



**THE DATASHEET OF
10144517-044802LF**



BergStak® Lite 0.80mm Board-to-Board Connector

Extraordinary product range, Benchmark performance, Dual-source champion

ECONOMICAL OPTION FOR HIGH DENSITY APPLICATIONS

Amphenol's BergStak® Lite 0.8mm is a flexible solution designed for high speed and high density, parallel board-to-board connector system with 16 PCB stack heights in 4 sizes up to 100 positions.

- Housing and terminal profile guarantees support of up to 12Gb/s
- 40 to 100 position sizes in 20 position increments
- 5mm to 20mm stack heights in 1mm increments
- Gold flash plating on contact area supports 50 mating cycles for lower mating cycle application



TARGET MARKETS



FEATURES

- Housing and terminal profile guarantees support of up to 12Gb/s
- 40 to 100 position sizes in 20 position increments
- 5mm to 20mm stack heights in 1mm increments
- 0.80mm double-row contact pitch conserves printed circuit board space
- Scoop-proof housings
- Gold flash contact plating
- PCB locator pegs option
- Available in UL94V-0 flammability rated LCP
- RoHS compliant and lead-free

BENEFITS

- Compatible with PCIe Gen 2/3 and SAS 3.0 high speed performance on selected stack heights
- Comprehensive range of sizes and stack heights to satisfy all needs
- High density for all electrical applications needs
- Ensures terminals are not damaged during mating
- Economical option for applications that require less stringent requirements
- Facilitates ease and accuracy during manual assembly
- High flammability rating
- Meets environmental, health and safety requirements

*The PCIe® mark is a registered trademark of the PCI-SIG Corp

TECHNICAL INFORMATION

MATERIAL

- Housing: Glass filled LCP, UL94V-0
- Contact Base Metal
 - Receptacle: Copper Alloy
 - Plug: Copper Alloy
- Contact Area Finish: Gold flash over Nickel
- Solder Area Finish: Matte pure Tin over Nickel

MECHANICAL PERFORMANCE

- Durability: 50 mating cycles
- Mating Force: 0.9N max./contact
- Unmating Force: 0.1N min./contact

ELECTRICAL PERFORMANCE

- Insulation Resistance:
 - Initial: 1000M Ω min.
 - After Test: 100M Ω min.
- Current Rating: 0.5A/contact
- Contact Resistance:
 - Initial: 40m Ω max.
 - After Test: 60m Ω max.
- Voltage Rating: 100VAC
- Signal Integrity (Differential pairs, connector and SMT pads only)
 - Impedance Range: 81 to 108 Ω @ 50 ps edge (10-90%)
 - Return Loss: < 10dB up to 5GHz
 - Insertion Loss: < 1.5dB up to 5GHz
 - NEXT: \leq 4.0% for a 50 ps edge (10-90%)
 - FEXT: \leq 2.4% for a 50 ps edge (10-90%)

ENVIRONMENTAL

- Temperature Range: -40°C to +125°C
- High Temperature Life: 125°C \pm 5°C for 96 hours
- Humidity: 90-95% relative humidity for 96 hours
- Mixed Flowing Gas Class 2a: 5 days mated

APPROVALS AND CERTIFICATIONS

- UL E66906
- File no. LR46923

SPECIFICATIONS

- Product Specification: GS-12-1424

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



IP Phones



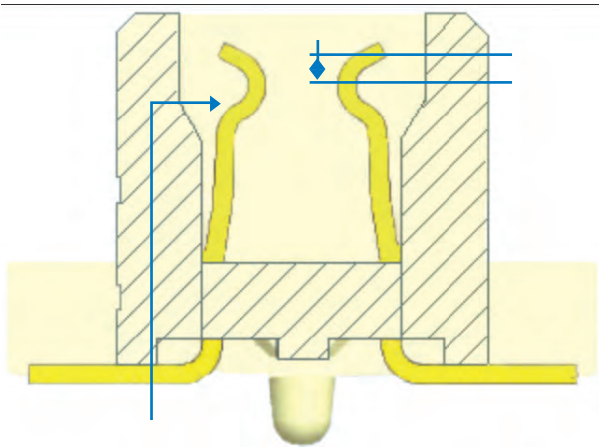
Drone



Measurement Equipment
Point-of-Sales (POS) Terminal
Portable Industrial Terminal
Security Systems
Test Equipment

