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› METZ CONNECT 130E405042-E Wire Connector User Manual

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Model: 130E405042-E

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the METZ CONNECT 130E405042-E field-mountable RJ45 plug. This connector is designed for robust and reliable Ethernet connections, supporting high-speed data transfer and Power over Ethernet applications.



Figure 1: METZ CONNECT 130E405042-E Wire Connector, a shielded RJ45 plug with a variable cable outlet.

Key Features:

- Manufactured in Germany, ensuring high quality and precision.
- Field-mountable RJ45 plug, compliant with Cat.6A/Class EA standards.
- Fully shielded design for enhanced signal integrity and multi-portability.
- Easy assembly without the need for specialized tools.
- Reconnectable design for flexibility and reusability.
- Variable cable outlet, freely selectable up to 360 degrees.
- Suitable for 10 Gbit Ethernet (IEEE 802.3an) and Power over Ethernet (PoE, PoE Plus, UPOE).
- Industrial-grade zinc die-cast housing for durability.
- IP20 protection rating.

2. SETUP AND INSTALLATION

The METZ CONNECT 130E405042-E connector is designed for straightforward installation without requiring specialized crimping tools. Follow these steps for proper assembly:

1. **Prepare the Cable:** Strip the outer jacket of your Ethernet cable to the recommended length. Ensure the individual wire pairs are untwisted and straightened appropriately.
2. **Insert Wires:** Carefully insert the prepared wires into the designated slots within the connector according to the T568A or T568B wiring standard. The connector supports patch cables from AWG 27/7 to AWG 22/7 and installation cables from AWG 26/1 to AWG 22/1.
3. **Secure the Connection:** Close the connector housing. The design allows for tool-free termination, securing the wires firmly in place.
4. **Adjust Cable Outlet:** The cable outlet can be freely adjusted up to 360 degrees after assembly, allowing for flexible cable routing in various installation scenarios. This feature is particularly useful in tight spaces or when specific cable directions are required.

