

RIVO MULTITRADE OPTICAL SYSTEMS

Manufacturer of Flame Retardant Cold Aisles for Low Voltage Wiring Trays



✓ IP65/IP55 OUTDOOR CABINET

✓ WATERPROOF OUTDOOR CABINET

✓ 42U/27U

✓ OUTDOOR BATTERY CABINET

Overview

Aisle Containment in Data Centers The flame-retardant formulation meets UL 94 V-0 and clears the NFPA 75 section 6.7.3 material requirement. And it is Data.

Key Takeaways

Subzero Engineering, Armstrong, and Legrand offer flame-retardant cold aisle containment solutions compatible with low-voltage wiring trays. Key Manufacturers and Solutions



1. Subzero Engineering Subzero provides Essential and Elite Series containment systems that fully separate cold supply and hot exhaust airflow. Their strip doors and modular partitions are fire-resistant, can be mounted on ceilings or cable trays, and are customizable for various aisle lengths and layouts, making them suitable for low-voltage wiring tray integration . 2. Armstrong Aisle Containment Armstrong's Cool Shield™ system includes floor-mounted structures, framed panels, modular partitions, and containment doors. These systems are made from premium-grade, durable materials and are designed to support critical infrastructure such as cable trays and busbars. Their containment solutions are American-made and optimized for long-term performance in data centers . 3. Legrand Contain-IT FLEX Legrand offers modular cold aisle containment that can be assembled on-site and supported by cabinets or ceilings. Their systems are pre-fabricated, scalable, and fire-resistant, providing controlled airflow while accommodating low-voltage wiring trays and other ancillary equipment. Seismic-rated options are also available for enhanced safety . 4. Flame-Retardant Cable Trays and Conduits For low-voltage wiring, manufacturers like LAPP, TE Connectivity, and BST Thermal Products provide halogen-free, flame-retardant cable trays, wireways, and sleeves. These products are UL-rated, resistant to heat and fire, and compatible with modular containment systems, ensuring both safety and compliance with electrical codes .

Considerations for Selection

- **Material and Fire Rating:** Ensure UL94V-0 or equivalent flame-retardant certification.
- **Compatibility:** Check that containment systems can integrate with existing low-voltage cable trays or busbars.
- **Modularity and Scalability:** Systems should allow easy reconfiguration for future upgrades.
- **Installation Flexibility:** Ceiling-mounted, floor-mounted, or cabinet-supported options depending on data center layout.
- **Seismic and Safety Compliance:** Especially important for critical infrastructure or high-density deployments. By selecting solutions from these manufacturers, you can achieve efficient airflow management, fire safety, and reliable support for low-voltage wiring trays in modern data centers.

Article Content

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