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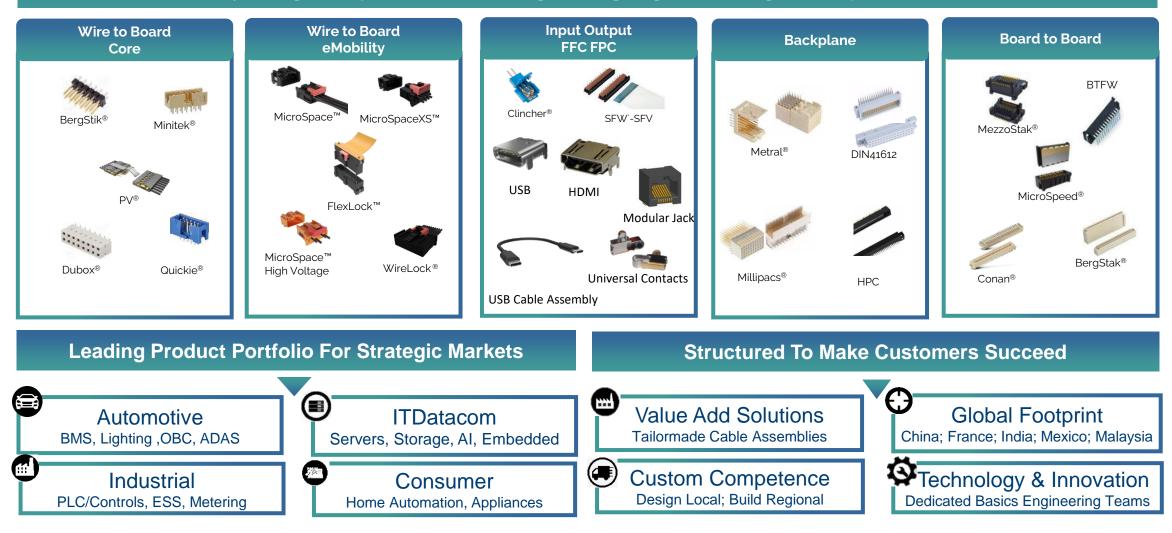
BergStak[®] 0.50mm Connector Presentation

≣FCi Basics

FCI Basics: The Amphenol PCB Interconnect Specialist



Industry recognized portfolio combining leading edge technologies and proven solutions





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Agenda: BergStak[®] 0.50mm Board to Board Connector



- Value Proposition
- Product Overview
- Product Specifications
- Features & Benefits
- Part Numbers
- Markets & Application
- Marketing tool



BergStak® 0.50mm - Value Proposition

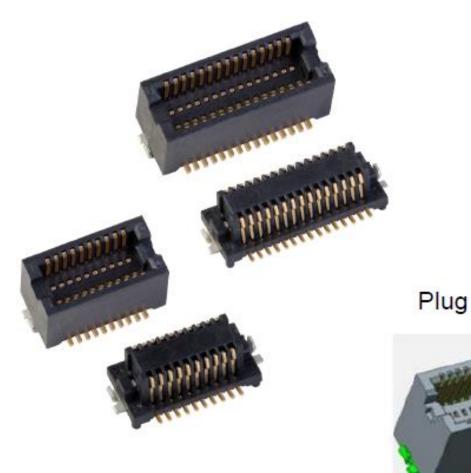
- BergStak[®] 0.50mm New Height is a comprehensive and versatile solution designed for high-density application able to cover all the needs.
- The BergStak[®] 0.50mm New Height presently has a stack height of 3-6mm with 10-80 positions, and 7-8.5mm with 10-100 positions
- BergStak[®] 0.50mm New Height is a double row, mezzanine connector system with surface-mount solder tails
- BergStak[®] 0.50mm New Height connectors are ideal for applications in the Consumer: Digital Video
 Camera; Industrial: Measurement Equipment, Mobile Payment Device, Point of Sales Equipment,
 Portable Industrial Terminal, Surveillance Camera; Medical: Medical Device