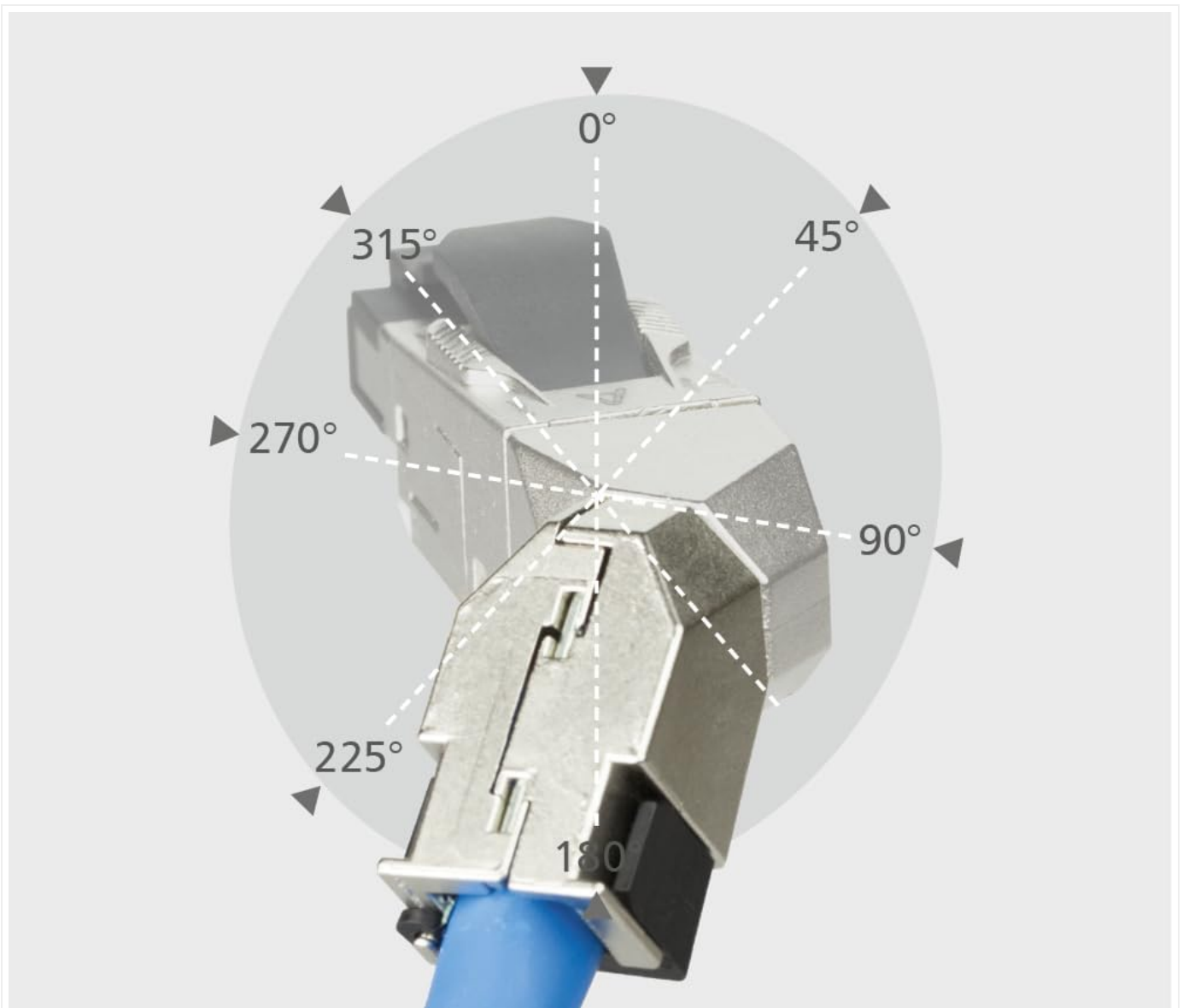


Figure 2: Illustration of the 360-degree variable cable outlet, demonstrating flexibility in cable routing.

