

Customization Process for Dual-Core Male Connectors for Field Relay Protection



AI Overview

Dual-core male connectors for field relay protection are customized through careful selection of relay interface modules, connector type, electrical specifications, and integration with field devices to ensure reliable, safe, and efficient operation.

Overview of Dual-Core Male Connectors

Dual-core male connectors are typically used in relay interface modules to simplify wiring and provide organized, multi-channel connections between protective relays and field devices. These connectors support 1CO or 2CO relay configurations, allowing flexibility in switching requirements and enabling plug-and-play maintenance with minimal wiring errors (Connectwell).

Customization Steps

Define Application Requirements

Identify the type of relay protection needed (overcurrent, differential, bus, or transformer protection) based on the equipment to be protected and system criticality (PJM Manual 07, IEEE guides). Determine the number of channels, switching currents, and voltage levels. Dual-core connectors typically support up to 10 A at 250 VAC or 30 VDC.

Select Relay Interface Module

Choose modules with dual-core male DSUB connectors for multi-channel applications. Consider features such as LED status indicators, low coil power consumption, freewheeling diodes for coil protection, and onboard fuses for circuit safety. Decide between 1CO or 2CO relay configurations depending on the switching logic and redundancy requirements.

Electrical and Mechanical Specifications

Ensure compatibility with AC or DC inputs, possibly using modules with internal rectifiers for polarity-independent operation. Verify mechanical robustness for industrial environments, including DIN rail or panel mounting, vibration resistance, and long mechanical life.

Integration with Field Devices

Map each relay channel to the corresponding field device input/output. Use the dual-core male connector to consoli...

Article Content

D-0031-0, AV-30-C, Installation Manual UAV-1003947-001, Rev C

4.1 System Description The uAvionix AV-30-C is a fully digital multi-mode instrument that mounts in the legacy 3 1/8" round instrument panel. It can be field configured as either an Attitude Indicator (AI) or

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This setting gives the user access to all protection functions. The relay can also be automatically configured into selected modes using the other options in the

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