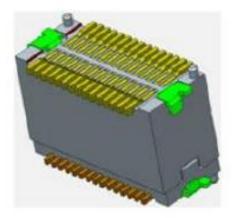
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BergStak® 0.50mm - Solution Overview

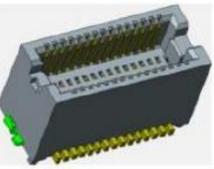
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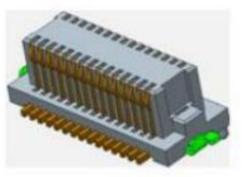
Intermating Overview



Plug Overview









BergStak® 0.50mm - Solution Overview

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Header for 4mm stack height P/N: 10165430-1 XXX 00LF Position(XXX): 010/020/030/040/050/060/070/080/090/100

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Header



BergStak® 0.50mm - Solution Overview

Receptacle



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Receptacle for 3mm, 3.5mm, 4.0mm, 4.5mm stack height P/N: 10165431-X XXX 00LF Height(X): 1: 3mm; 2: 3.5mm; 3: 4.0mm; 4: 4.5mm Position(XXX): 010/020/030/040/050/060/070/080/090/100

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BergStak® 0.50mm - Product Specifications

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Specifications

- Pitch: 0.50mm
- Positions:
 3-6mm height: 10 ~ 80pos
 7-8.5mm height: 10 ~ 100pos
- Termination: SMT
- Configurations: Vertical
- USCAR, UL E66906
- Speed: up to 2G/bps

Materials

- Housing: High temperature thermoplastic LCP, Black (UL94V-0)
- Terminal: Copper Alloy
- Hold down: Copper Alloy
- Plating: Gold Flash

Electrical Performances

- Operating Voltage Rating = 30 VDC
- Current Rating: 0.5A all contacts powered
- Durability: 50 mating cycles
- Insulation Resistance: 500MΩ min.

Mechanical Performance

- Durability: 50 cycles
- Mating Force: 1.47N max./contact
- Un-mating Force: 0.15N min./contact
- High Temperature Life: 85c+/-5c for 96 hours

