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› deleyCON CAT 7 RJ45 Tool-Free Network Plug User Manual

deleyCON MK6002

deleyCON CAT 7 RJ45 Tool-Free Network Plug User Manual

Model: MK6002

PRODUCT OVERVIEW

The deleyCON CAT 7 LAN RJ45 network plug is designed for quick and tool-free assembly of custom patch cables from raw network cables. It supports high-speed data transmission up to 10 Gbit/s and a bandwidth of 600 MHz. The shielded metal plugs ensure excellent transmission quality and universal compatibility with various cable types.



Image: Two deleyCON CAT 7 RJ45 tool-free network plugs, showcasing their design and readiness for installation.

PACKAGE CONTENTS

- deleyCON CAT 7 RJ45 Tool-Free Network Plug(s) (Quantity as purchased)
- Instructional diagram (integrated into this manual)



Image: An exploded view of the deleyCON CAT 7 RJ45 connector, showing its individual components including the main body, LSA block, screw cap, and protective cover.

SETUP AND INSTALLATION

This section guides you through the tool-free installation process of the deleyCON CAT 7 RJ45 network plug onto a raw network cable. Ensure you have a raw network cable (solid conductor / AWG 22-25) and a wire stripper/cutter.

1. Prepare the Cable:

Carefully strip the outer jacket of your raw network cable to expose the twisted pairs and the cable's shielding. Ensure not to damage the inner wires or their insulation.

