

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Cable Matters](#) /

› [Cable Matters 100-Pack Cat 6A Shielded Pass Through RJ45 Connectors Instruction Manual](#)

Cable Matters 180102x100

Cable Matters 100-Pack Cat 6A Shielded Pass Through RJ45 Connectors Instruction Manual

Model: 180102x100 | Brand: Cable Matters

1. PRODUCT OVERVIEW

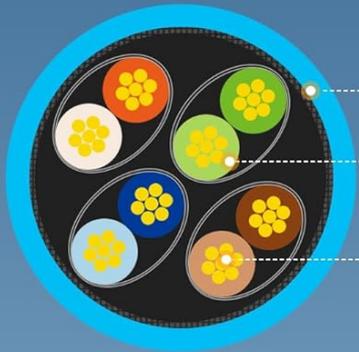
The Cable Matters 100-Pack Cat 6A Shielded Pass Through RJ45 Connectors are designed for terminating Cat 6A shielded twisted pair cables. These connectors facilitate efficient and reliable network connections for various applications.

- **Custom Cat6A Ethernet Cable Termination:** Designed for Cat 6A shielded twisted pair cables, supporting 23–24 AWG solid or stranded wire with insulated conductor sizes from 1.09 to 1.19mm and cable outer diameters up to 5.8mm.
- **Efficient Pass-Through Design:** Features a crimp-style termination with three-point staggered contacts. Wires feed through the connector for streamlined installation and reduced termination time.
- **High-Performance Ethernet Connectors:** Rated for Category 6A performance, supporting 10Gbps / 10GBASE-T Ethernet networks. Backward compatible with Cat6 and Cat5e cables. Includes 50µ gold-plated 8P8C contacts for superior signal transmission and durability.
- **Bulk Value:** A 100-pack suitable for large wiring projects or multiple small installations. Ideal for creating custom-length patch cables for routers, patch panels, switches, and workstations. Compatible with Cable Matters RJ45 Strain Relief Boots (sold separately).
- **Secure Storage:** Supplied in a reusable storage jar with a screw-on lid and integrated handle for organization and protection.

2. COMPATIBILITY AND SPECIFICATIONS

These connectors are specifically designed for Cat 6A cables but are also compatible with Cat6 and Cat5e cables when used appropriately. Ensure your cable's conductor insulation range and outer diameter match the connector's specifications for optimal performance.

Choose the Right Connector for Your Cable



Outside diameter (Calibre)

Conductor insulation range (Calibre)

Conductor wire gauge

| Model Number | Type | Category Rating | Conductor insulation range | Conductor wire gauge | Outside diameter |
|--------------|--------------|-----------------|----------------------------|----------------------|------------------|
| 180097 | Pass Through | Cat6 | 0.97~1.07mm | 23~24AWG | 6.1mm |
| 180004 | Regular | Cat6 | 0.89~0.99mm | 23~28AWG | 5.7mm |
| 180029 | Regular | Cat6A | 1.24~1.34mm | 21~23AWG | 7.15mm |
| 180102 | Pass Through | Cat6A | 1.09~1.19mm | 23~24AWG | 5.8mm |
| 180121 | Pass Through | Cat8 | 1.24~1.34mm | 23~24AWG | 8mm |
| 180129 | Regular | Cat8 | 1.35~1.45mm | 23~24AWG | 8mm |

Image: Compatibility chart for Cable Matters RJ45 connectors. This chart helps identify the correct connector model based on cable type (Cat6, Cat6A, Cat8), conductor insulation range, conductor wire gauge, and overall cable outside diameter. Model 180102 (this product) is highlighted for Cat6A, supporting 1.09-1.19mm conductor insulation range, 23-24AWG wire gauge, and 5.8mm outside diameter.

