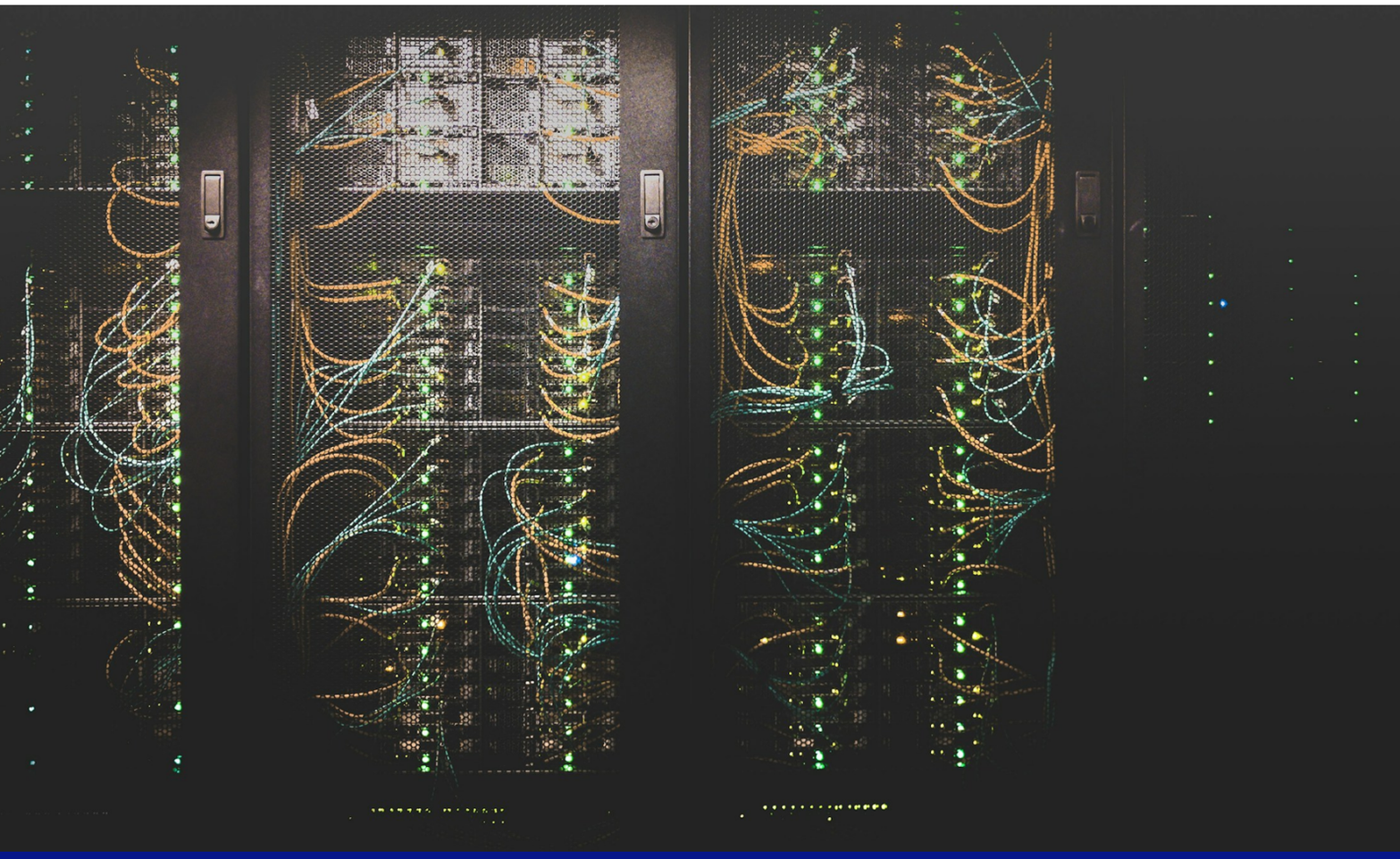

DATA CENTRES

Data centre cable management

Component selection & installation planning guide

TECHNICAL GUIDE
BAND-IT products | UES Promura
8 October 2026

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10-12 McWilliam Street, Springvale VIC 3171 | uespromura.com.au
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Define the restraint task

Separate fault restraint, routing and installation requirements before selecting a part.

Power cable restraint

Use an assembly with relevant short-circuit test evidence for the design's cable diameter, formation, peak fault current, spacing and support geometry.

Routing and bundling

Use an appropriate tie family for the cable-management task. Loop tensile strength and material durability do not establish short-circuit performance for the installed cable run.

