

Product Presentation



Agenda

- Value Proposition
- Product Overview
- Product specifications
- Features & Benefits
- Part Numbers
- Market Applications
- Collaterals

Value Proposition

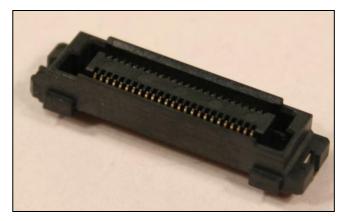


- BergStak HS[™] 0.50mm is a comprehensive and versatile solution designed for highdensity application able to cover the needs of different applications.
- Extension of standard BergStak[®] 0.80mm and BergStak+[™] 0.8mm offerings with the capability to support higher speed applications up to 25Gb/s.
- Has the ability to meet and exceed PCIe 3.0 & 4.0 industry standards.
- The BergStak HS[™] 0.50mm presently has a stack height of 12mm and 50 positions. We plan to include stack heights of 5mm and 8mm with positions up to 120 positions upon request.
- The unique Scoop-proof housing design of BergStak HS[™] 0.50mm solution prevents reverse mating which thus ensure terminals are not damaged during the mating. This design makes it suitable for High density and parallel board stacking applications for various applications.

Product Overview







Plug Overview



Receptacle Overview

Product Specifications

Amphenol FCi

Product Facts

- Speed up to 25Gb/s
- 50 position with options up to 120 positions
- 12mm stack height available now. Potential 5mm & 8mm
- Vertical mating configuration
- 0.50mm double-row contact pitch
- Scoop-proof housings
- Multiple plating options available
- RoHS compliant and lead-free
- PCB locator pegs option
- PCB Termination: SMT

Performance Characteristics

- Durability: 100 mating cycles
- Mating Force: 0.9N max./contact
- Unmating Force: 0.1N min./contact
- High Temperature Life: 105°C ± 5° for 500 hours
- Humidity: 90-95% relative Humidity for 96 hours
- Insulation Resistance: 100MΩ min.
- Current Rating: 0.5A/contact
- Voltage Rating: 50VAC
- Low-level Contact Resistance: 50mΩ max.

Specifications

- Product Specifications: TBD
- Application Specifications: TBD

Performance Characteristics

- Housing: Glass filled LCP UL94V-0
- Terminal:
 - Receptacle: Copper Alloy, High Spring
 - Plug: Copper Alloy
- Hold Down: Copper Alloy

Features & Benefits



Features	Benefits
 Support speed up to 25Gb/s 	 Able to meet and exceed PCIe 4.0 industry standards
 50 positions with options up to 120 positions 12mm stack heights with options for 5mm and 8mm stack heights 	 Wide range of sizes and stack heights to support different applications
 Vertical mating configuration 	 Suitable for parallel board stacking applications
 0.50mm double-row contact pitch conserves printed circuit board space 	 Small form factory suitable for high density board layout application
 Scoop-proof housings 	Ensure terminals are not damaged during mating
 Available in UL94 V-0 flammability rated LCP 	 High flammability rating
 PCB locator pegs option 	 Enables easy manual assembly
 Metal hold-down option 	 Ensures more retention force
 RoHS compliant and lead-free 	 Meets environmental, health and safety requirements

Part Numbers

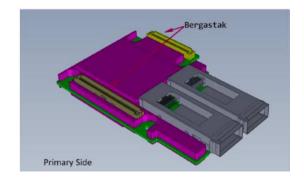


Description	Part Number
50 position, 8.22mm height plug connector	10138650-50P12EHLF
50 positioning, 3.77mm height receptacle connector	10138651-50REHLF

Main Markets & Applications

- Datacom/Telecom
 - Server
 - Storage
 - Open Compute Platform (Next Gen)
- Industrial and Instrumentation
 - Embedded Computer
 - Test Equipment
 - Measurement Equipment
- Medical Devices
 - MRI Machines
 - High Definition Scopes







Collaterals

- Available on Amphenol FCI website:
 - Technical Datasheet





THANK YOU