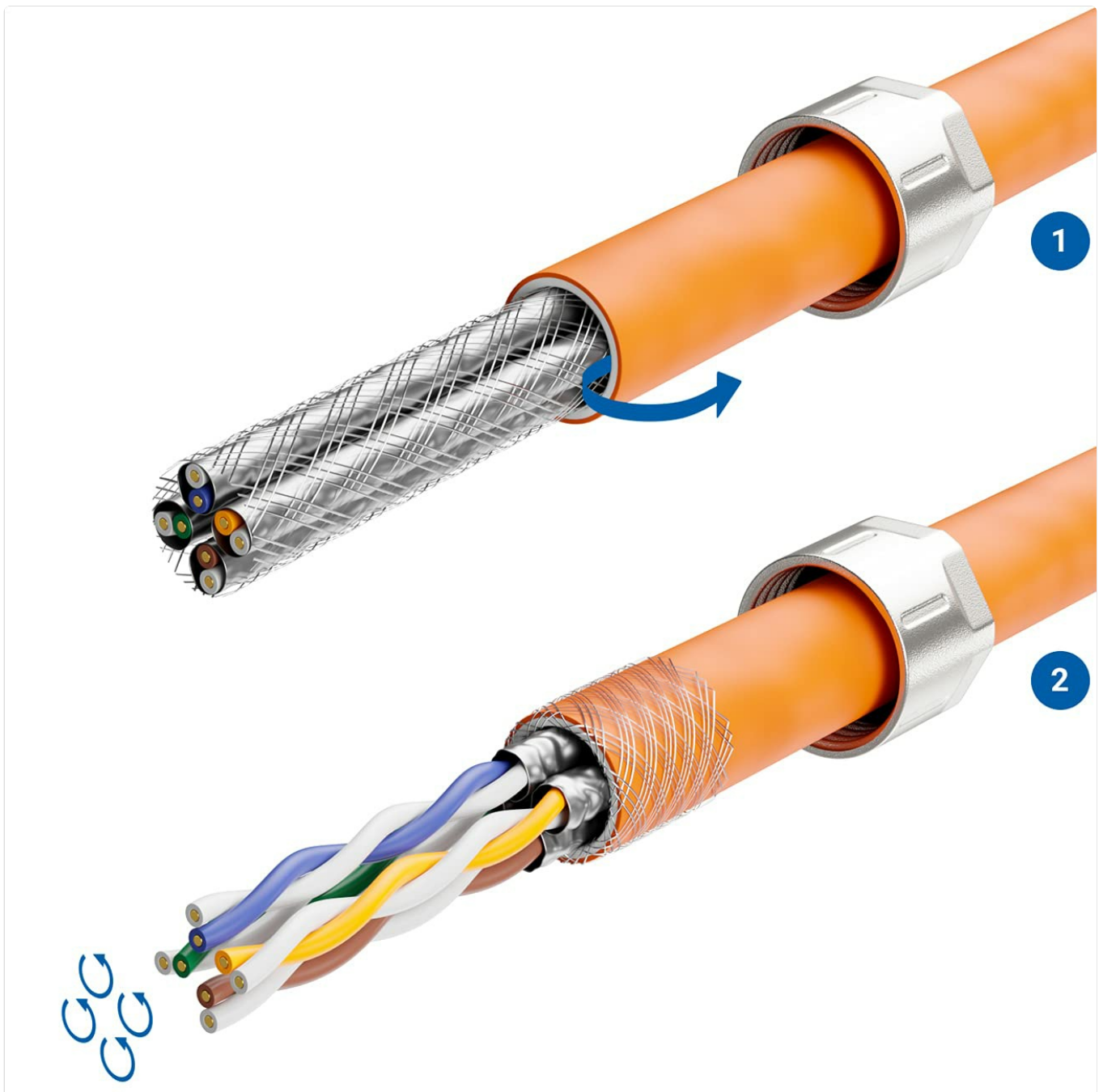


Image: Step 1 of cable preparation, showing the outer jacket being stripped and the braided shield exposed. The screw cap is already on the cable.

2. Arrange and Insert Wires into LSA Block:

Untwist the wire pairs and arrange them according to the TIA/EIA T568A or TIA/EIA T568B color code standard on the provided LSA (insulation displacement connector) block. The LSA block is designed to automatically press the wires into place when the connector is closed. Ensure the cable's shielding is properly managed, often by folding it back or using the included foil tape for full shielding contact.

