

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

CAT5E RJ45 CONNECTOR SERIES

Pro-Installer Cat5e Unshielded RJ45 Connector 8P8C Modular Plug - 50µ" Gold Plated with Ultra-Flexible Latch

Online Product Page:
https://www.hxplug.com/pro-installer-cat5e-unshielded-rj45-connector/

KEY PRODUCT HIGHLIGHTS

- Engineered for Reliability : Premium Cat5e UTP RJ45 connector designed for Gigabit Ethernet (1000Mbps) applications in VoIP and data environments.
- Superior Contacts : Genuine 50 micro-inch gold plating over phosphor bronze contacts ensures long-term oxidation resistance and maximum signal conductivity.
- Flexible Latch : Features an ultra-resilient snagless latch tested to bend 180 degrees over 20 times without breaking, perfect for tight spaces.
- Easy Crimp Design : Precisely aligned 8P8C structure allows smooth wire insertion and clean termination with any standard RJ45 crimping tool.
- Certified Quality : Manufactured from high-transparency Polycarbonate (UL 94V-2), fully compliant with RoHS, REACH, and FCC standards.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Specifications	Technical Details
Product Type	Unshielded RJ45 (8P8C)
Category	Cat5e (UTP)
Housing Material	High-Transparency PC (UL 94V-2)
Contact Blade	3-Prong Phosphor Bronze
Gold Plating Thickness	Genuine 50µ" (Micron)
Wire Compatibility	24 - 26 AWG Solid & Stranded
Max Insulated Conductor OD	1.00 mm
Transmission Speed	Up to 1000Mbps (1Gbps)
Compliance	RoHS, REACH, ISO9001

ENGINEERING OVERVIEW & APPLICATIONS

In modern telecommunications, particularly in high-density corporate offices and call centers, the reliability of a physical connection is paramount. The Pro-Installer Cat5e Unshielded RJ45 Connector from HXPLUG is not just another piece of plastic; it is a meticulously engineered component designed to eliminate network downtime caused by loose connections or corroded contacts. It is the perfect terminating link for Cat5e UTP horizontal cabling systems supporting voice, data, and video transmission.

A major pain point for network installers is broken locking tabs (latches). A broken tab means a wasted connector and time-consuming re-termination. Our Cat5e 8P8C modular plugs are molded from 100% virgin Polycarbonate (PC) with specific additives that increase elasticity. We test our flexible latches to withstand over 20 bends of 180 degrees without snapped tabs . This gives installers the confidence to pull cables through tight conduits or patch panels without fear of snagging or breaking the connector.

When it comes to signal integrity, gold is the standard. However, not all gold plating is equal. Many generic connectors use a thin "flash" plating that quickly wears off. HXPLUG guarantees genuine 50 micro-inch (50µ") gold plating on every

phosphor bronze contact blade. This deep plating ensures a gas-tight connection at the termination point, dramatically reducing contact resistance and preventing oxidation even in humid or harsh B2B environments over decades of use.

Conductivity isn't just about gold; it's also about mechanical contact. Our contact blades feature a optimized 3-prong design . Unlike standard 2-prong versions that might only shave the wire's surface, the 3-prong blade pierces the insulation and wraps around the copper conductor more securely. This design works exceptionally well with both Solid horizontal cabling and Stranded patch cord wires, providing a low-resistance, high-reliability termination that consistently passes Fluke patch cord component testing .

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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