Technical Specifications:

| Feature | Detail |
|-------------------------|---|
| Brand | Cable Matters |
| Connector Type | RJ45 |
| Cable Type | Ethernet |
| Ethernet Cable Category | Cat 6a |
| Data Transfer Rate | 1000 Megabits Per Second (10Gbps for Cat6A) |
| Number of Pins | 8 |

| | |
|----------------------|--|
| Frequency | 10 GHz |
| Gauge | 23-24 AWG (for solid or stranded wire) |
| Max. Wire OD | 1.19mm (insulated conductor) |
| Cable Outer Diameter | Up to 5.8mm |
| Gold Plating | 50μ |
| Outer Material | Plastic |
| Color | Transparent |
| Model Number | 180102x100 |
| UPC | 818707028698 |

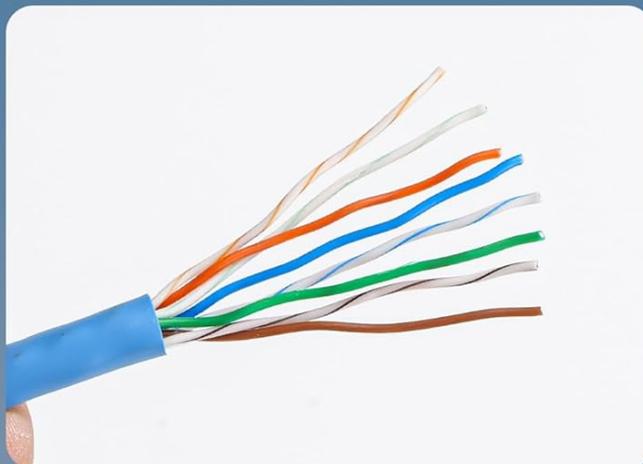
3. INSTALLATION GUIDE

Follow these steps to properly terminate your Cat 6A shielded cable with the Cable Matters Pass-Through RJ45 Connectors. A pass-through crimping tool is recommended for best results.

Effortless Installation: Quick and Secure Crimping



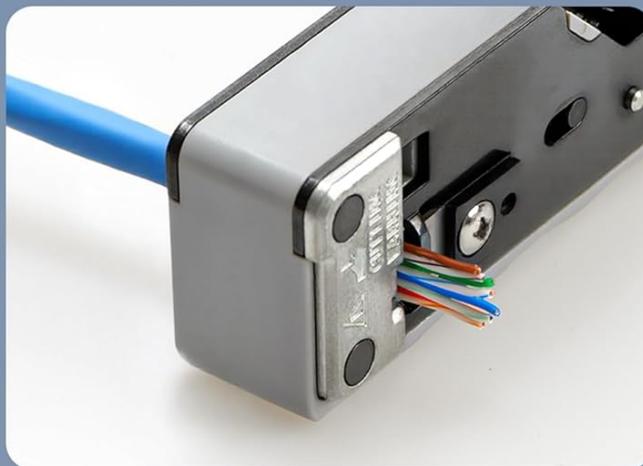
1. Cut and strip the cable



2. Arrange the wires



3. Insert the wires



4. Crimp the plug

Image: Step-by-step guide for crimping an RJ45 connector. This visual guide illustrates the four main stages: preparing the cable by stripping its jacket, arranging the individual wires according to the T568A or T568B standard, inserting the wires through the pass-through connector, and finally crimping the connector with a specialized tool.

- 1. Prepare the Cable:** Using a suitable cable stripper, carefully remove approximately 1 inch (2.5 cm) of the outer jacket from the end of your Cat 6A cable. Be careful not to nick the inner wire insulation.
- 2. Arrange the Wires:** Untwist the wire pairs and straighten them. Arrange the wires according to the T568A or T568B wiring standard. For shielded cables, ensure the drain wire is properly managed.
- 3. Insert Wires into Connector:** Carefully feed the straightened and arranged wires through the front of the pass-through RJ45 connector. Ensure each wire passes through its designated channel and extends slightly beyond the front of the connector. The pass-through design allows for visual verification of correct wire order.
- 4. Crimp the Connector:** Insert the connector with the wires fully extended into a pass-through RJ45 crimping tool. Squeeze the handles firmly to crimp the connector. The tool will simultaneously cut off the excess wires extending from the front and secure the contacts.
- 5. Verify Connection:** Use an Ethernet cable tester to verify the continuity and correct wiring of the terminated cable.