Installation control

Specify compatible tensioning, cutting and clip-finishing tools. Include any required recorded settings, inspections and operator training.

Selection and installation remain subject to the project engineer's specification and the manufacturer's current instructions. This guide helps structure the product review; it does not calculate a design.

Source references: [2], [1], [12] | Linked documents in reference pages

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Cable-cleat family map

Identify the assembly before reviewing dimensions and test evidence.

Family	Configuration	Associated detail
LFAC	PPA-coated 316 SS; single wrap	Match length and tested cable arrangement
LFFC	PPA-coated 316 SS; double wrap	Width, wrap and spacing affect test result
LFEC	Uncoated 316 SS; heavy-duty band	Specified cushion channel required
AE43 / AE45	316 SS band & clips	Component range; verify complete assembly

Direct-to-rung or alternative support

Check that the rung slot accommodates the band, and that the support geometry matches the specified method. A cross-wrap or bracket arrangement requires matching evidence; it is not automatically covered by a direct-to-rung result.

Preformed versus bulk band

Do not infer a tested cleat rating from bulk-band material or width alone. Match the part number, buckle, wrap, cable protection and installation procedure.

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Coated assemblies & rung slots

Selected examples from the BAND-FAST B380 brochure; use the complete manufacturer table for final selection.

Coated family / width	Wrap	Minimum slot
LFFC / 9.5 mm (3/8 in)	Double	11.5 mm
LFFC / 12.7 mm (1/2 in)	Double	14.5 mm
LFAC / 15.88 mm (5/8 in)	Single	17.5 mm
LFFC / 15.88 mm (5/8 in)	Double	17.5 mm

Cable contact

Specified PPA-coated arrangements use a protective low-smoke, zero-halogen coating for direct cable contact without a separate cushion channel.

Length and diameter

Single-core, trefoil and quadrafoil formations require different band lengths. Published maximum diameters are guidance values; check the selected arrangement, wrap and support geometry.

Slot dimensions describe fit, not a fault rating. Confirm support strength, edge conditions, installation access and the applicable tested configuration.

Full B380 selection tables >

Source references: [3] | Linked documents in reference pages

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Uncoated cleats & cushion channels

The liner belongs in the specified assembly and bill of materials.

Neoprene sleeve	Matched band width	Supply length
CS10E009	15.88 mm (5/8 in)	9 m
CS12E009	19.1 mm (3/4 in)	9 m

Review the whole assembly

The B380 brochure describes heavy-duty uncoated 316 stainless steel band, 0.76 mm steel thickness, used with protective cushion channel. Confirm the relevant part, wrap and installation method.

Check liner material

The manufacturer also lists LSZH TPE sleeve options on its product page. Select the actual liner required by the test evidence and project specification; do not substitute materials on appearance alone.

Source references: [3], [2] | Linked documents in reference pages

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Read short-circuit evidence correctly

Peak current, cable formation and restraint spacing must be read together.

5/8 in PPA-coated trefoil example	300 mm spacing	600 mm spacing
LFAC single wrap	50.8 kA peak	45.5 kA peak
LFFC double wrap	76.3 kA peak	70.1 kA peak

What these examples demonstrate

The B380 table reports different results for single and double wraps and for different restraint spacing. These figures illustrate the need to match a configuration; they are not a blanket rating for a family.

What to request

Obtain the relevant report and its cable diameter, formation, support, wrap and test conditions. Confirm the referenced IEC 61914 edition and test category against the project requirements.

Peak versus RMS

Do not compare a peak test current directly with an RMS fault-current specification. The design review must reconcile the specified fault quantities and the tested conditions.

The manufacturer also publishes uncoated configurations with results up to 120 kA. Use the corresponding report and assembly detail before considering those results applicable.

Source references: [3], [2] | Linked documents in reference pages

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Routing ties & matching tools

Match the locking system and tie width to the installation tool.

Tie family	Material / finish choices	Tool reference
Ball-Lok KE / KT	Selected 304 / 316 SS; coated / uncoated	K50289; XE9229 / KE9229
Multi-Lok AE6 / AE7	316 SS; coated / uncoated	M50389
Reusable AE1 / AE3	316 SS; coated / uncoated	AE2009; compatible C075
Tie-Lok / Mini Tie-Lok	Part-specific stainless steel	A92079 / A91079
1/4 in Ultra-Lok ties	Part-specific stainless steel	A94079

Part-level checks

Verify tie length, maximum bundle diameter, width, finish, loop tensile value and tool compatibility in the applicable product table. Coated and uncoated variants can have different performance values.

