

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

MODULAR PLUG SERIES

Industrial-Grade RJ50 10P10C Unshielded Modular Plug - 10-Pin High-Precision Connector for UPS, CNC, and Specialized Data Communication

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

KEY PRODUCT HIGHLIGHTS

- High-Density 10P10C Layout: Featuring 10 positions and 10 contacts (RJ50), providing high-density signal paths for specialized serial and industrial data equipment.
- Universal Equipment Compatibility: Perfectly engineered for APC UPS units, CNC machinery, handheld scanners, and various medical diagnostic devices.
- Superior Signal Integrity: Equipped with 50 micro-inch gold-plated phosphor bronze contacts to ensure stable transmission and maximum resistance to oxidation.
- Durable Polycarbonate Housing: Constructed from high-impact clear polycarbonate (UL 94V-2 or 94V-0) for long-lasting physical protection and easy cable inspection.
- Adaptive Wire Support: Compatible with both solid and stranded 24-26 AWG wires, making it versatile for custom field terminations and factory-made cables.
- Professional HXPLUG Quality: Every connector is precision-molded to meet international industrial standards, ensuring a secure click-lock fit every time.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Product Name	RJ50 10P10C Unshielded Connector
Brand	HXPLUG
Modular Type	10P10C (10 Positions, 10 Contacts)
Shielding Type	Unshielded (UTP)
Contact Material	Phosphor Bronze
Plating	Industrial 50u Gold over Nickel
Housing Material	High-Impact Polycarbonate (Clear)
Wire Compatibility	24 AWG - 26 AWG (Solid / Stranded)
Mating Cycles	≥ 750 Insertions
Working Temp	-40C to 85C
Compliance	RoHS , REACH, UL Listed

ENGINEERING OVERVIEW & APPLICATIONS

In the complex world of industrial automation and specialized telecommunications, the standard 8-pin RJ45 is often insufficient. The RJ50 10P10C Unshielded Connector from HXPLUG is designed to fill this critical gap. With 10 full positions and contacts, this modular plug provides the additional signal lanes required for modern CNC control systems, Uninterruptible Power Supply (UPS) monitoring, and high-end data collection hardware. At HXPLUG, we

understand that in these mission-critical sectors, a single loose pin can lead to catastrophic downtime, which is why our 10P10C connectors are built to the highest precision standards.

The RJ50 10P10C Unshielded Connector is manufactured using premium-grade clear polycarbonate. This transparent housing allows technicians to visually verify wire alignment (following TIA or custom pinouts) before crimping, significantly reducing the error rate during high-volume production. The 10-pin design is housed in a frame similar in size to a standard RJ45, yet it requires specialized 10-pin crimping tools. HXPLUG ensures that the physical dimensions and tolerances of every plug are exact, preventing the "wobble" often found in generic 10-pin alternatives.

Signal purity is the hallmark of HXPLUG products. Our RJ50 10P10C Unshielded Connector features contacts treated with a deep 50-micron gold plating. This is significantly thicker than standard consumer-grade connectors, providing a robust layer that resists environmental corrosion and surface oxidation. In industrial settings where moisture or chemical vapors may be present, this extra layer of protection ensures that the low-voltage serial signals remain crisp and uninterrupted, even after years of continuous service in harsh environments.

HXPLUG specializes in providing tailored solutions for the B2B sector. We recognize that the RJ50 10P10C Unshielded Connector is often used in proprietary systems with unique pinout requirements. We offer:

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

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