Recommended Tools:

- **Pass-Through RJ45 Crimping Tool:** Essential for proper termination with pass-through connectors.

- **Cable Stripper:** For safely removing the cable's outer jacket.
- **Ethernet Cable Tester:** To confirm correct wiring and functionality.
- **RJ45 Strain Relief Boots (Optional):** Compatible with Cable Matters RJ45 Strain Relief Boots (ASIN: B0049QNV3E) to prevent damage and enhance cable integrity.

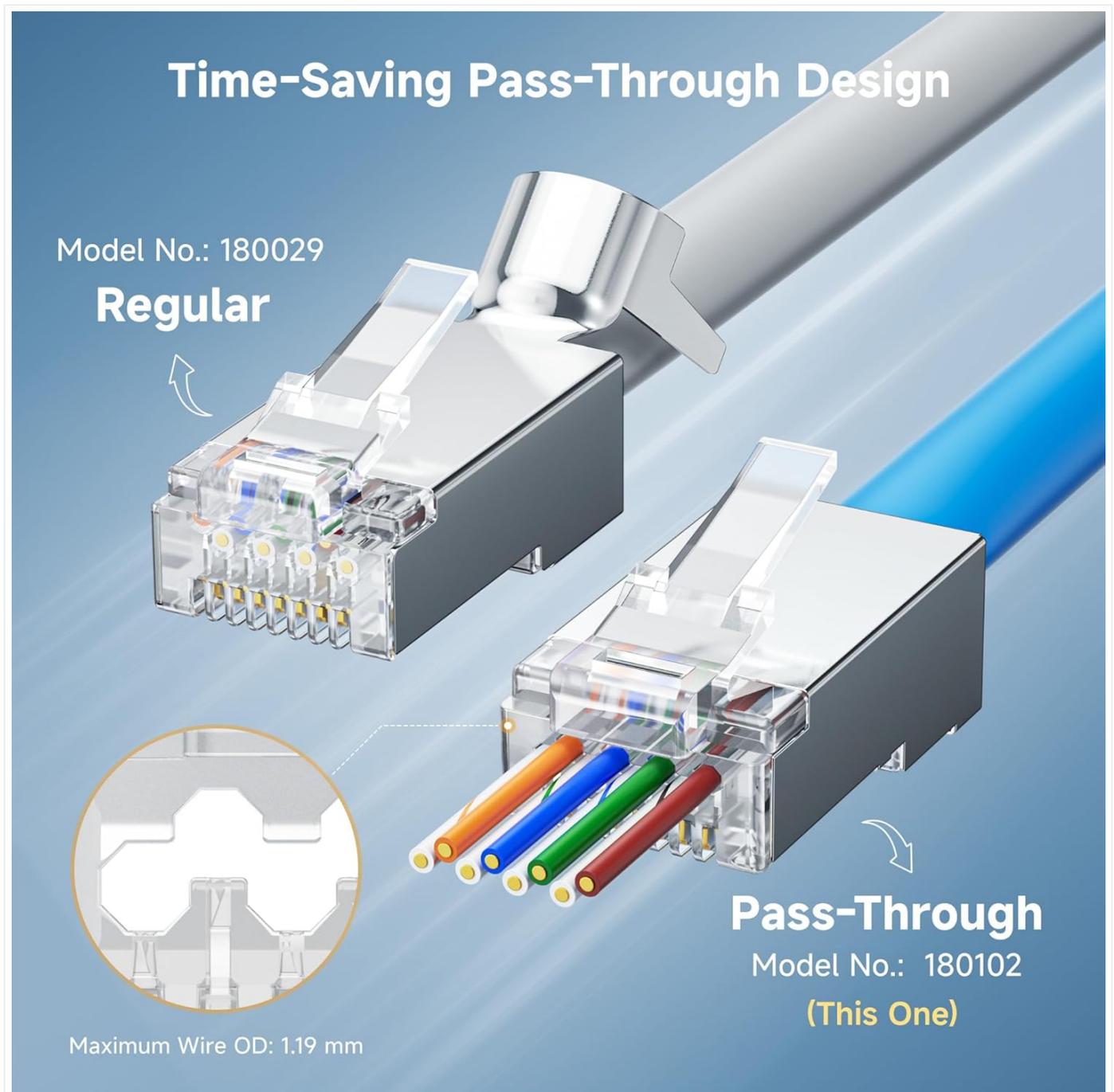
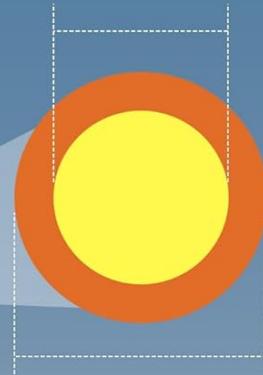


