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Cable Matters 104074x4

Cable Matters 4-Pack PWM 4 Pin Fan Extension Cable User Manual

Model: 104074x4

Product Overview

The Cable Matters 4-Pack PWM 4 Pin Fan Extension Cable provides an efficient solution for extending the reach of your PC cooling fans. These 12-inch (30 cm) cables are designed to improve cable management and optimize airflow within your computer case, supporting both 3-pin and 4-pin PWM fans.



Image: A set of four Cable Matters PWM 4 Pin Fan Extension Cables, showcasing their braided sleeving and connectors.

Key Features:

- **PWM Control Extension:** Extends PWM fan cables from motherboard headers, allowing fans to synchronize speeds using motherboard PWM control.
- **Enhanced Cable Management:** Sleeved design facilitates better cable routing and reduces stress on connections within the computer case.
- **Airflow Optimization:** Ideal for optimally placing cooling fans in various setups, including gaming rigs and mining rigs, to ensure maximum airflow.
- **Versatile 4-Pack:** A cost-effective solution providing multiple cables for diverse fan setups. 4-pin plugs send RPM signals for speed synchronization, while 3-pin connectors align with the main fan.
- **Broad Compatibility:** Fully compatible with PWM fan hubs and a wide range of computer case cooling fans from various manufacturers.

Setup and Installation

Follow these steps to properly install your Cable Matters PWM Fan Extension Cables:

1. **Identify Connectors:** Locate the 4-pin PWM male connector on your fan and the 4-pin PWM female connector on the extension cable. The extension cable also features a 4-pin PWM male connector to connect to your motherboard or fan hub.