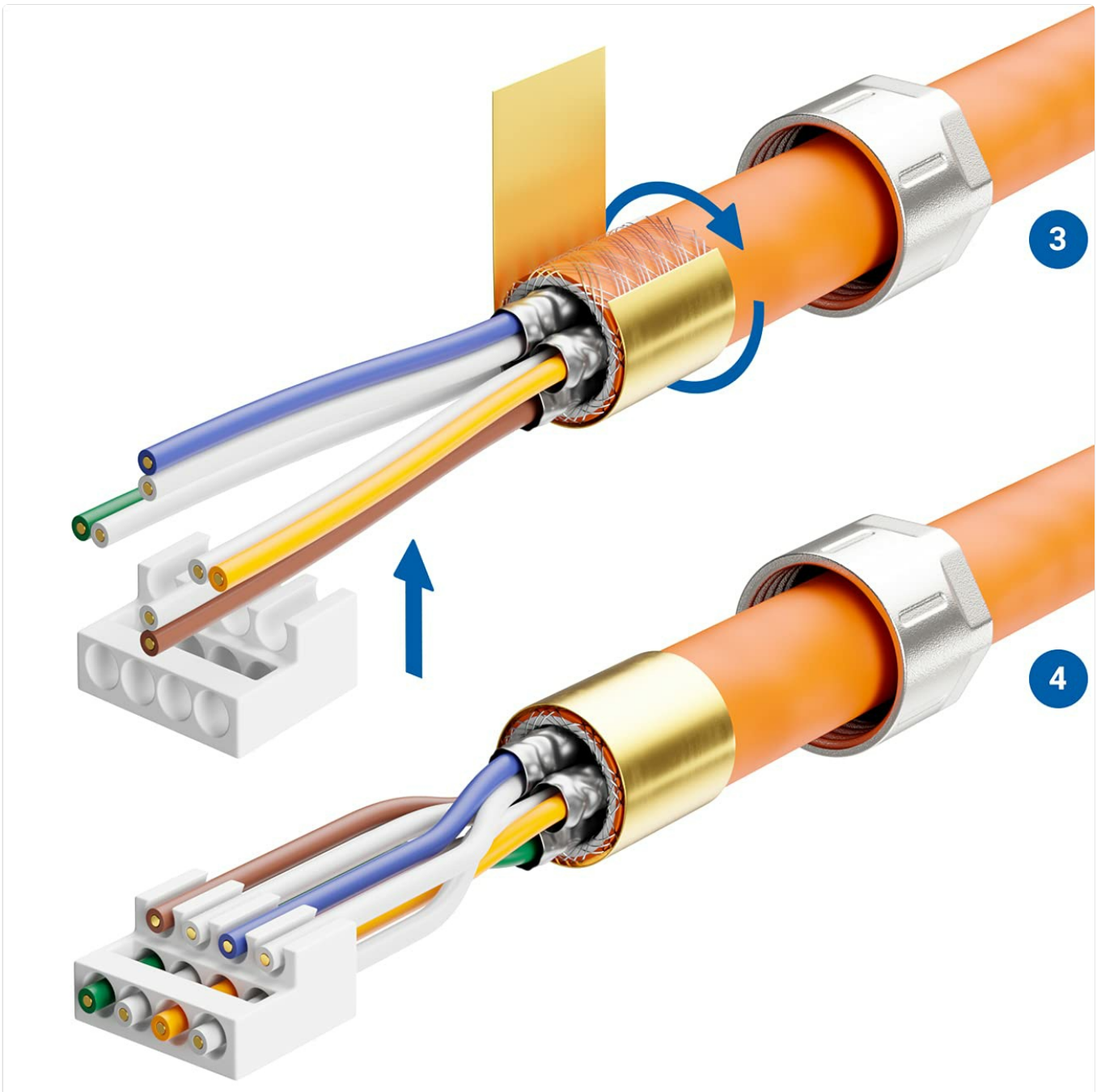


Image: Step 2 of the installation process, illustrating the untwisting of wire pairs, the application of shielding foil, and the insertion of individual wires into the LSA block according to the color coding.

3. Close the Connector and Secure:

Align the LSA block with the main body of the RJ45 plug. Close the plug firmly until it snaps shut. This action automatically presses the wires into the LSA terminals, establishing the electrical connection. Finally, screw the cap onto the connector to provide strain relief and secure the cable firmly in place.

