Cost of Low-Voltage Complete Sets of Equipment in Spain

Overview

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Key Takeaways

A complete low-voltage electrical equipment set in Spain typically costs between €480 and €550 per project for commercial switchgear, with additional costs for wiring, protection devices, and installation depending on customization and building size.Commercial Switchgear

The low-voltage commercial switchgear market in Spain is valued at approximately €480–€550 million in 2026, which includes equipment, assembly labor, engineering services, and installation . Standard catalog products are available, but custom-engineered solutions for data centers, healthcare, or smart buildings can increase costs by 12–18% due to digitalization, IoT integration, and remote monitoring requirements .

Wiring and Cabling

Low-voltage wiring and cabling costs are significant, with the Spanish market estimated at €1.6–€1.9 billion in 2026 . Prices vary depending on cable type (building wire, control & instrumentation, data & communication), fire-resistance requirements, and compliance with European CPR standards. Specialized cables for industrial automation or smart buildings may increase the total cost by 8–12% due to installation complexity and labor shortages .

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Protection and Control Devices

Low-voltage protection and control devices—including circuit breakers, surge protectors, and smart controllers—are increasingly integrated into smart building systems. Costs are influenced by automation, energy efficiency, and compliance with EU safety standards . For residential or commercial projects, these devices can represent a substantial portion of the total equipment budget, especially when IoT-enabled or renewable-energy compatible.

Residential Installation Example

For a medium-sized home, a full electrical installation (including wiring, panels, and basic protection devices) typically costs €35–€40 per m², translating to approximately €1,900 for an 80 m² flat or €3,500 for a 200 m² house . This estimate excludes high-end smart devices or specialized industrial equipment.

Factors Affecting Total Cost

• Customization: Engineer-to-order or configure-to-order solutions increase costs.

• Smart features: IoT-enabled monitoring, energy metering, and automation add 10–20% to equipment value.

• Labor and installation: Electrician rates range from €20–€90 per hour, with additional costs for masonry or false ceilings if required .

• Regulatory compliance: Certification, grounding, and adherence to EU directives may add €70–€300 per project .

Summary

For a complete low-voltage set in Spain, including switchgear, wiring, protection devices, and installation, commercial projects typically start around €480–€550 per unit or per small-scale project, while residential installations for medium-sized homes range from €1,900 to €3,500, depending on size, complexity, and smart features . Customization, IoT integration, and compliance with safety standards can significantly increase the total cost.

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