

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

MODULAR PLUG SERIES

10P10C Modular Plug: High-Performance Unshielded RJ50 Connector with 50µ" Gold Plating

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

KEY PRODUCT HIGHLIGHTS

- High-Density 10P10C Modular Plug: Engineered for 10-position, 10-contact RJ50 applications.
- 50µ" Gold Plating: Ensures the 10P10C modular plug provides superior conductivity and corrosion resistance.
- Broad Compatibility: Fits 24-26 AWG round or flat cables, supporting both solid and stranded wires.
- Industrial Grade: This 10P10C modular plug is the standard for APC UPS, scanners, and medical devices.
- Durable Latch: High-resilience PC material allows the clip to bend 180° without breaking.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Product Type	10P10C Modular Plug (RJ50)
Housing Material	Clear Polycarbonate (UL 94V-2)
Contact Plating	50µ" Gold over Nickel
Compatibility	Cat5e/Cat6 specialized cables
Wire Gauge	24 - 26 AWG
Interface	Unshielded (UTP)
Durability	> 1000 Mating Cycles

ENGINEERING OVERVIEW & APPLICATIONS

In specialized industrial networking, the 10P10C modular plug (commonly known as RJ50) is essential for equipment that requires more than the standard 8 pins. Unlike typical RJ45 connectors, this 10P10C modular plug provides two additional contacts, making it perfect for complex serial communication and high-density data transmission. Whether you are maintaining mission-critical UPS systems or medical sensors, our connector ensures a stable, high-speed link.

The reliability of a 10P10C modular plug starts at its contact points. We use premium phosphor bronze contacts with 50 micro-inch gold plating . This is the thickest plating available in the industry, which prevents oxidation and ensures the 10P10C modular plug maintains low contact resistance even after 1000+ insertion cycles. For more technical details on modular plug standards, you can refer to the ANSI/TIA-568 standards.

Each 10P10C modular plug is manufactured using high-quality, UL-listed Polycarbonate. This material offers exceptional transparency, allowing for easy visual inspection of the wire sequence before crimping. The latch is designed with "anti-snag" flexibility; you can bend it multiple times during installation without fear of snapping, which is a common failure point in cheaper 10P10C modular plug alternatives.

This 10P10C modular plug is highly versatile and widely used in:

- Power Management: Standard for APC UPS monitoring ports.
- Data Capture: Ideal for industrial barcode scanners and POS terminals.
- Healthcare: Used in patient monitoring cables and diagnostic tools.

- Serial Comms: Perfect for custom RS-232 or RS-485 interfaces.

As a leading provider of connectivity solutions, we ensure every 10P10C modular plug meets strict quality benchmarks. We also offer internal link: other modular plugs to help you find the right connector for any project. Our 10-pin design undergoes rigorous tension and salt spray testing, ensuring that your industrial data networks remain online 24/7.

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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