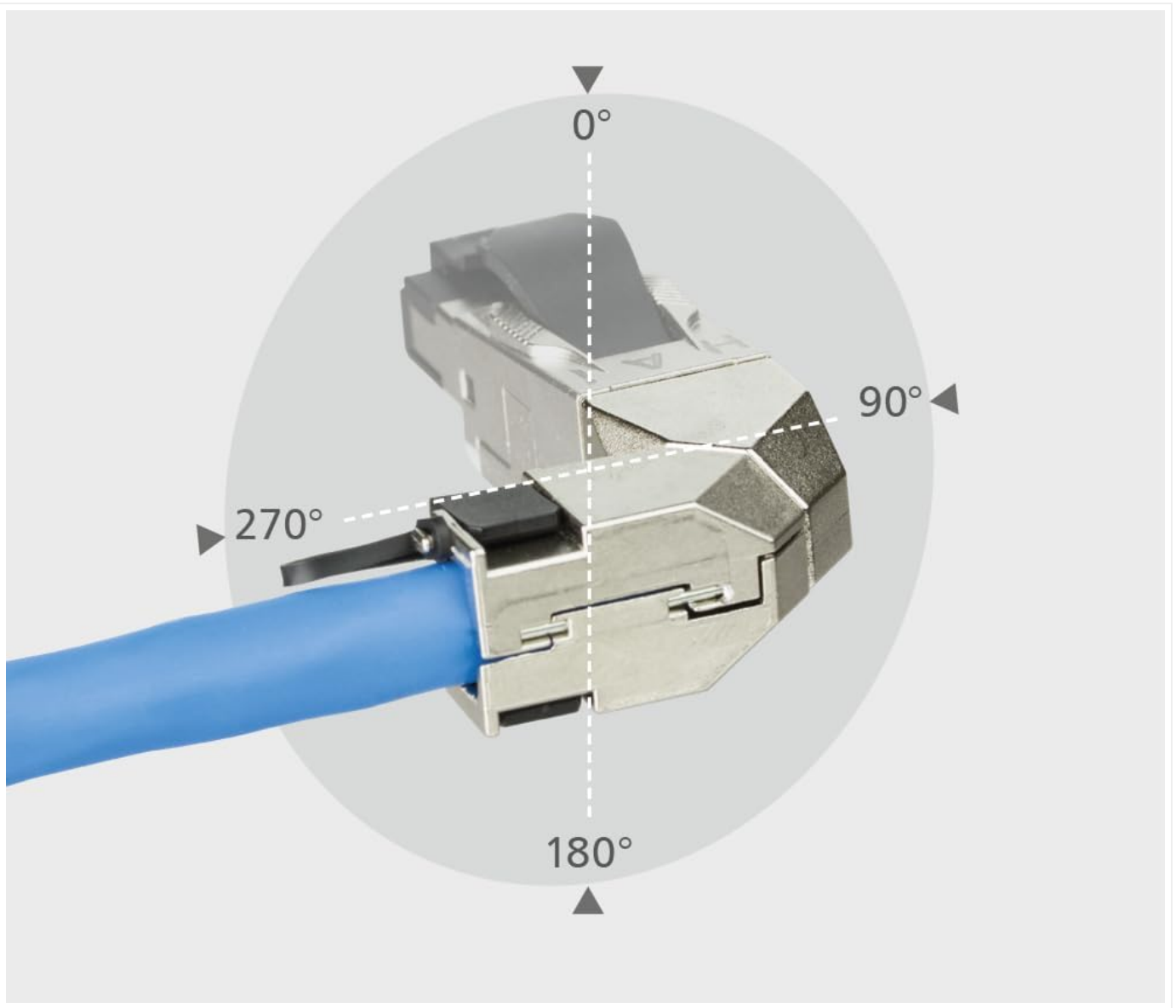


Figure 3: Another view of the connector's adjustable cable outlet, highlighting its adaptability for different installation needs.

The connector is suitable for cable jacket diameters ranging from 5.5 mm to 10.5 mm, accommodating a wide range of Ethernet cables.

3. OPERATING PRINCIPLES

The METZ CONNECT 130E405042-E functions as a high-performance RJ45 connector designed for demanding network environments. Once properly installed, it facilitates reliable data transmission and power delivery.

- **Data Transmission:** This connector is compliant with Cat.6A standards (ISO/IEC 11801 ED.2.2: 2011-06) and Class EA (DIN EN 50173-1: 2011-09), making it suitable for 10 Gbit Ethernet (IEEE 802.3an) applications.
- **Power over Ethernet (PoE):** It fully supports Power over Ethernet (PoE), PoE Plus, and UPOE (Universal Power Over Ethernet) technologies, allowing power to be delivered to compatible devices over the same Ethernet cable.
- **Shielding:** The fully shielded design minimizes electromagnetic interference (EMI) and radio-frequency interference (RFI), ensuring stable and high-quality signal transmission, especially in industrial or noisy environments.



Figure 4: The connector in an industrial application, demonstrating its robust design and suitability for demanding environments.

