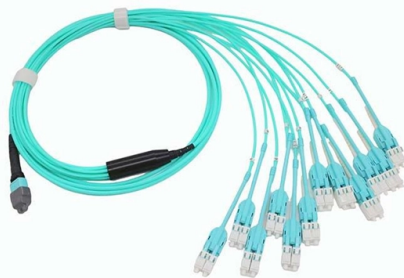


Control cable model for fan distribution box



AI Overview

Use a multi-core fan control cable rated for the system voltage, capable of carrying both power and control signals, typically 3- to 5-core with appropriate insulation. Recommended Cable Type For a fan distribution box, the control cable should meet the following criteria:

- Multi-core design:** Typically 3-core (for power and common control) or 4-5-core if additional signals like speed control or feedback are required.
- Voltage rating:** Match the fan system voltage, commonly 24V, 120V, or 230V AC/DC, depending on the fan controller.
- Conductor type:** Flexible stranded copper conductors are preferred for ease of routing and vibration resistance.
- Insulation and sheath:** PVC or XLPE insulation for electrical safety, with an outer sheath suitable for indoor or industrial environments.
- Shielding:** Optional, but recommended if the cable carries low-voltage control signals to reduce electromagnetic interference.

Application Notes

- Power and control separation:** Some designs use separate cables for fan power and control signals, while others combine them in a single multi-core cable.
- Connector compatibility:** Ensure the cable ends match the fan terminals or connectors in the distribution box. Many fan controllers, like those using TMP302 temperature switches, can operate independently of microcontrollers, but the cable must still provide reliable power and signal paths.
- Installation considerations:** Maintain proper bend radius, avoid sharp edges, and secure the cable to prevent mechanical stress. Distribution boards like ABB Mini Center Compact allow easy connection of incoming and outgoing cables with gland plates and shrouded terminals for safety.

Example Models

- RS Fan Cables:** Available in 3-, 4-, and 5-core configurations, rated for low-voltage fan control and power transmission.
- Industrial multi-core control cables:** Brands like Lapp, Belden, or Nexa...

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