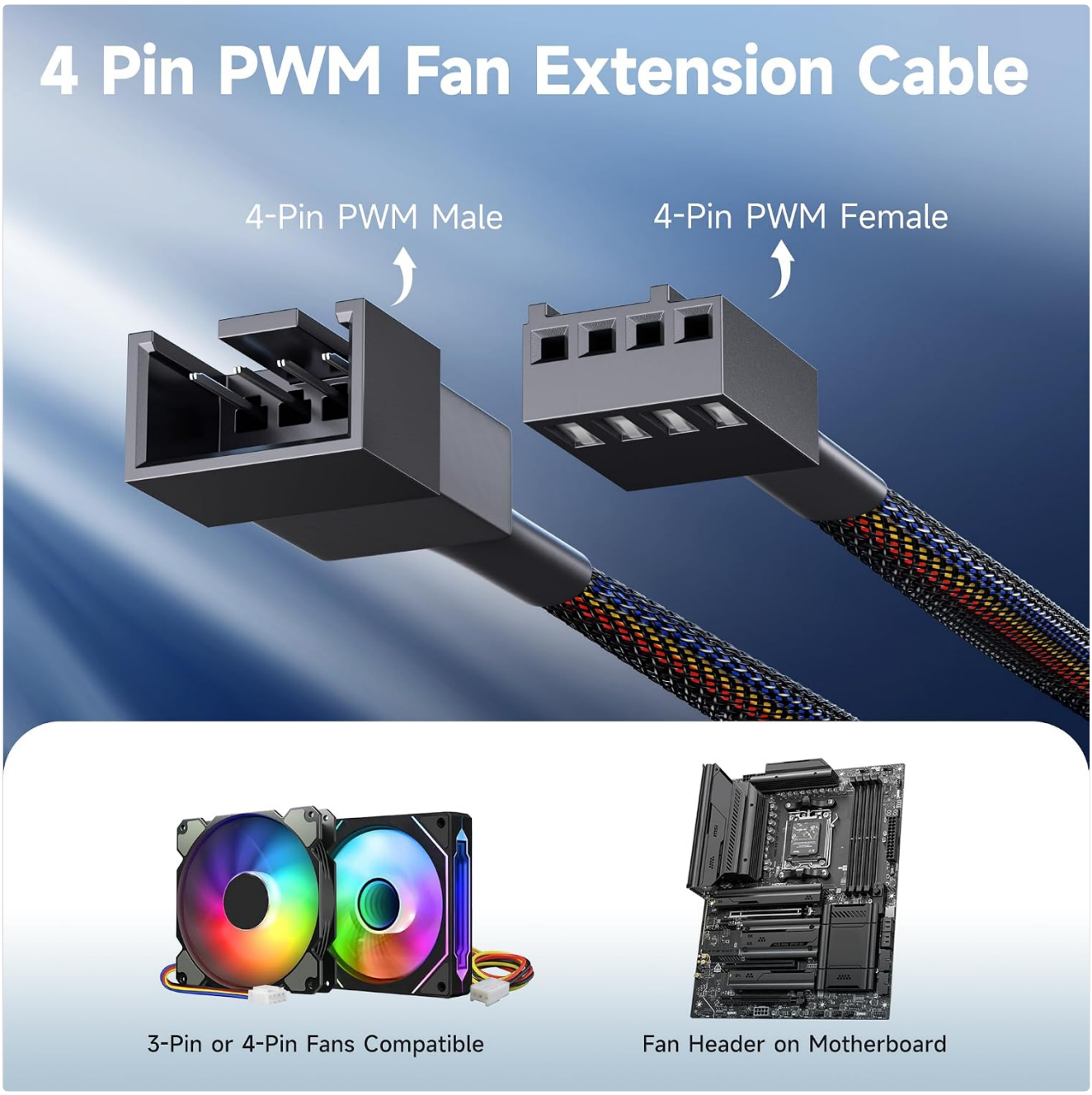


Image: A close-up diagram illustrating the 4-Pin PWM Male and 4-Pin PWM Female connectors of the extension cable.

2. **Connect Fan to Extension Cable:** Carefully align the 4-pin PWM male connector from your fan with the 4-pin PWM female connector on the extension cable and push them together until they click securely.
3. **Connect Extension Cable to Motherboard/Hub:** Plug the 4-pin PWM male connector of the extension cable into an available 4-pin fan header on your motherboard or a compatible PWM fan hub. Ensure the connector is oriented correctly to avoid damage.



Image: A visual representation of the fan extension cable being connected to a fan header on a motherboard.

4. **Route Cables for Optimal Airflow and Management:** Utilize the extended length of the cables to route them neatly within your PC case. This helps improve airflow by reducing cable clutter and allows for strategic placement of fans for better cooling.



Image: A person's hands installing two PC fans, connected with extension cables, into a computer case, demonstrating improved airflow and cable routing.

5. **Compatibility Note:** These cables are designed to work with both 3-pin and 4-pin fans. When connecting a 3-pin fan to a 4-pin header via the extension, the fan will operate at a constant speed as PWM control requires all four pins.

