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## PETECHTOOL 8541697960

# PETECHTOOL RJ45 CAT6 Pass-Through Ethernet Connector

## INSTRUCTION MANUAL



### Introduction

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The PETECHTOOL RJ45 CAT6 Pass-Through Ethernet Connectors are designed for efficient and reliable termination of Ethernet cables. These 8P8C modular plugs facilitate easier wire insertion and verification, ensuring optimal signal integrity for your network connections. This manual provides detailed instructions for proper use and care.

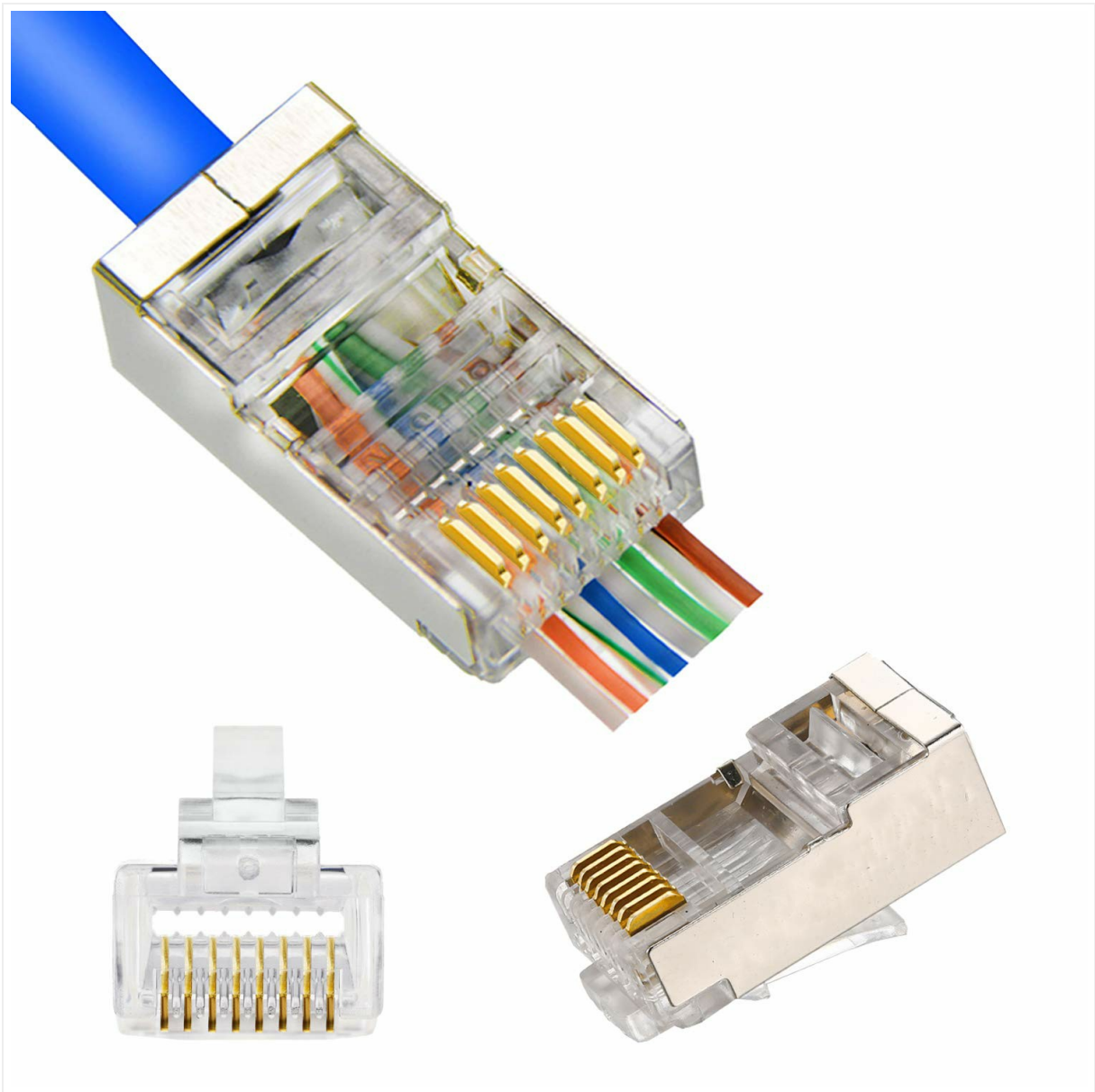


Image: A pack of 20 PETECHTOOL RJ45 CAT6 Pass-Through Ethernet Connectors.