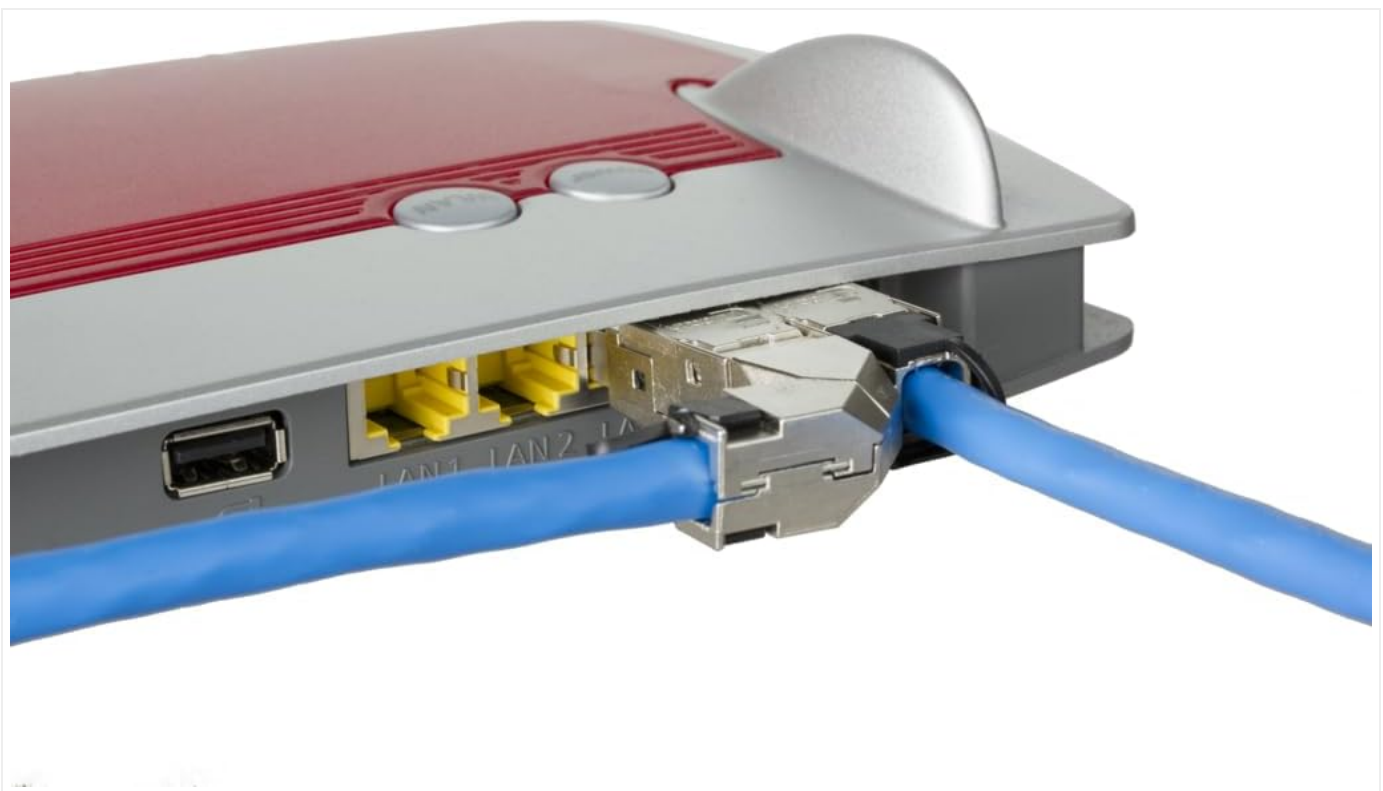


Figure 5: The connector in a typical home networking setup, illustrating its versatility for various devices like routers.

4. MAINTENANCE

The METZ CONNECT 130E405042-E wire connector requires minimal maintenance due to its durable construction and industrial-grade materials.

- **Cleaning:** If necessary, gently wipe the exterior of the connector with a dry, lint-free cloth. Avoid using liquid cleaners or solvents, as these may damage the housing or internal components.

- **Connection Integrity:** Periodically check the connection to ensure it remains secure. Although designed for robust connections, environmental factors or physical stress could potentially affect it over time.
- **Reconnectability:** A key feature of this connector is its reconnectability. If a connection needs to be re-terminated or adjusted, the connector can be opened and re-assembled using the same or a larger wire cross-section without degradation of performance.

5. TROUBLESHOOTING

If you encounter issues with your METZ CONNECT 130E405042-E wire connector, consider the following common troubleshooting steps:

- **No Network Connection:**
 - Ensure the connector is fully seated in the network port.
 - Verify that the cable is properly terminated within the connector. Re-open and re-terminate if unsure, ensuring wires are correctly seated and the housing is securely closed.
 - Check the integrity of the Ethernet cable itself. Try a different cable if possible.
 - Confirm that the network device (router, switch, etc.) is powered on and functioning correctly.
- **Intermittent Connection:**
 - This can often be caused by a loose connection. Ensure the connector is firmly plugged into the device.
 - Inspect the cable for any physical damage or sharp bends that could compromise signal integrity.
 - Verify that the cable jacket diameter is within the supported range (5.5 mm to 10.5 mm) to ensure proper strain relief.
- **Slow Data Transfer:**
 - Ensure both the cable and the connected devices support Cat.6A or higher speeds.
 - Check for excessive electromagnetic interference (EMI) in the environment. The connector's shielding helps, but severe interference can still impact performance.

If issues persist after these steps, consult a qualified network technician.

6. SPECIFICATIONS

Feature	Detail
Brand	METZ CONNECT
Model Name	130E405042-E
Connector Type	RJ45
Cable Type	Ethernet
Ethernet Cable Category	Cat 6a (ISO/IEC 11801 ED.2.2: 2011-06, Class EA)
Data Transfer Rate	10000 Megabits Per Second (10 Gbit/s)
Compatible Devices	Router, Switches, Network Devices supporting Ethernet

Feature	Detail
Supported Wire Gauges	Patch cables: AWG 27/7 to AWG 22/7; Installation cables: AWG 26/1 to AWG 22/1
Supported Cable Diameter	5.5 mm to 10.5 mm
Special Feature	Tool-free assembly, Reconnectable, 360° variable cable outlet
Power over Ethernet Support	PoE, PoE Plus (UPOE)
Protection Rating	IP20
Housing Material	Industrial-grade zinc die-cast
Color	Black / Silver
Item Weight	18.14 g (0.64 ounces)
Product Dimensions (LxWxH)	0.54 x 2.43 x 1.08 inches (61.7 x 13.8 x 27.5 mm)
Indoor/Outdoor Usage	Indoor, Outdoor

7. WARRANTY AND SUPPORT

Specific warranty information for the METZ CONNECT 130E405042-E Wire Connector is not available in the provided product data. For detailed warranty terms and conditions, please refer to the official METZ CONNECT website or contact their customer support directly.

For technical support or further inquiries, please visit the [METZ CONNECT official website](#) or contact their authorized distributors.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question