

## TRU Components 1515263

# TRU Components RJ45 Cat 6 Connector 1515263 Instruction Manual

Model: 1515263 | Brand: TRU Components

## 1. INTRODUCTION

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This instruction manual provides essential information for the proper installation, operation, and maintenance of your TRU Components RJ45 Cat 6 Connector, model 1515263. This connector is designed for terminating Cat 6 Ethernet cables, ensuring reliable high-speed network connections. Please read this manual thoroughly before proceeding with installation.

## 2. SAFETY INFORMATION

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- Always handle electronic components with care to prevent damage.
- Ensure all tools used for installation (e.g., crimping tool, wire strippers) are in good working condition.
- Avoid exposing the connector to excessive force, moisture, or extreme temperatures.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

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Verify that all items are present and undamaged upon opening the package:

- 1 x TRU Components RJ45 Cat 6 Connector (Model 1515263)

## 4. SETUP AND INSTALLATION

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This section details the steps for properly terminating an Ethernet cable with the TRU Components RJ45 Cat 6 Connector.

### Required Tools:

- RJ45 Crimping Tool (compatible with Cat 6 connectors)
- Wire Strippers/Cutters

## Installation Steps:

1. **Prepare the Cable:** Carefully strip approximately 2-3 cm (0.8-1.2 inches) of the outer jacket from the end of your Cat 6 Ethernet cable. Be careful not to cut or nick the inner insulated 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 either the T568A or T568B wiring standard. Ensure the wires are flat and parallel. The connector includes a wire guide to assist with this process. Insert the straightened wires into the appropriate channels of the wire guide.



Figure 1: TRU Components RJ45 Cat 6 Connector showing the wire guide for proper wire arrangement.

4. **Trim Wires:** Once the wires are correctly arranged in the guide, use wire cutters to trim the ends of the wires flush with the edge of the guide. This ensures all wires are the correct length for proper contact.
5. **Insert into Connector:** Carefully insert the wire guide with the trimmed wires into the main body of the RJ45 connector. Push firmly until the wires are fully seated and the guide is flush with the connector body.



Figure 2: Assembled TRU Components RJ45 Cat 6 Connector, ready for crimping.

6. **Crimp the Connector:** Insert the assembled connector into an RJ45 crimping tool. Squeeze the handles of the crimping tool firmly until you hear a click, indicating that the pins have properly seated and secured the wires.
7. **Verify Connection:** After crimping, visually inspect the connector to ensure all wires are properly seated and the pins have made good contact. Use a cable tester to verify continuity and correct wiring if available.

## 5. OPERATING THE CONNECTOR

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Once properly terminated, the TRU Components RJ45 Cat 6 Connector functions as a standard network plug. Insert the connector into any compatible RJ45 port on network devices such as computers, routers, switches, or patch panels. The connector facilitates data transmission over the Ethernet cable, enabling network communication.

## 6. MAINTENANCE

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The TRU Components RJ45 Cat 6 Connector requires minimal maintenance:

- Keep the connector clean and free from dust and debris. Use a soft, dry cloth if cleaning is necessary.
- Avoid bending or twisting the cable excessively near the connector to prevent internal wire damage.
- Do not expose the connector to harsh chemicals or solvents.

## 7. TROUBLESHOOTING

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If you experience issues with your network connection after installing the connector, consider the following:

- **No Network Connection:**

- Verify that the cable is properly crimped and all 8 wires are making contact.
  - Check the wiring standard (T568A or T568B) to ensure it matches the other end of the cable or network requirements.
  - Ensure the connector is fully inserted into the network port.
- **Intermittent Connection:**
    - Re-crimp the connector if the initial crimp was not firm enough.
    - Inspect for any visible damage to the connector or cable.
- **Slow Network Speed:**
    - Ensure you are using Cat 6 cable throughout your network for optimal performance.
    - Verify that all network devices (router, switch, network card) support Cat 6 speeds.

## 8. SPECIFICATIONS

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<b>Brand</b>	TRU Components
<b>Model Number</b>	1515263
<b>Type</b>	RJ45 Connector
<b>Category</b>	Cat 6
<b>Number of Poles</b>	8
<b>Color</b>	Grey
<b>Package Quantity</b>	1 piece
<b>Product Dimensions (approx.)</b>	48.7 x 37.1 x 19.4 cm (packaging); 17 kg (packaging weight)

## 9. WARRANTY INFORMATION

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TRU Components products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact TRU Components customer support directly. Keep your proof of purchase for warranty claims.

## 10. CUSTOMER SUPPORT

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For technical assistance, product inquiries, or support, please visit the official TRU Components website or contact their customer service department. Contact information can typically be found on the product packaging or the company's official website.

