

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

CAT5E RJ45 CONNECTOR SERIES

High-Conductivity Cat5e UTP OFC Connector - Thickened 8P8C Oxygen-Free Copper Modular Plug with 50μ" Gold Plating

Online Product Page:
https://www.hxplug.com/cat5e-utp-ofc-connector-thickened-heavy-duty-8p8c/

KEY PRODUCT HIGHLIGHTS

- Oxygen-Free Copper (OFC) Contacts : This Cat5e UTP OFC Connector utilizes high-purity oxygen-free copper for superior electrical conductivity and minimal signal attenuation.
- Heavy-Duty Thickened Shell : Featuring a reinforced, thickened polycarbonate body to provide extra mechanical strength and a more stable crimping experience.
- 50μ" Industrial Gold Plating : Genuine 50 micro-inch gold plating ensures maximum oxidation resistance and over 750 insertion cycles for long-term reliability.
- Gigabit Ready Performance : Engineered for high-speed Cat5e UTP networking, supporting 1000Mbps transmission with ease in home and office environments.
- Universal 3-Prong Blade : Compatible with both solid and stranded 24-26 AWG wires, ensuring a gas-tight, vibration-proof connection every time.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Product Feature	Technical Details
Product Model	Cat5e UTP OFC Heavy Duty Series
Contact Material	High-Purity Oxygen-Free Copper (OFC)
Housing Material	Thickened High-Grade Polycarbonate (PC)
Gold Plating	Genuine 50μ" (Micron) Gold
Interface Type	8P8C (Standard RJ45)
Blade Structure	3-Prong (Optimized for Solid & Stranded)
Performance Rate	100MHz / 1000Mbps (Gigabit)
Wire Compatibility	24AWG - 26AWG
Flammability	UL 94V-2 / 94V-0 Rated
Compliance	RoHS, REACH, FCC, ISO9001

ENGINEERING OVERVIEW & APPLICATIONS

In modern network infrastructure, the physical layer's quality directly impacts the overall data throughput. Our Cat5e UTP OFC Connector is specifically engineered for professional installers who demand the highest signal integrity. By replacing standard phosphor bronze with high-purity Oxygen-Free Copper (OFC) at the contact point, we've significantly reduced the electrical resistance. This results in cleaner signal transmission, lower heat generation during PoE (Power over Ethernet) usage, and zero lag for Gigabit Ethernet applications.

One of the most common issues in the field is a loose or cracked connector shell during high-pressure crimping. To solve this, the Cat5e UTP OFC Connector features a Thickened Heavy-Duty PC body . This reinforced housing material provides superior dimensional stability, ensuring that the modular plug locks firmly into the network port and maintains

a precise alignment of the contacts. This added durability makes it the ideal choice for high-traffic environments where patch cords are frequently moved or reconfigured.

At HXPLUG , we understand that B2B projects require longevity. Every Cat5e UTP OFC Connector in this series is finished with an industrial-grade 50 micro-inch (50µ") gold plating . Unlike standard gold-flash connectors that oxidize within months, our 50µ" layer provides a permanent shield against humidity and environmental corrosion. This ensures that even after decades of service, your network connection remains as stable as the day it was installed.

The mechanical design of our Cat5e UTP OFC Connector utilizes a high-performance 3-Prong Blade . This design is superior because it pierces the insulation and wraps around the copper core from three different angles. This "wrap-around" effect creates a larger contact surface area, which is crucial for maintaining signal stability in high-vibration environments or high-density patch panels. It is fully compatible with 24AWG and 26AWG cables, making it a versatile tool for any networking professional's toolkit.

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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