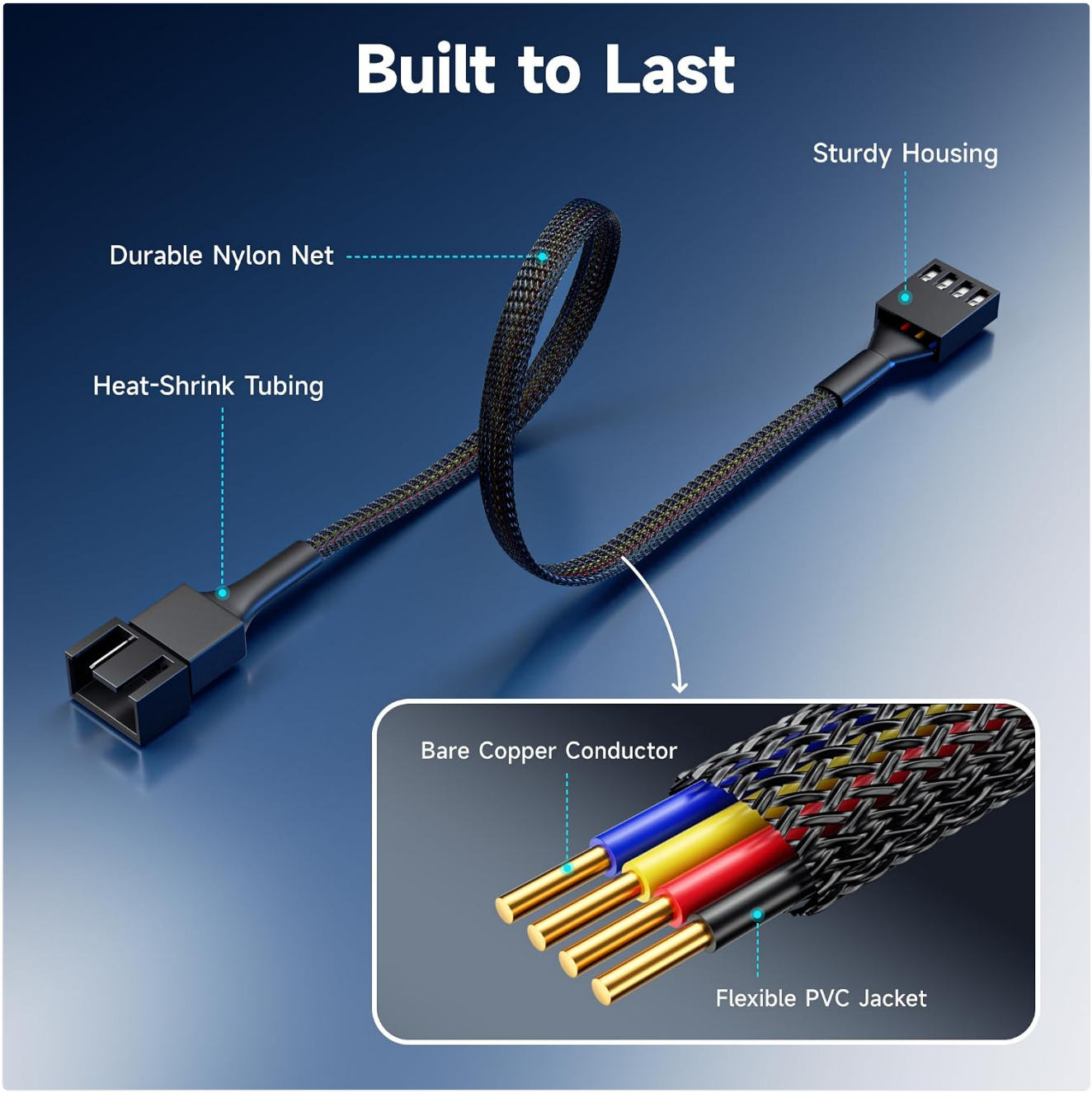


Image: A diagram illustrating how the extension cable is compatible with both 3-pin and 4-pin fan connectors, showing the different pin configurations.

Operation and Benefits

Once installed, the Cable Matters PWM Fan Extension Cables enable seamless integration of your cooling fans into your system's thermal management. The primary benefit is the ability to extend the reach of your fans, allowing for greater flexibility in component placement and improved airflow.

- **PWM Control:** For 4-pin fans, the extension cables maintain the Pulse Width Modulation (PWM) signal, allowing your motherboard to precisely control fan speeds based on system temperature. This ensures efficient cooling and reduced noise levels when full fan speed is not required.
- **Optimized Airflow:** By providing the necessary length, these cables allow you to position fans in critical areas of your PC case, such as front intakes, top exhausts, or radiator mounts, ensuring optimal air circulation and heat dissipation.
- **Reduced Cable Clutter:** The sleeved design and extended length help in routing cables behind the motherboard tray or along the case edges, leading to a cleaner build and unobstructed airflow paths.

Maintenance and Durability

The Cable Matters PWM Fan Extension Cables are designed for long-term reliability and require minimal maintenance. Their robust construction ensures stable performance over time.

- **General Care:** Keep the cables free from excessive dust accumulation. If cleaning is necessary, gently wipe them with a dry, lint-free cloth. Avoid pulling on the cables excessively when disconnecting.
- **Durable Construction:** The cables feature a braided nylon net for enhanced durability and a tidy appearance. Heat-shrink tubing is used for protection and stability at the connection points. Inside, bare copper conductors ensure signal integrity and reduce electromagnetic interference (EMI).



Image: An exploded view diagram highlighting the durable components of the cable, including the braided nylon net, heat-shrink tubing, and bare copper conductors.

Troubleshooting

If you encounter issues with your fan extension cables, consider the following troubleshooting steps:

- **Fan Not Spinning:**
  - Ensure all connections (fan to extension, extension to motherboard/hub) are secure and fully seated.
  - Verify that the fan header on the motherboard is enabled in the BIOS/UEFI settings.
  - Test the fan by connecting it directly to a known working fan header without the extension cable.
- **Incorrect Fan Speed/No PWM Control:**
  - Confirm that both your fan and the motherboard header support PWM (4-pin). If using a 3-pin fan, it will run at a constant speed.
  - Check your motherboard's fan control software or BIOS/UEFI settings to ensure PWM control is configured correctly.
- **Loose Connection:**
  - While the cables are designed for a secure fit, ensure no pins are bent or damaged on either the cable or the fan/motherboard connectors.

Specifications

Product Specifications

Feature	Detail
Brand	Cable Matters
Model Number	104074x4
ASIN	B0CNLDNZB2
Package Dimensions	8.23 x 6.38 x 0.55 inches
Item Weight	0.63 ounces
Connector Type	4-pin PWM
Cable Type	PWM files (Extension)
Compatible Devices	Computer, Fan
Special Feature	Braided sleeving
Date First Available	November 18, 2023

Warranty and Support

Cable Matters products are designed for reliability and performance. For any questions, technical assistance, or warranty inquiries regarding your PWM Fan Extension Cables, please contact Cable Matters customer support. Refer to the official Cable Matters website for the most up-to-date support information and contact details.

Note: Specific warranty terms and conditions may vary. Please retain your proof of purchase for warranty claims.

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