Cable Matters 104048x2

Cable Matters 2-Pack PWM 4 Pin Fan Extension Cable - 12 Inches

Model: 104048x2 | Brand: Cable Matters

1. Introduction

The Cable Matters 2-Pack PWM 4 Pin Fan Extension Cable is designed to extend the reach of your computer's PWM (Pulse Width Modulation) fans. This practical accessory allows for flexible fan placement within your PC case, ensuring optimal airflow and temperature management without the need for a separate fan controller. It enables fans to synchronize their speed with your motherboard's PWM control software, contributing to quieter operation and efficient cooling, especially during demanding tasks like overclocking.

2. Product Overview

Each package contains two 12-inch (approximately 30 cm) sleeved 4-pin fan extension cables. These cables feature a male 4-pin connector on one end and a female 4-pin connector on the other, allowing for a secure and reliable extension of your existing fan cables.



Image: Two Cable Matters PWM 4 Pin Fan Extension Cables, showing their sleeved design and connectors.



Image: The product packaging indicating a 2-pack, with two coiled extension cables.



Image: A detailed view of the male 4-pin connector, which plugs into the fan.



Image: A detailed view of the female 4-pin connector, which connects to the motherboard header or another extension.

3. Setup and Installation

1. **Identify Connectors:** Locate the 4-pin PWM fan header on your motherboard and the 4-pin connector on your computer fan.
2. **Connect Fan to Extension:** Plug the male 4-pin connector of the fan extension cable into the female 4-pin connector of your computer fan. Ensure the connection is firm and correctly oriented.
3. **Connect Extension to Motherboard:** Plug the female 4-pin connector of the fan extension cable into the male 4-pin PWM fan header on your motherboard. Again, ensure a secure and correct connection.
4. **Cable Management:** Utilize the flexible, sleeved design of the cable to route it neatly within your computer case. This helps improve airflow and reduces stress on the connections.

5. **Note on 3-Pin Fans:** While these cables are designed for 4-pin PWM fans, they can also be used with 3-pin fans. However, 3-pin fan connectors omit the RPM signal pin, meaning they will slave to the main fan's speed control and will not report their individual RPM to the motherboard.

4. Operating Principles

These extension cables facilitate the Pulse Width Modulation (PWM) functionality of your fans. When connected to a PWM-enabled motherboard header, the motherboard can precisely control the fan speed by varying the power pulses. This allows for dynamic fan speed adjustments based on system temperature, leading to:

- **Efficient Cooling:** Fans can ramp up speed when temperatures rise, providing necessary cooling.
- **Reduced Noise:** Fans can slow down when temperatures are low, minimizing operational noise.
- **Software Control:** Fan speeds can be managed and monitored through your motherboard's BIOS or dedicated software utilities.

5. Maintenance

The Cable Matters PWM fan extension cables require minimal maintenance. To ensure longevity and optimal performance:

- **Keep Connections Secure:** Periodically check that all connections (fan to extension, extension to motherboard) remain firm and have not loosened due to vibrations or movement.
- **Avoid Extreme Bends:** While flexible, avoid sharp or excessive bends in the cable to prevent internal wire damage.
- **Dust Removal:** If performing general PC maintenance, gently clean any dust accumulation around the cable and connectors to ensure proper contact and prevent overheating of components.
- **Indoor Use Only:** These cables are designed for indoor use within a computer chassis. Do not expose them to moisture or extreme temperatures.

6. Troubleshooting

If you encounter issues with your fan or its speed control after installing the extension cable, consider the following troubleshooting steps:

- **Fan Not Spinning:**
  - Ensure all 4-pin connections are fully seated and correctly oriented.
  - Test the fan by connecting it directly to the motherboard header (without the extension) to rule out a fan issue.
  - Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly.
- **Incorrect Fan Speed/No PWM Control:**
  - Verify that both your fan and motherboard header are 4-pin PWM compatible.
  - Ensure the fan is connected to a PWM-enabled header on your motherboard (some headers might be 3-pin or voltage-controlled only).
  - Check your motherboard's fan control software or BIOS settings to confirm PWM mode is selected and fan curves are configured as desired.
  - If using a 3-pin fan with this cable, remember it will not provide RPM feedback and will be voltage-controlled, not PWM.
- **Intermittent Connection:**
  - Reseat both ends of the extension cable.
  - Inspect the pins on both the fan and motherboard connectors, as well as the cable itself, for any signs of damage or bending.

7. Specifications

Brand	Cable Matters
Model Number	104048x2
UPC	818707023761
Connector Type	4 Pin Fan
Cable Type	PWM Fan Power Cable
Compatible Devices	Personal Computer, PWM Fan Hub
Color	Black
Connector Gender	Male-to-Female
Number of Pins	4
Cable Length	12 Inches (approx. 30 cm)
Number of Items	2 (per pack)
Wattage	18 watts
Item Weight	0.634 ounces

8. Warranty and Support

For detailed warranty information regarding your Cable Matters product, please refer to the official Cable Matters website or the documentation included with your purchase. Cable Matters stands behind the quality of its products.
If you require technical assistance or have questions about the product, please visit theCable Matters Store on Amazon or their official website for support resources, FAQs, and contact information.

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