BAND-IT®

ENGINEERED FASTENING SOLUTIONS

BAND-FAST® CABLE CLEAT

DATA CENTER CASE STUDY

A leading global hyperscale data center operator adopted BAND-FAST stainless steel cable cleats across multi-region builds to solve challenges common to modern, high-density power distribution: slow installs, complex sizing, multicomponent hardware and long lead times. BAND-FAST's post-pull installation, single-piece design and IEC 61914 tested short circuit restraint provided faster installation, simplified planning and consistent performance across project phases in both Europe and Asia.

Across Multiple campuses, BAND-FAST kept schedules moving when alternative cleat suppliers could not meet delivery timelines. Contractors eliminated more than 80% of the sizing and component selection workload and gained installation speed using the DT2000 Digital Banding Tool, while design teams gained confidence through globally recognized cleat performance standards. As hyperscale developers continue rapid market expansion, BAND-IT is ready to support upcoming phases with the same speed, reliability and installation simplicity that kept previous builds on track.

FEATURED PROJECTS

Multi-facility Build in Western Europe: Large-scale, high density campus requiring rapid in-tray installation and late=phase spec adjustments.

High-growth APAC Hyperscale Campus: Accelerated construction schedule across multiple buildings requiring fast delivery and simplified engineering.

WHY BAND-FAST CLEATS WERE SELECTED

Proven Short Circuit Performance: IEC 61914:2015 tested strength you can confidently specify, with faster, simpler installation than multi-piece cleats.

Optimized for High Density Trays: Compact design supports trefoil, in-line and diamond layouts without extra hardware – maximizing tray space.

Engineer Friendly Documentation: Clear IEC aligned data simplifies calculation, spacing and design decisions.

Supports Global Builds: In US projects, BAND-FAST helps meet NEC 392.20(C) by keeping single conductors properly secured under fault forces – giving hyperscale teams a fast install and globally consistent cleat solution.

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CASE STUDY #1 | WESTERN EUROPE MULTI-FACILITY CAMPUS

CHALLENGE

Customer spec initially called for double wrap self-locking ties that required rubber sleeves, a multi component approach with more friction in dense tray installations. Additionally, late phase material changes required a solution with faster installs, a tighter profile and IEC tested compliance.

OUR SOLUTION

- On-site demo to the project team to introduce PPA Coated BAND-FAST Cable Cleats as a single platform alternative.
- Result: Call off order for 24,000 pcs + installation tools to support the 2nd half of the facility build out.

WHY BAND-IT WON

- **Fast, reliable delivery** that kept project schedules moving.
- **Speed & post pull install** that reduced labor and rework.
- **Slim profile** to preserve tray capacity in high density runs.
- **IEC 61914** test pedigree for short circuit restraint.

REGULATORY/DESIGN CONSIDERATIONS

- Cable Cleats: IEC 61914 compliance for axial, lateral and short circuit performance.

OUTCOMES

- Specification shift from multi-component to BAND-FAST, simplifying takeoff, install steps and QA.
- High density fit improved tray usage and routing flexibility late in the schedule.

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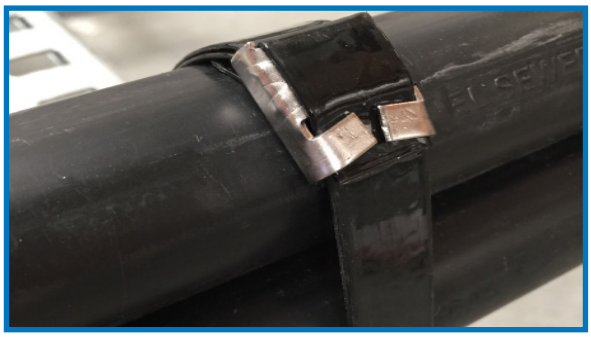
CASE STUDY #2 | APAC HYPERSCALE CAMPUS

CHALLENGE

A multi-building APAC data center expansion faced compressed schedules, stringent installation requirements and urgent material needs. Site teams needed fast, reliable cable restraint that reduced engineering workload and arrived quickly to avoid delays.

OUR SOLUTION

- 20,000 pcs of BAND-FAST and 2 DT2000 Digitial Banding Tools.
- First shipment in December 2025 with remaining volume staged throughout 2026 to match build cadence.



WHY BAND-IT WON

- **Lead Time:** First lot delivered ~3 weeks after initial PO, letting install crews start on schedule.
- **Engineering Simplification:** BAND-FAST's universal fit reduced >80% of sizing and quantity calculations vs traditonal cleats - freeing engineers to focus elsewhere.
- **Productivity & QA:** The DT2000 Digital Banding Tool ensured consistent tension and provided daily progress data, raising install quality, shortening install time and improving reporting.

DT2000 Digital Banding Tool

REGULATORY/DESIGN CONSIDERATIONS

- Cable Cleats: IEC 61914 compliance for axial, lateral, & short circuit performance.

OUTCOMES

- No start-of-work delay from material availability; crews began as planned instead of waiting on supplies from other leading brands.
- Reduced field friction from post pull install & universal sizing cutting rework and picking errors.
- Documented progress & quality via DT 2000 data logs providing daily reporting uplift.

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WHAT THIS MEANS FOR FUTURE HYPERSCALE PROJECTS

The industry is rapidly moving towards globally unified cleating practices, with NEMA aligning guidance to IEC 61914-style performance expectations and NEC/UL updates anticipated in future cycles. Standardizing now helps avoid rework, redesign and code-driven changes later.

- **Speed to Install:** Post pull installation, fewer parts and ergonomic tooling deliver measurable crew gains on tight schedules.
- **Safety & Compliance:** IEC 61914 short circuit performance is built in, supporting the shift toward harmonized global cleat requirements.
- **Tray Efficiency:** Slim profile and universal fit across trefoil, inline and diamond formations maximize tray space in high density environments.
- **Lead Time Agility:** Three week first shipment in proved critical to starting on time - we can repeat this playbook at scale.
- **Tooling Advantage:** Consistent tension and faster installs with the DT2000 Digital Banding Tool accelerated throughput without sacrificing quality.

By moving toward unified, highspeed, IEC aligned cleating practices now, we'll keep your projects ahead of schedule and protected from upcoming code shifts.

READY TO SUPPORT YOUR BUILD TODAY

BAND-IT operates regional manufacturing in North America, Europe, and Asia, enabling reliable, fast delivery no matter where your next build is located. Paired with our global sales offices, we provide local support, rapid response, and region specific engineering guidance to keep your projects moving without interruption.

DESIGN TEAMS, CONTRACTORS AND PARTNERS CAN CONNECT DIRECTLY FOR:

- Project support and sizing guidance.
- Specification support (IEC / NEC alignment).
- Leadtime and logistics planning.
- Onsite installation and tooling support.

LETS BUILD THE NEXT PHASE TOGETHER: FASTER, SIMPLER AND WITH COMPLETE CONFIDENCE

Use the "Contact Us Today" link to connect with us for support on projects anywhere in the world - across Asia, Europe, and all global regions.

CONTACT US TODAY

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