Image: Time-Saving Pass-Through Design. This image compares a regular RJ45 connector (Model No.: 180029) with a Pass-Through connector (Model No.: 180102, this product). The pass-through design allows wires to extend completely through the connector, simplifying wire arrangement and trimming for easier termination.

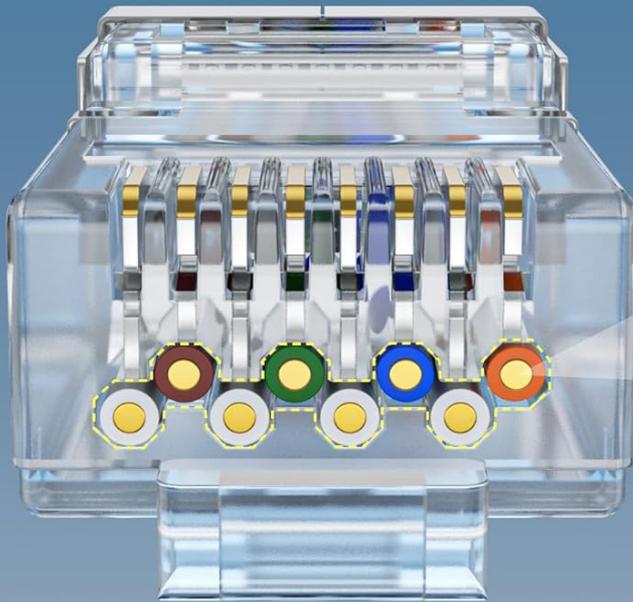
Perfect Fit for Your Cables

23~24 AWG
solid or stranded UTP

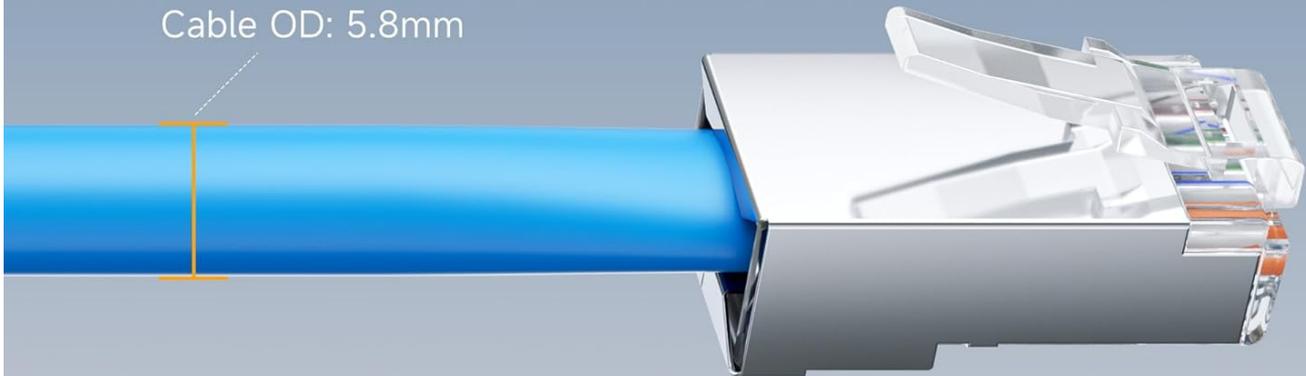


Conductor insulation range:

1.09~1.19mm



Cable OD: 5.8mm



Note: Check if your **cable's conductor insulation range** is compatible before purchase.

Image: Perfect Fit for Your Cables. This diagram shows the internal structure of the RJ45 connector and the cable specifications it supports. It indicates compatibility with 23-24 AWG solid or stranded UTP cables, a conductor insulation range of 1.09-1.19mm, and a cable outer diameter of 5.8mm. Users should verify their cable's conductor insulation range before purchase.

Metal Shielding for Reliable Performance

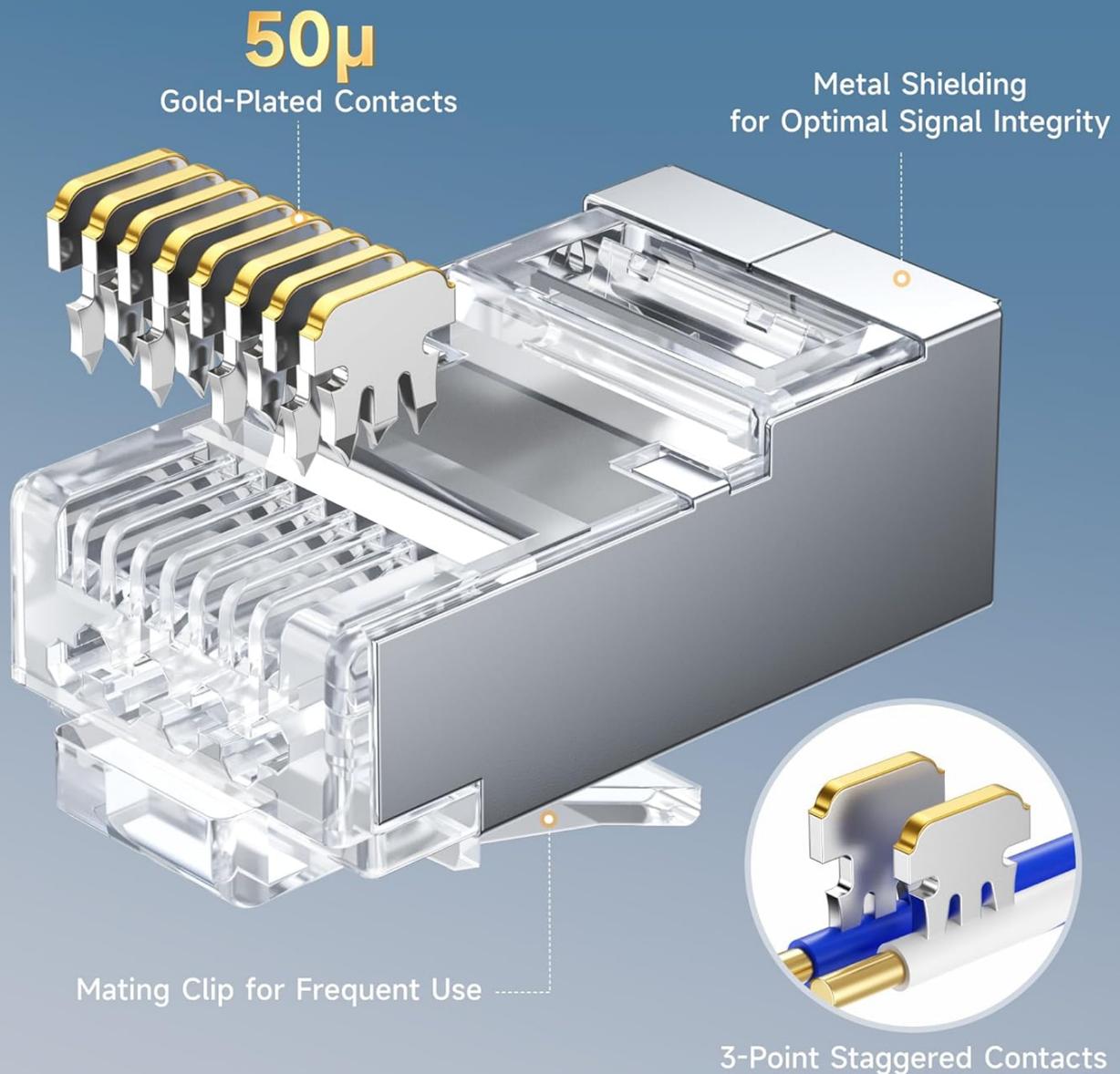


Image: Metal Shielding for Reliable Performance. This image highlights the key features of the connector designed for durability and signal integrity. It shows the 50µ gold-plated contacts, the metal shielding for optimal signal integrity, and the 3-point staggered contacts for a secure connection.

Installation Video:



Video: Cable Matters RJ45 Connectors. This video provides a visual demonstration of the features and benefits of Cable Matters RJ45 connectors, including their design and application.

4. OPERATION

Once properly terminated and verified, the RJ45 connector functions as a standard Ethernet plug. Insert the terminated cable into any compatible RJ45 port on devices such as routers, switches, computers, or patch panels to establish a network connection. Ensure the connector clicks securely into place.

5. MAINTENANCE AND STORAGE

These RJ45 connectors require minimal maintenance.

- **Storage:** Store unused connectors in the provided reusable storage jar to keep them organized and protected from dust and damage. Keep the lid screwed on tightly.
- **Handling:** Avoid bending or stressing the gold-plated contacts. Handle connectors by the plastic body.
- **Cleaning:** If necessary, gently clean the contacts with a dry, lint-free cloth. Avoid using liquids or abrasive materials.



