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› [Tecmojo CAT8 Shielded RJ45 Tooless Field Plug Instruction Manual](#)

## Tecmojo 5065023707546

# Tecmojo CAT8 Shielded RJ45 Tooless Field Plug Instruction Manual

Model: 5065023707546

## 1. PRODUCT OVERVIEW

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The Tecmojo CAT8 Shielded RJ45 Tooless Field Plugs are designed for high-performance network applications, supporting 40 Gigabit Ethernet (40GBASE-T). These connectors meet or exceed current CAT8 transmission standards, offering performance up to 2000MHz and compatibility with cable lengths up to 30 meters. They feature a tool-free design for simplified installation and are suitable for a wide range of applications from home networks to data centers.



Image 1.1: Two Tecmojo CAT8 Shielded RJ45 Tooless Field Plugs.

## Key Features:

- **Tool-Free Design:** Facilitates quick and easy termination without specialized tools.
- **High Performance:** Supports 40G Ethernet (40GBASE-T) and meets CAT8 standards up to 2000MHz.
- **Shielded Construction:** Overall zinc alloy shielding reduces EMI/RFI interference, ensuring signal integrity.
- **Backward Compatibility:** Compatible with CAT6A, CAT6, and lower category cables.
- **Flexible Cable Entry:** Offers optional 180-degree straight or 90-degree angled cable entry for versatile installations.
- **Durable Contacts:** Phosphor bronze contacts with 50µ' gold plating for reliable connections and 750 insertion durability.

## 2. PACKAGE CONTENTS

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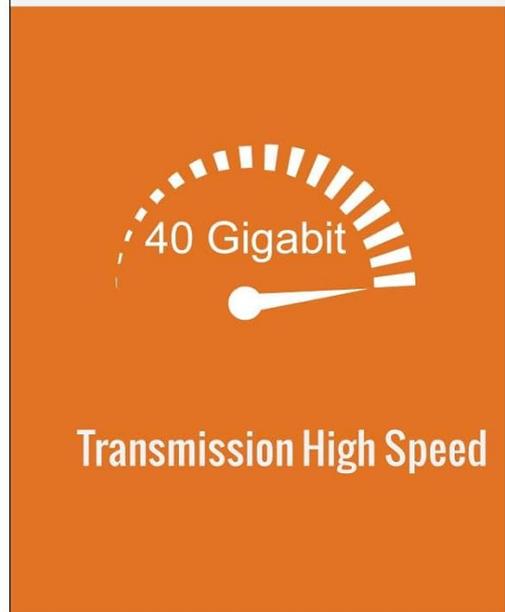
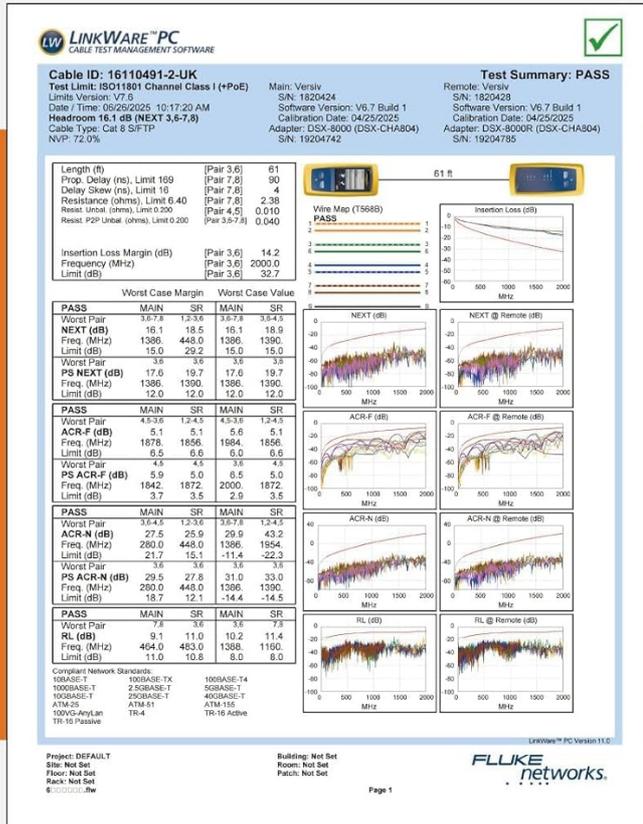
Each package contains the following components:

- Tecmojo CAT8 Shielded RJ45 Tooless Field Plug (2 units)

- Shielded Field Plug components (housing, wire management block, strain relief boot, copper shielding strip)

# Compliance Certification

## Cat8 shielded field plug



Tec  
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Image 2.1: Exploded view showing the individual components of the Tecmojo CAT8 Shielded RJ45 Toolless Field Plug, including the main body, wire management block, strain relief, and copper shielding strip.

