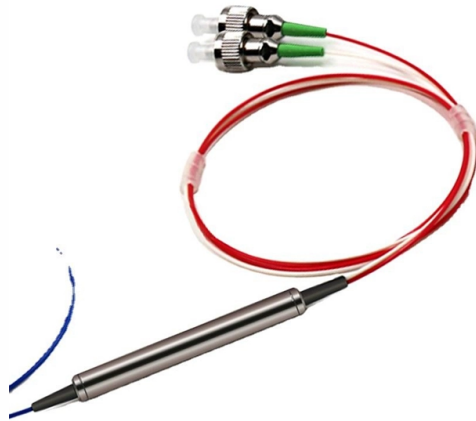


Customization Process for Dual-Core External Distribution Boxes for Island Users



Article Overview

Customizing dual-core external distribution boxes for island users involves a step-by-step process from requirement analysis to design, production, environmental adaptation, and rigorous testing to ensure reliability and safety.

Requirement Confirmation

The process begins with a detailed assessment of the island-specific needs. This includes determining electrical parameters such as rated voltage, current, and the type and quantity of internal components like circuit breakers, contactors, and motor protectors. Functional requirements—main distribution, control, and protection—are defined alongside installation environment considerations, including exposure to high humidity, salt spray, strong winds, and potential corrosion. Special requirements such as remote monitoring ports, IoT integration, or fail-safes for environmental hazards are also identified .

Design and Solution Development

Engineers create a custom design tailored to the island environment. This includes selecting materials resistant to corrosion, such as marine-grade stainless steel or powder-coated galvanized steel, and designing the enclosure to withstand humidity, salt, and UV exposure. The layout of electrical components is optimized for safety,...

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