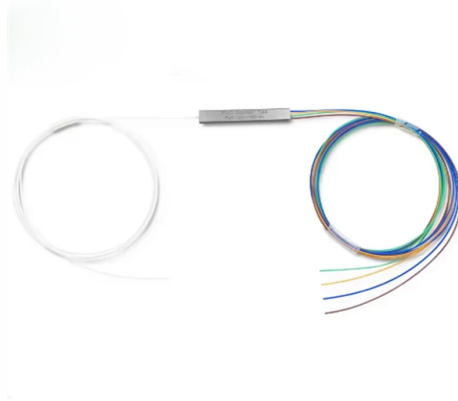


How to wire a 24-pin connector box



AI Overview

A 24-pin ATX connector requires precise wiring according to the standard pinout, with correct color-coded wires for power, ground, and control signals to safely connect a PSU to a motherboard.

Understanding the 24-Pin Connector The 24-pin ATX connector is the main interface between a power supply unit (PSU) and a motherboard, delivering multiple voltages (+3.3V, +5V, +12V, -12V, +5VSB) and control signals (PS_ON#, PWR_OK) while providing multiple ground connections for stability and EMI reduction. The connector is keyed to prevent incorrect insertion.

Standard Pinout and Wire Colors The pins are numbered left-to-right, top row first (Pin 1 = top-left, Pin 12 = top-right; Pin 13 = bottom-left, Pin 24 = bottom-right). Common wire color assignments include:

- +3.3V: Orange (pins 1, 2, 12)
- +5V: Red (pins 4, 6, 19)
- +12V: Yellow (pins 10, 11, 23)
- 12V: Blue (pin 14)
- Ground (COM): Black (pins 3, 5, 7, 15, 16, 17, 18, 20, 22)
- Power On (PS_ON#): Green (pin 16)
- Power Good (PWR_OK): Gray (pin 8)
- +5V Standby (5VSB): Purple (pin 9)
- 3.3V Sense: Orange/White (pin 12)

Wiring Steps Identify each wire using the color code and pinout diagram. Insert wires into the connector housing according to the pin numbers, ensuring the keyed side aligns with the motherboard header. Secure the wires using the connector's locking mechanism to prevent loose connections. Check continuity with a multimeter to verify correct connections before powering the PSU.

Activating the PSU Without a Motherboard To test the PSU independently: Connect the green PS_ON# wire (pin 16) to any black ground wire. Ensure the PSU is plugged into AC power. The PSU should start, and the gray PWR_OK wire should indicate stable output after a short delay.

Safety Tips Always double-check pin assignments before powering the PSU. Avoid shorting voltage lines directly. Use insulated tools and work on a non-conductive surface. If repurposing the PSU for electronics projects, ensure the load is within the PSU's rated capacity. By following the standard pinout and color codes, you can safely wire a 24...

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