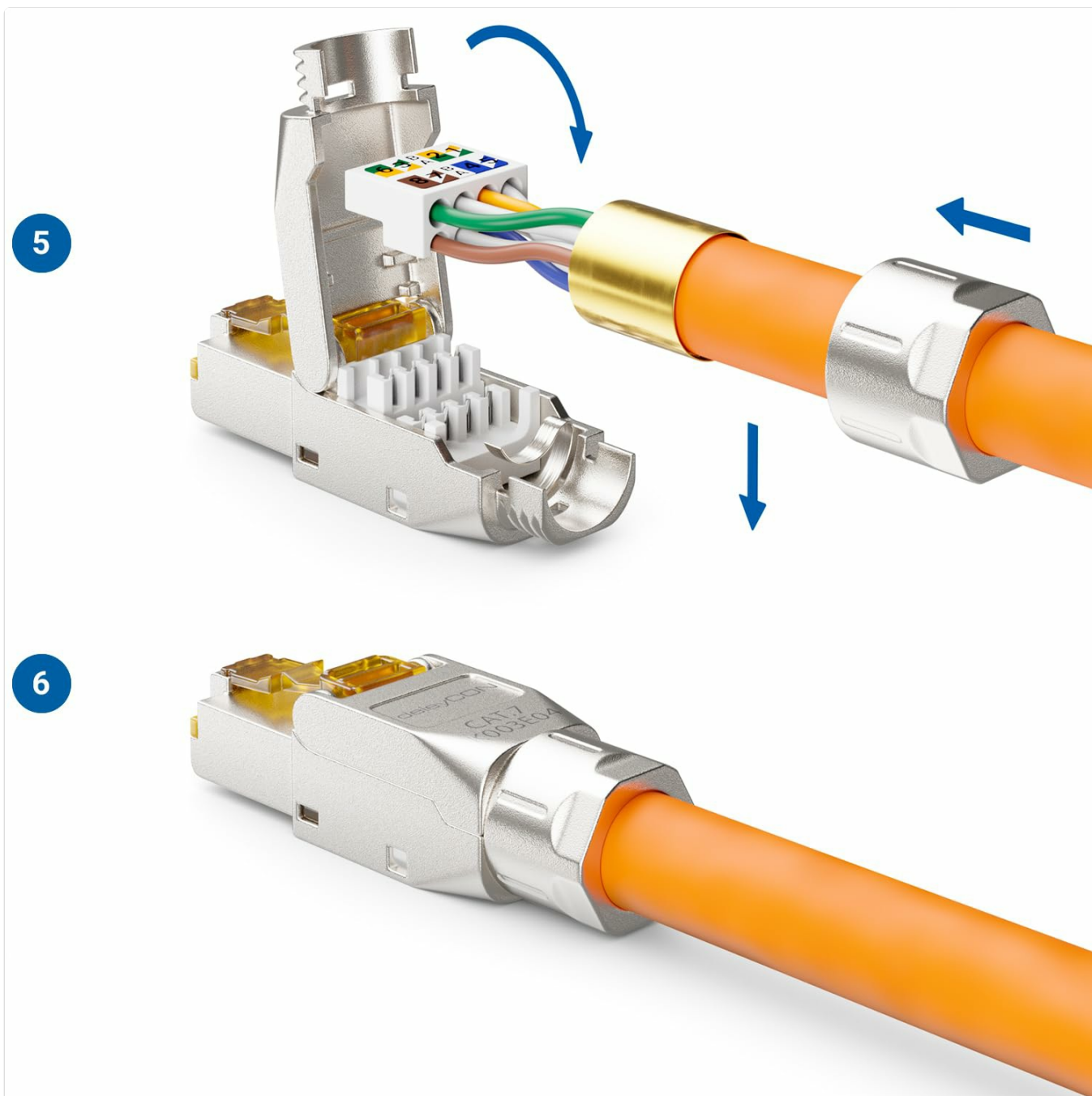


Image: Step 3 of the installation, showing the connector being closed over the LSA block and the cable, followed by the screw cap being tightened for strain relief and secure fitting.

OPERATING INSTRUCTIONS

Once assembled, the deleyCON CAT 7 RJ45 network plug functions as a standard Ethernet connector. It is ready to be plugged into any compatible RJ45 port on network devices such as routers, switches, patch panels, PCs, laptops, smart TVs, gaming consoles, and more.

- **Compatibility:** Compatible with CAT5, CAT6, CAT6a, CAT7, CAT7a, and CAT8 raw installation cables (solid conductor).
- **Performance:** Supports data transfer rates up to 10 Gbit/s and bandwidths up to 600 MHz, suitable for high-speed network applications.
- **Shielding:** The high-quality shielded metal plug ensures minimal interference and reliable data transmission.

MAINTENANCE

The deleyCON CAT 7 RJ45 network plug requires minimal maintenance due to its robust design and tool-free connection. Follow these guidelines to ensure optimal performance and longevity:

- **Keep Clean:** Ensure the RJ45 contacts are free from dust and debris. Use a soft, dry cloth if cleaning is necessary.
- **Secure Connection:** Periodically check that the screw cap is tightened to maintain proper strain relief and cable fixation.
- **Avoid Stress:** Do not bend the cable sharply at the connector point or apply excessive force when plugging/unplugging.

TROUBLESHOOTING

If you encounter issues with your deleyCON CAT 7 RJ45 network plug, consider the following troubleshooting steps:

- **No Network Connection:**
 - **Verify Wiring:** Double-check that the wires are correctly arranged and seated in the LSA block according to the TIA/EIA T568A or T568B standard. Incorrect wiring is a common cause of connection issues.
 - **Check LSA Connection:** Ensure the connector was closed firmly, allowing the LSA terminals to properly cut into the wire insulation and make contact.
 - **Cable Integrity:** Inspect the raw network cable for any damage, kinks, or breaks that might prevent signal transmission.
 - **Device Compatibility:** Ensure the connected network devices (e.g., router, PC) are functioning correctly and their RJ45 ports are active.
- **Slow Network Speed or Intermittent Connection:**
 - **Cable Category:** Confirm that your raw network cable is indeed CAT7 or higher to support the desired speeds. Using a lower category cable will limit performance.
 - **Shielding:** Ensure the cable's shielding and the plug's metal housing are properly integrated to prevent electromagnetic interference (EMI).
 - **Cable Length:** Very long cable runs can sometimes lead to signal degradation. Ensure your cable length is within standard specifications for CAT7.

SPECIFICATIONS

Attribute	Detail
Model Number	MK6002
Brand	deleyCON
Dimensions (L x W x H)	4.25 x 1.35 x 1.25 cm
Weight	30.98 grams
Connector Type	8-pin Insulation Displacement Connector (LSA), RJ45
Compatible Cable Type	Ethernet (Solid conductor / AWG 22-25)
Ethernet Cable Category	Category 7 (Compatible with CAT5, CAT6, CAT6a, CAT7, CAT7a, CAT8)
Data Transfer Rate	Up to 10 Gigabits per second

Bandwidth	Up to 600 MHz
Special Features	Screw cap for strain relief, Tool-free assembly (Snap-In technology), Data transfer, Metal plug
Recommended Use	Installation cable termination
Color	Silver
Connector Gender	Female to Male