▶ BergStak® Lite 0.80mm Board-to-Board Connector

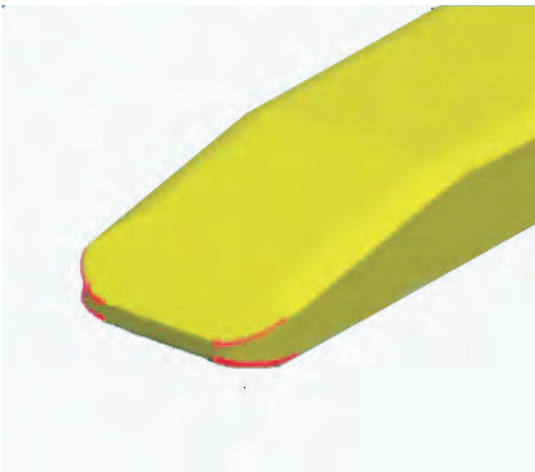
RECEPTACLE



Early-contact point allows early engagement/ late disengagement and increases mating wipe

Precision-tapered contacts control mating stress while providing reliable, high normal force

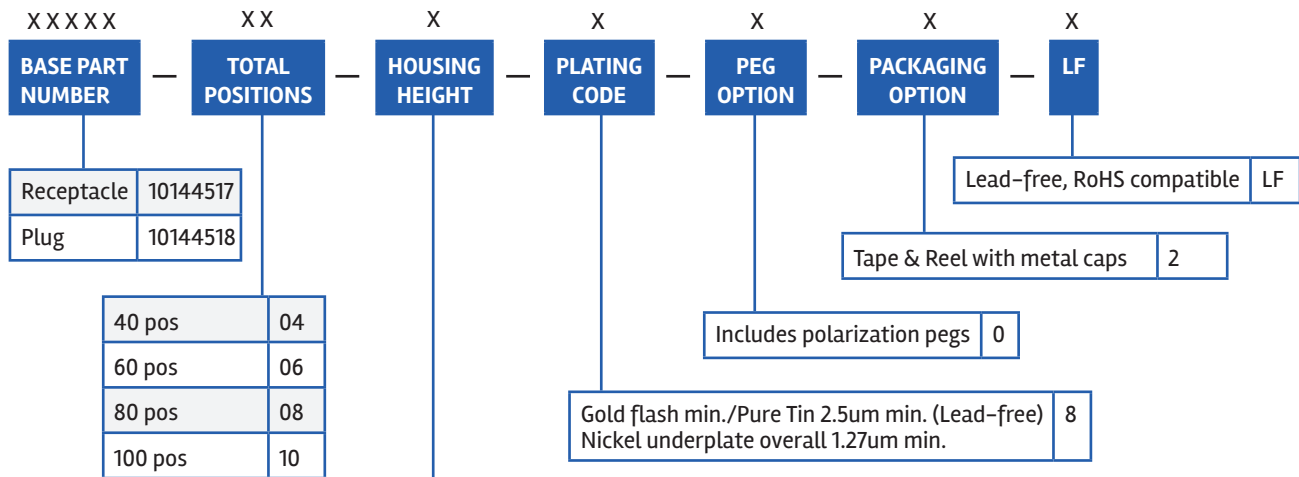
HEADER



Coined contact tips assure smooth, safe wiping action during connector mating

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PART NUMBER SELECTOR





X	FOR PLUG, SEE DWG. NO. 10144518			
COMBINATION OF MATED HEIGHT	Plug 1	Plug 2	Plug 3	Plug 4
Recep 1				
Recep 2				
Recep 3				
Recep 4				

BWBBERGLITE08018EA4

Looking for pricing, stock, or lifecycle information?

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