Cable protection

Choose the specified protective finish and installation tension. Check cable-jacket condition after tightening and finish the tail using the correct tool.

This table identifies tool references for routing ties. It does not qualify these ties as a substitute for a tested cable-cleat arrangement.

Source references: [4], [5], [6], [15], [13], [14] | Linked documents in reference pages

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Banding tool selection

Published capabilities identify candidate tools; the selected assembly determines compatibility.

Tool	Installation role	Published range / control
DT2000	Digital cable-cleat banding	Torque sensor; digital adjustment; optional records
C075EL	Powered coated-band installation	9.5-19.1 mm; up to 0.76 mm thick
C075 Bantam	Manual ratchet tensioning & cutting	Up to 19 mm; up to 0.63 mm steel thickness
C00169	Manual standard banding	6.4-19.1 mm; 0.38-0.76 mm thickness
LT625D LokMate	Compatible clip fastening	Push to fasten; separate from tensioning

Do not transfer a tool limit

The C075's 0.63 mm limit is different from the 0.76 mm material listed for heavy-duty uncoated cleats. Check the approved tool and procedure for that assembly.

Specify the kit

Confirm batteries, chargers, spare cutting parts, approved band range and optional DT2000 recording features. Manufacturer listings exclude batteries for DT2000 and C075EL; confirm the UES Promura supply package.

LokMate is described by the manufacturer as launching in Q4 2026 and not yet commercially available in its field-tool article. Confirm local availability before specifying supply.

Source references: [7], [8], [9], [10], [11], [12] | Linked documents in reference pages

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Installation planning & verification

Use the current manufacturer procedure for the selected product and support arrangement.

Before installation

Verify part numbers, formation, restraint spacing, support geometry and access. Check tool condition, approved settings and the required liner or coating. Train installers on the applicable locking method.

During installation

Keep the specified wrap and contact protection. Apply the required tension using the compatible tool and complete the lock using the manufacturer procedure. Avoid changing the support method or component combination on site without review.

After installation

Check lock completion, tail finish, cable-jacket condition, restraint positions and spacing. Record product, location, settings and inspection results as required by the project quality plan.

Digital records

If optional DT2000 data capture is specified, establish the settings-selection and export workflow before work starts. Define how records are linked to installation locations and retained at handover.

Source references: [12], [7], [3] | Linked documents in reference pages

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Project selection & procurement checklist

Collect these details before asking for the product package and supporting reports.

Input	Project detail to provide
Cable	Outside diameter, quantity, cable type and jacket limits
Formation	Single / multicore, trefoil, quadrafoil or other layout
Fault duty	Specified peak and RMS values; project engineer's requirements
Spacing	Required centres and route length
Support	Tray / ladder type, rung-slot width and mounting detail
Environment	Exposure, corrosion, coating / liner and LSZH requirements
Components	Cleat / band, clip, sleeve and any approved bracket
Tooling	Exact tool, approved range, batteries and finishing method
Quality	Training, inspections, settings and record requirements
Procurement	Quantities, location, timing, spares and availability

Send the project details >

Manufacturer-backed calculator >

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Technical references

Product documents and manufacturer information used in this guide.

[3] BAND-FAST cable cleat solutions - B380

[1] Power cable management - B-412

[2] BAND-FAST cable cleats - manufacturer specifications

[7] DT2000 digital banding platform - manufacturer

[8] C075EL Electric Bantam - manufacturer

[9] C075 Bantam hand tool - manufacturer

[10] C00169 standard banding tool - manufacturer

[11] LT625D LokMate - manufacturer

[12] Banding tools for field cable management - availability information

Source review: 8 October 2026. Product information and availability can change. Use the current report, instructions and project specification at selection and installation.

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Tie references & project support

Complete the review with the routing-tie documents and a defined installation package.

Contact UES Promura

03 95475833 | Outside Australia: +61 3 95475833
sales@uespromura.com.au
10-12 McWilliam Street, Springvale VIC 3171

[4] Ball-Lok ties - manufacturer specifications

[5] Multi-Lok ties - manufacturer specifications

[6] Reusable AE ties - manufacturer specifications

[13] M50389 Multi-Lok tool instructions

[14] AE2009 cable tie tensioner - manufacturer

[15] BAND-IT Product Solutions Guide

This guide covers BAND-IT cable restraint and routing products relevant to data centre installations. It is a selection aid, not a substitute for engineering design or manufacturer installation instructions.

Discuss your data centre project >

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