### 3. SPECIFICATIONS

| Specification  | Detail        |
|----------------|---------------|
| Brand          | Tecmojo       |
| Model Number   | 5065023707546 |
| Connector Type | RJ45          |
| Cable Type     | Ethernet      |

| Specification           | Detail   |
|-------------------------|--|
| Ethernet Cable Category | Cat 8  |
| Data Transfer Rate      | 40 Gigabits Per Second   |
| Frequency               | 2000 MHz   |
| Number of Pins          | 8  |
| Special Feature         | Shielded for Signal Protection   |
| Compatible Devices      | High-Performance Network Switches, IP Security Cameras, Industrial Ethernet Equipment, Servers, WiFi Access Points |
| Specification Met       | IEC, ISO, TIA  |
| Indoor Outdoor Usage    | Indoor   |
| Item Weight             | 0.1 Kilograms (per unit, approximate)  |



Image 3.1: Compliance certification details highlighting 40 Gigabit transmission capabilities.

## 4. SETUP AND INSTALLATION

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Follow these steps to properly terminate an Ethernet cable with the Tecmojo CAT8 Shielded RJ45 Tooless Field Plug:

1. **Prepare the Cable:** Carefully strip approximately 30mm (1.2 inches) of the outer jacket from the Ethernet cable. Ensure not to damage the twisted pairs or the shielding underneath.
2. **Expose Wires and Shielding:** Untwist the wire pairs and straighten them. If your cable has foil shielding around the pairs, fold it back. Ensure the drain wire (if present) is intact.
3. **Arrange Wires:** Insert the 8 individual wires into the wire management block according to the TIA/EIA T568A or T568B wiring standard. The block is color-coded to guide you. Ensure each wire is fully seated into its designated slot.

## Free Choice of Cable Entry Directions

180° Straight



90° Angled



Image 4.1: Wiring diagram illustrating the TIA/EIA T568B standard for inserting wires into the management block. Ensure wires are flush cut after insertion.

4. **Trim Wires:** Once all wires are correctly seated in the management block, use a flush cutter to trim any excess wire protruding from the top of the block. The wire ends should be flush with the block's surface.
5. **Insert Wire Block into Connector:** Carefully place the wire management block with the terminated wires into the main body of the RJ45 plug. Ensure it clicks securely into place.
6. **Apply Shielding (if applicable):** If your cable has a drain wire or additional shielding, ensure it makes contact with the metal housing of the connector for proper grounding. The included copper strip can be used to enhance shielding contact if needed.
7. **Close the Connector:** Close the two halves of the connector housing firmly until they snap together. Apply sufficient pressure to ensure a tight seal.
8. **Attach Strain Relief and Choose Cable Entry:** Screw on the strain relief boot. You can choose between a 180-degree straight entry or a 90-degree angled entry by rotating the boot and main body before fully tightening.

## Shielded Cat8 Applications

Insert the 8 Wires according to wiring label

Take TIA/EIA T568B as an Example

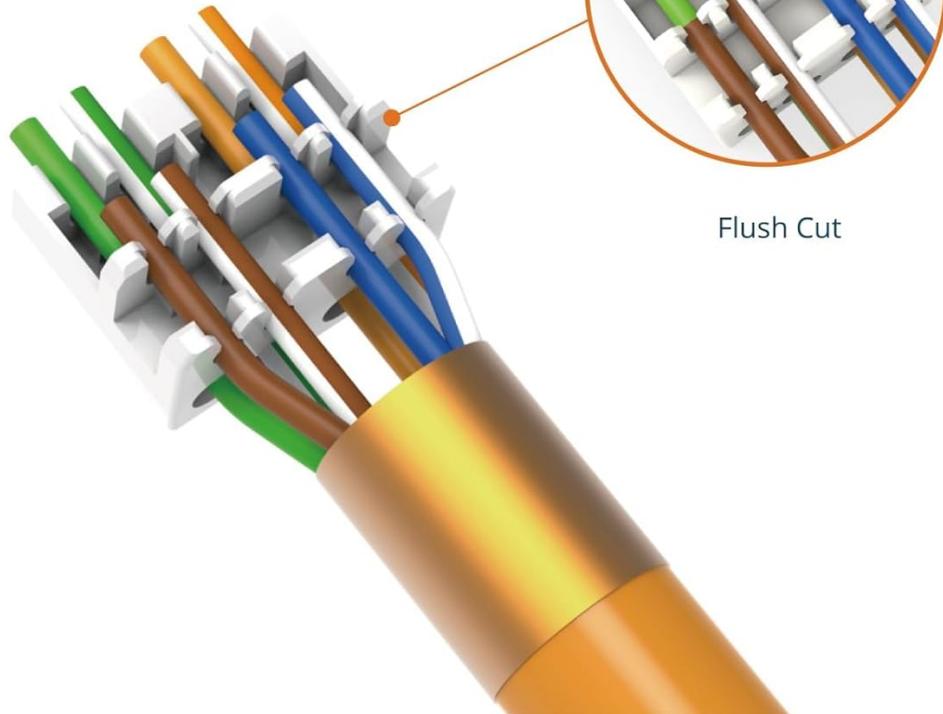
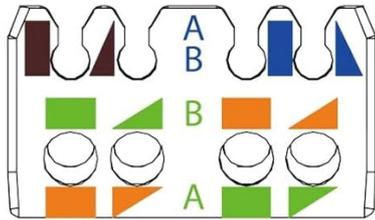
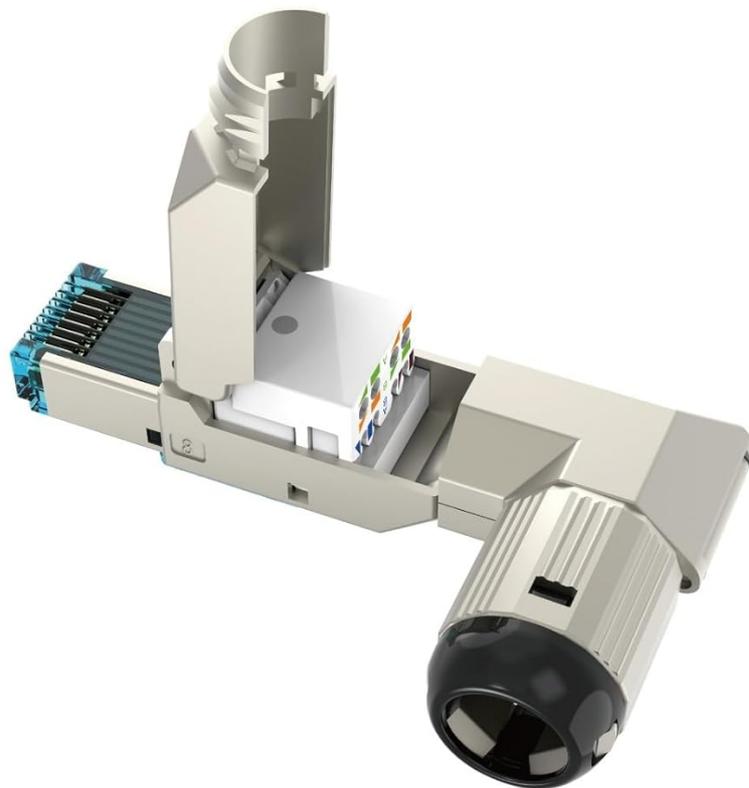


