

Clean not chaotic: Best practices for low voltage cable routing in your Guard Shack



As security technology advances, guard booths have become more complex as they house security control panels, servers, IDF cabinets, communication control cabinets, and CCTV cameras. Partnering with a guard booth manufacturer that prioritizes clean low voltage cable installation is essential. Why? Because "clean" or organized, secure routing can significantly impact functionality, safety and compliance with industry standards or codes.

Top design aspects to consider



Factory-installed J-Boxes: No matter the booth size or the location of the security panels, factory-installed J-Boxes and conduits can ensure an organized and efficient connection to your devices and reduce equipment installation time and potential errors.

Dedicated security area: Larger guard booths should have a specifically designed, built-in area (Security Room, IDF Closet, etc.) with:

- Galvanized steel partition walls with fire-rated plywood attached for mounting security devices to interior walls
- Strategically placed outlets and high-efficiency LED lighting
- A dedicated air conditioner for cooling

Clean cable routing: Organizes cables for precise installation and easy identification.

- From where the guard is positioned, low voltage cable for data, communication, and security monitors is typically routed by factory-installed J-Hooks, conduits, and/or cable chases that are placed in well-thought-out areas like the attic, running from front to back.
- In the dedicated security area, gutter boxes are strategically placed just below the ceiling line. Cables are terminated in the gutter boxes, then routed to the specific controller for each item. For CCTV cameras, J-Boxes are flush mounted with conduits into the attic and/or to the gutter box.
- Factory-installed conduits for low voltage items feature labeled pull strings, which simplifies setup for technicians.

Easy access for maintenance and upgrades

An exclusive feature of B.I.G. booths is an acoustic tile drop ceiling, allowing easy attic access to facilitate troubleshooting, maintenance, and quick adjustments.

B.I.G. Enterprises expertly manufactures every booth to minimize on-site work, enable an easy, efficient equipment setup, and adapt to evolving low voltage needs.

Find out why B.I.G.'s better-built options lead to better-built security booths.

Why B.I.G. prioritizes clean cable routing

- **Reduced interference:**
Minimizes electromagnetic interference of sensitive electronic equipment.
- **Enhanced functionality:**
Helps ensure adequate power and data transmission.
- **Long-term stability and fewer downtime issues:**
Less likely to experience failures due to poor connections or damaged wiring.
- **Aesthetic appeal:** For booths that are visible to the public.
- **Helps meet electrical codes:** All B.I.G. booths are manufactured to the IBC, all electrical components are UL-approved, and all booths are wired to the NEC.

**Need guidance?
Ask our experts:
1.800.669.1449**

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