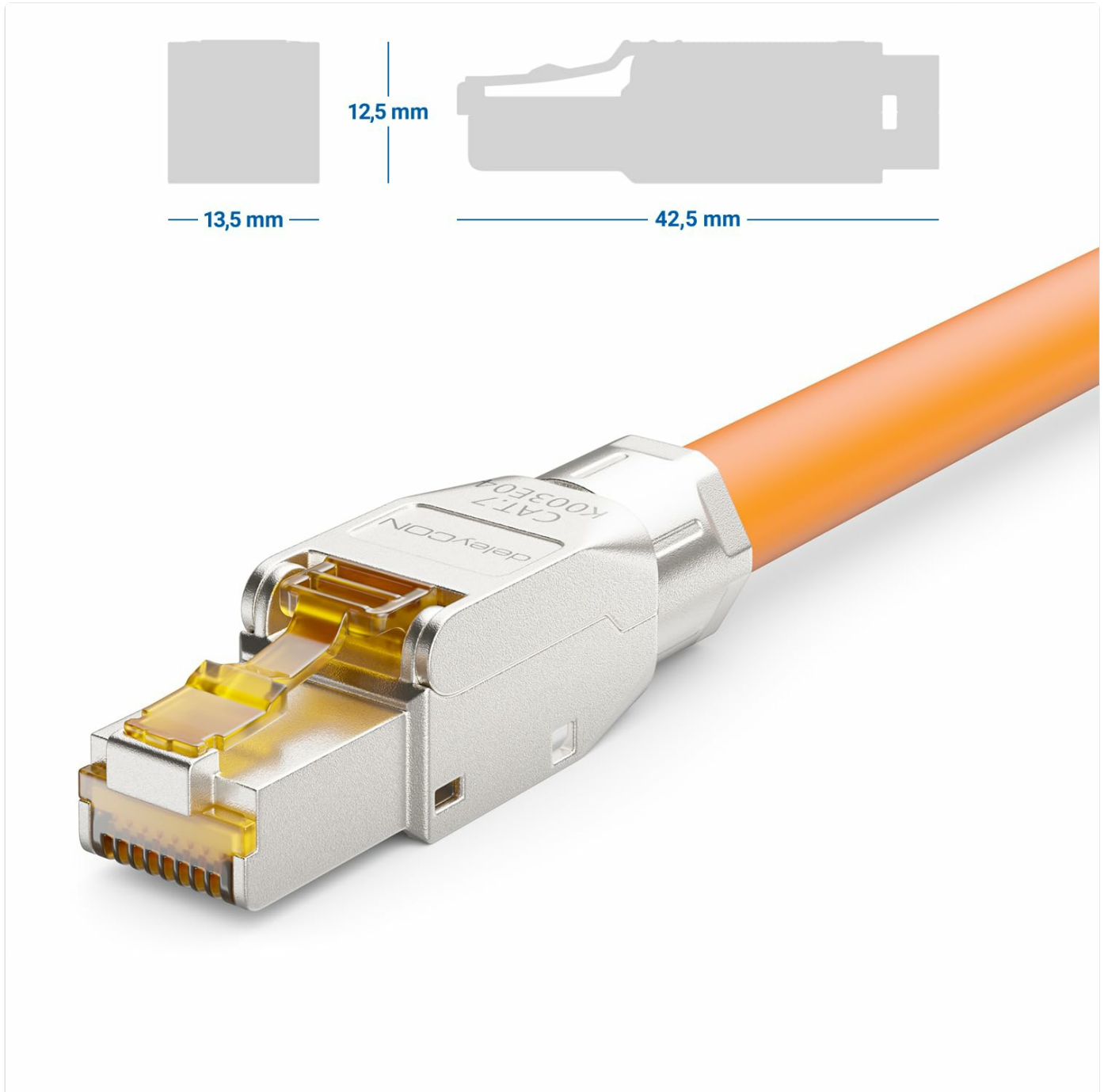


Image: Diagram illustrating the dimensions of the deleyCON CAT 7 RJ45 connector, showing its length, width, and height.

SUPPORT

For further assistance or inquiries regarding your deleyCON product, please contact deleyCON customer support. You can typically find contact information on the official deleyCON website or through your point of purchase.

General inquiries can be sent to: info@deleycon.de

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