Environmental

- Operating Temperature: -40°C to +125°C
- MFG:EIA 364-65 Class –IIA compatible

Packaging

Tape and reel

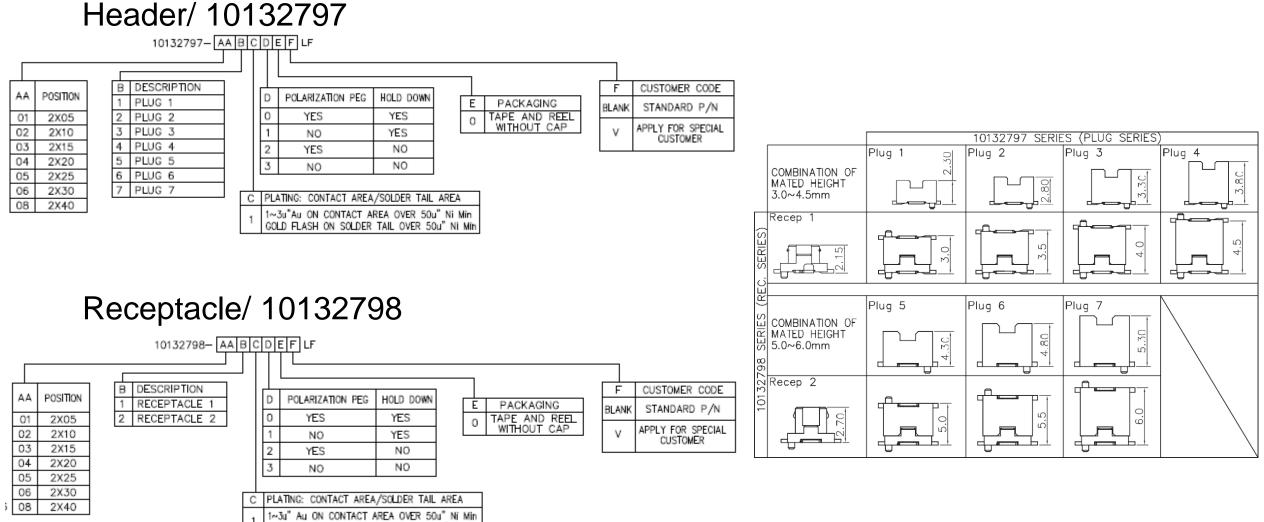


Features	Benefits
0.5mm double row contacts	High density connector, suitable for applications with space constraints
Scoop-proof housings	Ensures terminals are not damaged during mating
Locating pegs option	Eases manual assembly
3mm to 6mm stack heights in 0.5mm increments 10 to 80 positions in 10 position increments 7mm to 8.5mm stack heights in 0.5mm increments 10 to 100 positions in 10 position increments	Wide range of sizes and stack heights supports different applications
RoHS compliant, halogen and lead free	Meets environmental, health and safety requirements
UL94V-0 high temperature LCP material	With-stand harsh environment



BergStak[®] 0.50mm – Part numbers





GOLD FLASH ON SOLDER TAIL OVER 50u" Ni Min

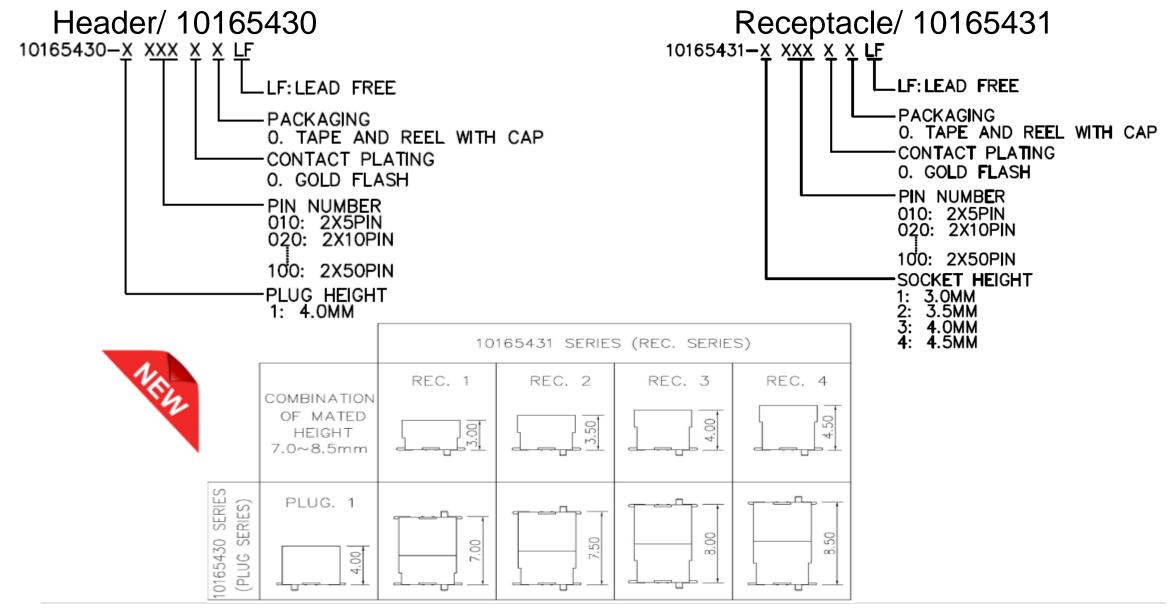
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BergStak[®] 0.50mm – Markets and Applications

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Consumer

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Digital Video Camera •



Industrial & Instrumentation

Point of Sales Equipment

Measurement Equipment

Mobile Payment Device

Surveillance Camera

- Medical
- Medical Device







Test Equipment

BergStak® 0.50mm - Marketing Tools

- Samples available (check with sample room Tatabanya : <u>samples.global@amphenol-eu.com</u>)
- Website quick link: <u>Landing Page</u>
- Available on website
 - Drawings
 - > 3D Models
 - Datasheet
 - Product specifications
 - Product presentation

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If you have any enquires, please contact to us: PM Contact: <u>Elyn.Mao@amphenol-fci.com</u> PLM Contact: <u>Feagle.Pan@fci.com</u>









