, short Ethernet/IP or Modbus TCP jumpers at the drive, spindle-inverter comms on CNC routers, HVAC fan-wall cabinets, and spare-parts kits for system integrators.

Building a door-mounted operator station? Combine this RJ45 plug with a panel-mount RJ45 coupler and a matching industrial Ethernet connector so the door cable unplugs without opening the enclosure.

Technical specifications

Specification	Published value
Connector type	RJ45 / 8P8C male modular plug (cable mount)
Positions / contacts	8 positions, 8 conductors
Body length	26 mm (L=26 mm mid-length RJ45 plug)

Specification	Published value
Housing material	Transparent polycarbonate (PC)
Contact material	Brass, 0.30 mm thick
Contact plating	Selective gold over nickel, 1 µin standard (3 / 15 / 30 µin optional)
Shielding	Unshielded UTP RJ45 plug
Termination	IDC crimp
Wire / cable	24-26 AWG; Cat5e / Cat6; flat or round 8-conductor
Current rating	1.5 A at 25 °C
Voltage rating	125 VAC
Contact resistance	≤ 40 mΩ
Insulation resistance	≥ 1,000 MΩ at 500 VDC (EIA-364-21C)
Dielectric withstanding voltage	1,000 VAC RMS or 1,500 VDC, 0.5 mA, 50/60 Hz, 1 min (EIA-364-20B)
Operating temperature	−20 °C to +70 °C
Storage temperature	−10 °C to +40 °C
Relative humidity	< 80%
Standard pack	100 pcs/box
Compliance	RoHS; REACH on request
OEM / ODM	Gold thickness, load bar, inner-box mark, mixed cartons