Image 4.2: The connector offers flexibility for either a 180-degree straight or 90-degree angled cable entry, allowing for optimized cable routing.

## Shielded Cat8 Applications



Easy Installation



Space Saving



RJ45



Cat8

Image 4.3: The design emphasizes easy installation and space-saving benefits for Cat8 RJ45 applications.

## 5. OPERATING INSTRUCTIONS

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Once the Tecmojo CAT8 Shielded RJ45 Tooless Field Plug is correctly installed on your Ethernet cable, it is ready for use. Connect the terminated cable to any compatible network device, such as a network switch, router, server, IP camera, or WiFi access point.

- Ensure the connector is fully inserted into the port until it clicks, indicating a secure connection.
- To disconnect, gently press the retaining clip on the connector and pull it out of the port. Avoid pulling the cable directly to prevent damage.
- The shielded design helps maintain signal integrity in environments with electromagnetic interference.



Image 5.1: The Tecmojo CAT8 RJ45 connector provides a high-speed 40 Gigabit connection when properly installed and connected to a compatible device.

## 6. MAINTENANCE

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The Tecmojo CAT8 Shielded RJ45 Toolless Field Plug requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Keep Clean:** Periodically inspect the connector for dust or debris. Use a soft, dry cloth or compressed air to clean the contacts if necessary.
- **Avoid Physical Stress:** Do not bend or twist the cable excessively near the connector. Ensure cables are properly routed and secured to prevent strain on the connection points.
- **Proper Storage:** If not in use, store connectors in a clean, dry environment to prevent corrosion or damage to the contacts.

## 7. TROUBLESHOOTING

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If you encounter issues with your Tecmojo CAT8 Shielded RJ45 Tooless Field Plug, consider the following troubleshooting steps:

- **No Network Connection:**

- Verify that the cable is securely plugged into both the device and the network port.
- Re-check the wiring within the connector. Ensure all 8 wires are correctly seated according to the T568A/B standard and trimmed flush.
- Confirm the cable gauge (AWG) is compatible. These connectors are designed for thicker gauge cables (typically 22-24 AWG). Thinner cables (e.g., 30-32 AWG) may not make proper contact, leading to intermittent or failed connections.
- Test the cable with a network cable tester to identify any breaks or miswires.

- **Slow Connection Speed:**

- Ensure all network components (cable, switch, router, network card) are rated for CAT8 or 40 Gigabit speeds.
- Check for excessive cable length. CAT8 performance is optimized for lengths up to 30 meters.
- Verify that the shielding is properly grounded to minimize interference.

- **Connector Not Closing Properly:**

- Ensure all wires are trimmed flush and no excess material is obstructing the closing mechanism.
- Confirm the wire management block is fully seated before attempting to close the main housing.

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Tecmojo CAT8 Shielded RJ45 Tooless Field Plug, please refer to the product packaging or contact Tecmojo customer service directly. Contact details can typically be found on the manufacturer's official website or through your point of purchase.