

✓ RoHS & CE	✓ UL 94V-0/V-2
✓ Fluke Tested	✓ OEM / ODM

INDUSTRIAL-GRADE RJ45 CONNECTOR SERIES

Premium Shielded 10P10C Connector (RJ50) – 50µ" Gold Plated for Industrial Data Cables

Online Product Page:
https://www.hxplug.com/shielded-10p10c-modular-connector-rj50/

KEY PRODUCT HIGHLIGHTS

- Connector Standard: 10P10C (Often referred to as RJ50) Shielded Modular Plug
- Housing Material: High-impact Polycarbonate (PC), UL94V-0 / UL94V-2 flame retardant
- Shielding Shell: Brass with nickel plating for superior EMI/RFI protection
- Contact Pins: Phosphor bronze with premium 50µ" gold plating
- Cable Compatibility: Supports 24 AWG to 26 AWG solid and stranded copper wires
- Applications: Barcode scanners, UPS communication links, medical devices, and custom serial cables
- Compliance: 100% RoHS and REACH compliant, ISO9001 certified manufacturing

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Connector Type	10P10C (10 Position, 10 Contact), Shielded
Common Name	RJ50 Connector / 10 Pin Modular Plug
Housing Material	Polycarbonate (PC), UL94V-0 / UL94V-2 Rated
Shielding Material	Brass with Nickel Plating
Contact Material	Phosphor Bronze
Plating Thickness	50µ" (Micro-inches) Gold Plating
Wire Compatibility	24 AWG - 26 AWG (Solid & Stranded Wire)
Mating Life	≥ 1,200 Cycles
Current Rating	1.5 Amps (Maximum)
Voltage Rating	150 Volts AC (Maximum)
Operating Temperature	-40°C to +85°C

ENGINEERING OVERVIEW & APPLICATIONS

- Exceptional Mating Cycles: Guaranteed to withstand over 1,200 insertion and extraction cycles without wearing down the conductive surface.
- Oxidation & Corrosion Resistance: Prevents rust and contact resistance buildup, even in highly humid or chemically harsh industrial environments.
- Superior Conductivity: Ensures ultra-low contact resistance for both low-voltage data signals and Power over Ethernet (PoE) or custom power delivery applications.

Primary Industry Applications

- Point of Sale (POS) & Scanners: Used extensively in Motorola, Symbol, and Zebra barcode scanners for serial data transfer and direct power supply.
- Power Equipment Management: The preferred interface for APC UPS (Uninterruptible Power Supply) communication ports to monitor battery health and trigger automated shutdowns.

- Automotive & Medical Diagnostics: Utilized in proprietary scanning tools where multiple signal protocols need to be transmitted simultaneously in a small form factor.
- Custom Control Systems: Ideal for factory automation setups, servo motor controllers, and customized RS-232 / RS-485 serial communication patch cables.

Gold Plating Options FU" / 3μ" / 6μ" / 15μ" / 30μ" / 50μ" Custom Gold Plating	**100% Quality Assurance** Fluke Versiv / DSX Tested, Salt-Spray & ≥750–2000 Mating Cycles
OEM / ODM Customization Custom Mold Tooling, Housing Colors, Cable Lengths & Private Label	**Certifications & Compliance** ISO 9001:2015, RoHS, REACH, CE, UL 94V-0 / UL 94V-2 Rated

Need Custom Gold Plating (3μ"–50μ"), Custom Molding, Private Label Packaging, or Bulk Factory Pricing?
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