## Product Features

- **Pass-Through Design:** Simplifies terminations by allowing wires to pass through the connector, enabling easier wire sequence verification and closer positioning of twists to contacts.
- **Enhanced Signal Integrity:** Gold-plated 8P8C contacts reduce the distance between wire twists and contacts, promoting stable data flow and clarity.
- **Reduced Crosstalk:** Designed to minimize pair-to-pair crosstalk and improve immunity to noise, especially at higher frequencies.
- **Flexible Retention Clip:** Features a durable retention clip that maintains its integrity even after significant bending, ensuring a secure connection.
- **Compatibility:** Works effectively with most pass-through crimper tools and is suitable for 24AWG CAT5 and CAT6 cables. *Note: Not suitable for 23AWG cable.*

## TOOL

### Pass thru crimp and Termination



Image: Close-up view of the connector's gold-plated 8P8C contacts, highlighting their design for optimal performance.

## TOOL

### Pass thru crimp and Termination



Image: Illustration demonstrating the flexibility and durability of the connector's retention clip, capable of bending up to 180 degrees.

## Setup: Ethernet Cable Termination

Follow these steps to properly terminate an Ethernet cable with a PETECHTOOL RJ45 Pass-Through Connector:

1. **Prepare the Cable:** Carefully strip approximately 1 inch (2.5 cm) of the outer jacket from the end of your Ethernet cable using a cable stripper. Be cautious not to cut or nick the inner wires.
2. **Untwist and Straighten Wires:** Untwist the four pairs of wires and straighten each individual wire.
3. **Arrange Wires:** Arrange the wires according to the T568B or T568A wiring standard. T568B is the most common standard.

## TOOL

### Pass thru crimp and Termination



Image: Diagram illustrating the TIA 568A and TIA 568B color coding systems for RJ45 Ethernet cables.

4. **Trim Wires:** Once arranged, trim the ends of the wires straight and evenly, ensuring they are all the same length.
5. **Insert into Connector:** Carefully insert the arranged wires into the RJ45 pass-through connector. Push the wires all the way through the front of the connector until the cable jacket is seated firmly inside the connector body. Verify the wire order through the clear connector body.
6. **Crimp the Connector:** Place the connector into a compatible pass-through crimping tool. Squeeze the handles firmly to crimp the connector. The tool will cut off the excess wires protruding from the front and secure the contacts.
7. **Test the Cable:** Use an Ethernet cable tester to verify continuity and proper wiring of the newly terminated cable.



1. Prepare the connectors crimper, and the wires.



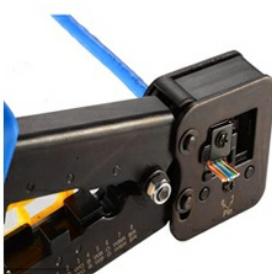
2. Put the wire into stripper tool and cut the skin.



3. Separate wires and arrange based on T568A/B.



4. Insert wires into the connectors.



5. Put the wire plug into crimper, squeeze down crimp.



6. Ensure all pins are set, use tester tool to check .

Image: Detailed view of an RJ45 Cat6 Pass-Through Connector, indicating a maximum wire diameter of 1.10mm for compatibility.

## Operating Instructions

Once your Ethernet cable is properly terminated with the PETECHTOOL RJ45 connector, it is ready for

use. Simply plug one end into your network device (e.g., computer, router, switch) and the other end into a compatible network port or device. Ensure a firm connection for optimal performance.

## Maintenance

These connectors require minimal maintenance. To ensure longevity and reliable performance:

- Keep connectors clean and free from dust and debris.
- Avoid exposing connectors to excessive moisture or extreme temperatures.
- Do not forcefully bend the cable near the connector, as this can damage the internal wiring or the connector itself.

## Troubleshooting

Problem	Possible Cause	Solution
No network connection	Incorrect wiring order, poor crimp, faulty cable.	Verify wire order with T568B/A standard. Re-crimp the connector. Test with a cable tester. Replace cable if necessary.
Slow network speed	Damaged wires, improper termination, cable length exceeding limits.	Inspect cable for damage. Ensure a secure and proper crimp. Use appropriate cable lengths for desired speeds.
Connector does not fit into port	Connector misalignment or damage.	Ensure the connector is aligned correctly. Do not force. Replace if damaged.

## Specifications

**Brand:**

PETECHTOOL

**Model:**

8541697960

**Connector Type:**

RJ45

**Cable Type:**

Ethernet

**Ethernet Cable Category:**

Cat 6 (also compatible with Cat 5e)

**Number of Pins:**

8 (8P8C)

**Gauge Compatibility:**

24 AWG (Not suitable for 23 AWG)

**Special Feature:**

Gold Plated Contacts, Pass-Through Design

**Unit Count:**

20 Count

**Maximum Voltage:**

12 Volts (DC)

**Specification Met:**

FCC, UL

## Warranty Information

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PETECHTOOL products are manufactured to high-quality standards. For specific warranty details, please refer to the product packaging or contact PETECHTOOL customer support directly. Keep your proof of purchase for any warranty claims.

## Support

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If you encounter any issues or have questions regarding your PETECHTOOL RJ45 CAT6 Pass-Through Ethernet Connectors, please visit the official PETECHTOOL website or contact their customer service for assistance.

Official Website: [www.petechtool.com](http://www.petechtool.com)