

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

CAT6A RJ45 CONNECTOR SERIES

Cat7 Shielded RJ45 Connector 1.5mm - Premium Full-Wrap Gold-Plated Copper Shell Two-Piece Modular Plug for 22AWG STP Cables

Online Product Page:
https://www.hxplug.com/cat7-shielded-rj45-connector-1-5mm-full-cover/

KEY PRODUCT HIGHLIGHTS

- Ultra-Large 1.5mm Wire Entry: The Cat7 Shielded RJ45 Connector 1.5mm is purpose-built for high-end 22AWG Cat7 and Cat8 cables with thick insulation.
- Full-Cover Copper Shielding: Features a premium "Full-Wrap" copper shell with deep gold plating for maximum 360-degree EMI/RFI protection.
- Two-Piece Load Bar Design: Includes a precision liner that simplifies wire alignment and maintains signal integrity for flawless 10Gbps data transmission.
- Boot Compatibility: Optimized to fit with professional-grade large-OD strain relief boots for ultimate tab protection and durability.
- Industrial 50µ" Gold Contacts: High-purity phosphor bronze pins with 50 micro-inches of gold ensure zero-loss connectivity over 750+ mating cycles.

TECHNICAL SPECIFICATIONS & PARAMETERS

Parameter	Specification / Standard
Product Name	Cat7 Shielded RJ45 Connector 1.5mm
Category Standard	Category 7 (Augmented) / Cat8 Ready
Shielding Type	Full-Wrap STP (Gold-Plated Copper)
Wire Hole Diameter	1.5mm (Ultra-Large Entry)
Mechanical Design	Two-Piece (Body + Staggered Load Bar)
Contact Material	Phosphor Bronze with 50µ" Gold Plating
Wire Gauge Support	22AWG - 23AWG (Solid or Stranded)
Transmission Rate	10 Gbps (10,000 Mbps)
Bandwidth Support	Up to 600 MHz
Environmental Standard	RoHS, REACH, UL 94V-0 Rated

ENGINEERING OVERVIEW & APPLICATIONS

The Cat7 Shielded RJ45 Connector 1.5mm is the definitive industrial choice for modern high-bandwidth infrastructure. As data centers and enterprise networks upgrade to 10Gbps and beyond, the cables used (such as 22AWG S/FTP) have become significantly thicker and more difficult to terminate. Standard RJ45 plugs simply cannot accommodate the insulation of these premium cables. Our Cat7 Shielded RJ45 Connector 1.5mm bridges this gap, offering the necessary 1.5mm internal clearance while providing superior shielding performance.

Interference is the enemy of high-speed data. The Cat7 Shielded RJ45 Connector 1.5mm stands out with its unique Full-Wrap (Full-Cover) shield. Unlike standard connectors where the metal shell only covers part of the plug, our "Full-Wrap" design ensures the copper shell completely encases the internal components. Made of high-purity copper and fully gold-plated, this shell provides unmatched grounding and immunity to electromagnetic interference (EMI). The gold plating prevents oxidation, ensuring that your network's shielding remains effective even in harsh or humid environments.

Termination accuracy is critical for Category 7 certification. The Cat7 Shielded RJ45 Connector 1.5mm utilizes a Two-Piece system featuring a specialized Load Bar (Liner) . This bar allows the technician to pre-arrange and lock the wires into the correct T568A or T568B sequence outside the main plug body. Once the wires are trimmed flush, the assembly slides into the housing. This ensures that the twists of the internal wire pairs are maintained right up to the contact point, drastically reducing Near-End Crosstalk (NEXT) and helping the cable pass rigorous Fluke tests.

Modern networks often carry massive power alongside data. Our Cat7 Shielded RJ45 Connector 1.5mm is fully compatible with Power over Ethernet (PoE, PoE+, and PoE++ 802.3bt). The low-resistance gold-plated copper shell and 50µ" pins prevent heat buildup at the connection point. Additionally, this connector is designed to be paired with specialized large-diameter boots. These boots protect the critical locking tab from snagging and provide a clean, professional finish for your high-end cabling projects.

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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