Image: Cost-Effective 100-Pack in Storage Jar. This image displays the 100-pack of RJ45 pass-through connectors contained within a clear plastic jar with a blue screw-on lid and handle, emphasizing convenient storage and bulk quantity.

6. TROUBLESHOOTING

If you encounter issues during or after termination, consider the following:

- **Wires Not Fitting:** Ensure your cable's conductor insulation range (1.09-1.19mm) and overall outer diameter (up to 5.8mm) are compatible with these Cat 6A connectors. If the wires are too thick, they may not pass through or crimp correctly.
- **Poor Connection/Slow Speeds:**
 - **Verify Wiring Order:** Double-check that the wires are arranged in the correct T568A or T568B standard before crimping.
 - **Full Insertion:** Ensure wires are fully inserted through the connector and make proper contact with the pins when crimped.

- **Crimping Tool:** Use a dedicated pass-through crimping tool to ensure all pins are properly seated and excess wires are cleanly cut. Improper crimping can lead to intermittent connections or reduced performance.
- **Cable Tester:** Always use an Ethernet cable tester to confirm continuity and identify any miswires or open circuits after termination.
- **Connector Not Securing:** Ensure the crimping tool is fully engaged and applies sufficient pressure to secure the connector to the cable jacket and seat the pins.
- **Compatibility with Cat6/Cat5e:** While backward compatible, these connectors are optimized for Cat 6A. Ensure your cable's physical dimensions (wire gauge, insulation diameter) are within the acceptable range for the connector.

7. WARRANTY AND SUPPORT

For information regarding warranty coverage and customer support, please refer to the official Cable Matters website or contact their customer service directly.

Cable Matters is committed to providing quality products and exceptional customer experience.

