



EVT042

IFM EFECTOR EVT042 4-Wire M12 Cordset Instruction Manual

Model: EVT042

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the IFM EFECTOR EVT042 4-Wire M12 Cordset. Please read this manual thoroughly before using the product to ensure safe and efficient operation. This cordset is designed for industrial applications requiring reliable M12 connectivity.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in injury or equipment damage.

- Always disconnect power to equipment before connecting or disconnecting the cordset.
- Ensure all connections are secure and properly seated to prevent intermittent operation or electrical hazards.
- Do not exceed the specified voltage and current ratings for the cordset.
- Avoid bending or kinking the cable sharply, as this can damage internal wires.
- Protect the cordset from extreme temperatures, corrosive substances, and mechanical stress.
- Installation should only be performed by qualified personnel familiar with industrial electrical systems.

3. PRODUCT OVERVIEW

The EVT042 is a 4-wire M12 patchcable designed for robust industrial connectivity. It features straight M12 male (M) to female (F) connectors with stainless steel (SS) nuts for secure fastening. The cable jacket is made of PVC, providing durability and flexibility for various applications. The 1-meter length is suitable for short-distance connections between sensors, actuators, and control systems.



Figure 1: The EVT042 4-Wire M12 Cordset, showing the straight male and female connectors and the PVC cable. This image illustrates the physical appearance of the cordset, highlighting its M12 connectors and cable material.

4. SETUP AND INSTALLATION

1. **Power Disconnection:** Before beginning installation, ensure that all power to the connected devices is completely disconnected.
2. **Connector Alignment:** Align the M12 male connector of the EVT042 cordset with the corresponding female port on your device (e.g., sensor, actuator).
3. **Secure Connection:** Gently push the connector into the port until it seats properly. Then, hand-tighten the stainless steel nut clockwise until it is snug. Do not overtighten, as this can damage the connector threads.
4. **Repeat for Female Connector:** Connect the M12 female connector to the male port of the other device (e.g., control unit) following the same alignment and tightening procedure.
5. **Cable Routing:** Route the cable to avoid sharp bends, pinch points, and areas of high heat or abrasion. Use cable ties or clips if necessary to secure the cable path.
6. **Power Reconnection:** Once both ends of the cordset are securely connected, restore power to the equipment.
7. **Functionality Test:** Verify proper operation of the connected devices.

5. OPERATING GUIDELINES

The EVT042 cordset is a passive component designed to transmit electrical signals or power between two M12-compatible devices. Once properly installed, no specific operational steps are required for the cordset itself. Its function is to provide a reliable electrical connection.

- Ensure the cordset is not subjected to excessive pulling or twisting forces during operation.
- Regularly inspect the cable and connectors for any signs of wear or damage, especially in dynamic applications.
- Maintain a clean environment around the connectors to prevent contamination that could affect signal integrity.

6. MAINTENANCE

The EVT042 cordset requires minimal maintenance. Regular inspection is recommended to ensure optimal performance and longevity.

- **Visual Inspection:** Periodically check the entire length of the cable and both connectors for any signs of physical damage, such as cuts, abrasions, cracks, or corrosion on the nuts.
- **Connection Integrity:** Ensure that the stainless steel nuts on both connectors remain securely tightened. Retighten if necessary, but do not overtighten.
- **Cleaning:** If connectors become dirty, gently wipe them with a clean, dry, lint-free cloth. For stubborn dirt, a mild, non-abrasive cleaning solution can be applied to the cloth (not directly to the connector), ensuring no liquid enters the pin contacts. Allow to dry completely before reconnecting.
- **Environmental Protection:** Verify that the cordset is not exposed to conditions beyond its specified operating environment.

7. TROUBLESHOOTING

If you experience issues with your connected devices, consider the following troubleshooting steps related to the cordset:

Problem	Possible Cause	Solution
No signal or intermittent connection	Loose M12 connector nuts. Damaged cable or connectors. Incorrect wiring (less likely for pre-assembled cordset).	Ensure nuts are hand-tightened. Inspect cable for visible damage; replace if damaged. Verify pin assignments if possible (refer to device manual).
Device not receiving power	Loose connection. Damaged power wires within the cordset. Power supply issue (external).	Check and secure M12 connections. Test cordset continuity if possible; replace if faulty. Verify power supply to the source device.
Physical damage to cable jacket	Abrasion, cuts, or kinking during installation or operation.	Replace the cordset immediately to prevent electrical hazards or signal loss. Reroute cable to prevent future damage.

If troubleshooting steps do not resolve the issue, contact technical support or a qualified technician.

8. SPECIFICATIONS

Feature	Detail
Model Number	EVT042
Type	Cordset, Patchcable
Number of Wires	4-Wire
Connector Type (End 1)	M12 Male, Straight
Connector Type (End 2)	M12 Female, Straight
Nut Material	Stainless Steel (SS)
Cable Jacket Material	PVC
Cable Length	1 Meter
Brand	Generic (Manufacturer: IFM EFECTOR)
UPC	691027061145
ASIN	B0C4H2MHY3

9. WARRANTY AND SUPPORT

This product is covered by the standard warranty provided by the manufacturer, IFM EFECTOR, against defects in materials and workmanship under normal use. The warranty period typically begins from the date of purchase. Please retain your proof of purchase for warranty claims.

For technical support, warranty inquiries, or service, please contact your local IFM EFECTOR distributor or visit the official IFM EFECTOR website for contact information. When contacting support, please have your product model number (EVT042) and purchase details readily available.

Note: Warranty terms may vary by region and specific product. Refer to the official IFM EFECTOR warranty policy for complete details.

