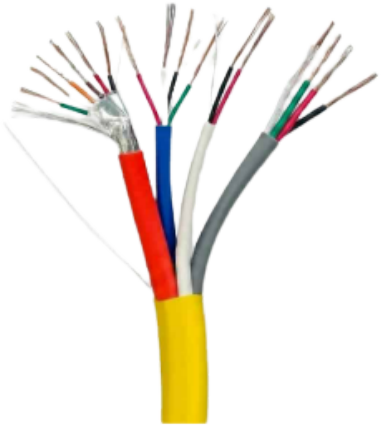
ACCUTECH ACT-CBL1

Access Control Components | Centralized Wander Management Infrastructure Hub



PRODUCT OVERVIEW

The Accutech ACT-CBL1 Access Control Components serve as core hardware intelligence components within advanced wandering management and resident safety infrastructures. They are engineered to bridge the gap between physical perimeter sensors deployed at facility exits and localized control monitoring stations. By aggregating and processing specialized interface connection metrics and bus signals from protected entry points, they eliminate the operational complexity of managing individual entry points. This centralized topology ensures that large-scale senior care, nursing home, memory care, and hospital facilities maintain instantaneous, real-time situational awareness.

Deployed directly at high-traffic egress boundaries, controller panels, and restricted access zones, the ACT-CBL1 module channels continuous data transmission and signal telemetry. This proactive routing method eliminates communication bottlenecks and guarantees that complex localized actions—such as authorized staff bypass, secure visitor access, and localized security overrides—are instantly synchronized with perimeter sensors. This active tracking processing ensures absolute protection across expansive hospital wings, long care facility corridors, and high-risk infant protection zones by safeguarding exposed external egress routes from environmental wear and unauthorized passage.

ARCHITECTS AND ENGINEERS (A&E) SPECIFICATION

- **System Infrastructure:** The contractor shall supply, install, and configure the Accutech ACT-CBL1 Access Control Components to act as the primary external security access control and localized override node. The hardware must support direct integration configurations to synchronize active bypass states directly with peripheral zone controllers.
- **Perimeter Infrastructure Protection:** The remote interface cabling assembly shall incorporate a durable, commercial-grade structural design explicitly engineered to sustain continuous clinical exposure, operating reliably across extreme temperature variations, direct moisture impacts, and high-humidity environmental conditions.
- **Access and Control:** The device physical interface shall feature a heavy-duty, low-attenuation conductive link layout to allow authorized clinical staff, security personnel, and facility supervisors to execute localized door bypass commands and alarm resets directly at the security boundary.

- **Enclosure and Durability:** The conductors and shielding assembly shall be protected inside a ruggedized, vandal-resistant commercial-grade housing optimized for flush-mount or surface-mount terminal configurations inside conduits, junction boxes, or architectural door frames.
- **System Interoperability:** The connection component architecture must feature validated native compatibility for direct low-voltage data connection with Accutech environmental safety platforms, ensuring non-latent signaling and secure credential validation across the facility's dedicated security network.

SYSTEM COMPONENTS

The ACT-CBL1 Access Control Components incorporate several fundamental integrated sub-modules and physical connection layouts:

- **Conformal Environmental Insulation:** The primary multi-conductor core assembly coated with protective high-durability insulation compounds to isolate electronic transmission paths from background moisture and wall dust intrusion.
- **Commercial-Grade Conducting Matrix:** Ruggedized, high-durability copper or alloy conductors featuring optimized gauge specifications for stable power delivery and low-voltage digital signaling.
- **Heavy-Duty Shielding Interface Module:** Integrated dual-layer foil/braid shielding paths dedicated to eliminating secondary perimeter distortion, localized zone crosstalk, or magnetic lock background noise.
- **Low-Voltage Connection Backplane:** Multi-position wire lead termination structures or integrated pin layouts designed for clean, reliable power, ground, and data activation communication line termination.
- **Vandal-Resistant Outer Protective Jacket:** Heavy-duty commercial-grade flame-retardant outer sheath providing structural impact protection and integrated structural grounding paths.

FEATURES AND BENEFITS

- **Centralized Boundary Awareness:** Consolidates dedicated link routing and data bus connection states down to a single monitoring focal point, greatly simplifying hardware footprints and reducing response times for clinical teams.
- **Optimized Signal Integrity:** Features high-grade, low-resistance internal conductors engineered to maintain clean telemetry pathways, preventing signal dropouts or latent data transfers over long perimeter runs.
- **Heavy-Duty Interference Shielding:** Employs a dense mechanical foil or braided shielding matrix behind the outer insulation to guarantee complete protection against electromagnetic interference (EMI) in high-density clinical spaces.
- **Vandal-Resistant Outer Jacket:** Built using impact-resistant structural components and a heavy-duty outer jacket profile that safeguard internal electronic processing paths against high-traffic workspace hazards and deliberate tampering.
- **Validated Platform Interoperability:** Engineered for total compatibility out-of-the-box with established Accutech security environments, ensuring a unified approach to facility patient protection.

PRODUCT SPECIFICATION

Manufacturer	Accutech Healthcare Security Solutions
Product Model Name	Access Control Component Interconnect Cable Assembly
Part Number / SKU	ACT-CBL1
Cable Assembly Type	Multi-Conductor Shielded Low-Voltage Security Data Bus
Enclosure Protection Rating	Plenum or Riser Rated Jacket / Vandal-Resistant Sheathing

Operating Input Voltage	Managed Low-Voltage Signal/Power Paths via Parent Access Controller
Interface Link Mechanism	Pre-Stripped Wire Conductors / Interconnect Terminals for Power, Ground, and Signal Buses
Wander System Compatibility	Accutech ResidentGuard Series Access and Security Environments
Chassis Construction	Heavy-Duty Industrial Commercial-Grade Flame-Retardant PVC / Polymer Jacket
Primary Target Environments	Access Control Panels, Keypads, Proximity Readers, Delayed Egress Lock Frameworks

COMPLIANCE AND CERTIFICATION

- **FCC Status:** Designed and certified to meet FCC Part 15 regulations regarding digital device shielding. This guarantees that multi-zone switching and enclosed hardwired signal paths do not cause or sustain harmful electromagnetic interference with nearby diagnostic medical devices or critical patient networks.
- **UL Listing:** Engineered and assembled using components compliant with UL safety classifications for low-voltage signal appliances, exterior access control equipment, and healthcare facility alert instrumentation.
- **RoHS Compliance:** Formulated in alignment with environmental protection directives, ensuring that the assembly, internal structural materials, and insulation compound configurations restrict the use of lead, mercury, and other hazardous materials.