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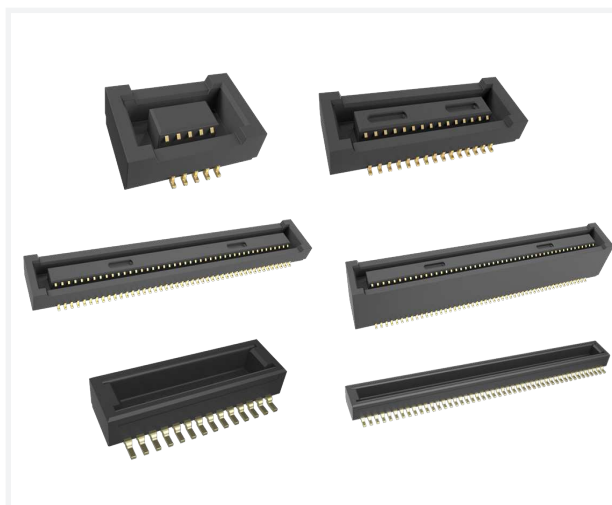
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BergStak® 0.40mm Connector

FINE PITCH/WIDE RANGE/ VIBRATION-PROOF/HIGH-SPEED BOARD-TO-BOARD CONNECTORS

The BergStak® 0.40mm board-to-board connectors are in 0.4mm pitch with double row contacts, the family now supports stack height of 1.50/2.0/3.0/3.5/4.0mm and position ranges in 10-100 positions (10/20/24/30/34/40/50/60/70/80/90/100). The lock feature on contacts works together with shock-absorbing ribs on the housing to make it suitable for high-vibration applications and friendly for FPC applications. Its high-speed performance makes it a good candidate for HS applications.

- Fine pitch of 0.4 mm with a wide range of heights: 1.50/2.0/3.0/3.5/4.0mm stack heights, supporting 10 to 100 positions
- The lock feature on the contact area provides higher reliability
- USCAR-2 V2 qualified
- High-speed performance: 16Gb/s (PCIe®/USB)
- Self-alignment feature to support FPC-to-Board applications



TARGET MARKETS



FEATURES

- Fine Pitch of 0.4mm
- Wide range in height and length 1.50/2.0/3.0/3.5/4.0mm stack height, 10-100position
- Lock feature on contact area
- Shock-absorbing ribs
- Mis-alignment feature
- High Speed performance(PCIe/USB.etc)
- Additional fix tap on the header

BENEFITS

- This space saving solution in line with the trend to utilize connector with smaller size, lower weight while keeping better performance
- Applicable for various applications
- Tactile sensing while mating in palce
- Provides higher reliability while working, friendly for FPC applications
- Withstands high level of vibration(USCAR2)
- Suit for those tasks where visual and tactile tools are compromised during mating process
- Supports applications need transfer HS signals
- To improve retention force with PCB(FPCB)

TECHNICAL INFORMATION

MATERIAL

- Housing: High-temperature thermoplastic LCP, Black (UL94V-0)
- Terminal: Copper Alloy, High spring
- Plating: Gold flash

ELECTRICAL PERFORMANCE

- Current Rating: 0.3A per contact (all contacts powered)
- Insulation Resistance: 50MΩ min.
- Voltage Rating: 30VAC/VDC
- LLCR: 90mΩ max.
- Data rate: 16Gb/s

MECHANICAL PERFORMANCE

- Mating and Un-mating Force: 0.9N max. and 0.1N min./contact
- Durability: 30 cycles
- Mechanical Shock and Vibration: USCAR-2 V2

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C
- Mixed Flowing Gas Corrosion: IEC 60512-11-7, Class -IIA

APPROVALS AND CERTIFICATIONS

- UL E66906

SPECIFICATIONS

- Product Specification: GS-12-1404

PACKAGING

- Tape and Reel

TARGET MARKETS/APPLICATIONS



Advanced Driver Assistance Systems (ADAS)



PC/Tablet
Smart Devices



Server/Storage

PART NUMBER SELECTOR

BASE NUMBER		AAA	B	C	D	E	LF
Description	Part Number				D Hold Down		Lead-free
Vertical Receptacle	10164227				1 Without		
Vertical Header	10164228						
		AAA Position	C Plating Options			E Packaging	
		010 10	A Gold flash			R Tape and Reel	
10/20/24/30/34/40/50/60/70/80/90/100			B Height Options				
			1 1.5mm stack height				
			3 3.0mm stack height				
			4 4.0mm stack height				10164227
			5 3.5mm stack height				
			6 2.0mm stack height				
			1 Support all stack height (1.5-4mm)				10164228

PART NUMBERS

Description	Part Numbers
BergStak® 0.4mm, 10position, Receptacle, 1.5mm stack height	10164227-0101A1RLF
BergStak® 0.4mm, 20position, Receptacle, 1.5mm stack height	10164227-0201A1RLF
BergStak® 0.4mm, 24position, Receptacle, 1.5mm stack height	10164227-0241A1RLF
BergStak® 0.4mm, 30position, Receptacle, 1.5mm stack height	10164227-0301A1RLF
BergStak® 0.4mm, 34position, Receptacle, 1.5mm stack height	10164227-0341A1RLF
BergStak® 0.4mm, 40position, Receptacle, 1.5mm stack height	10164227-0401A1RLF
BergStak® 0.4mm, 50position, Receptacle, 1.5mm stack height	10164227-0501A1RLF
BergStak® 0.4mm, 60position, Receptacle, 1.5mm stack height	10164227-0601A1RLF
BergStak® 0.4mm, 70position, Receptacle, 1.5mm stack height	10164227-0701A1RLF
BergStak® 0.4mm, 80position, Receptacle, 1.5mm stack height	10164227-0801A1RLF
BergStak® 0.4mm, 90position, Receptacle, 1.5mm stack height	10164227-0901A1RLF
BergStak® 0.4mm, 100position, Receptacle, 1.5mm stack height	10164227-1001A1RLF
BergStak® 0.4mm, 120position, Receptacle, 1.5mm stack height	10164227-1201A1RLF
BergStak® 0.4mm, 40position, Receptacle, 4mm stack height	10164227-0404A1RLF
BergStak® 0.4mm, 50position, Receptacle, 4mm stack height	10164227-0504A1RLF
BergStak® 0.4mm, 60position, Receptacle, 4mm stack height	10164227-0604A1RLF
BergStak® 0.4mm, 70position, Receptacle, 4mm stack height	10164227-0704A1RLF
BergStak® 0.4mm, 80position, Receptacle, 4mm stack height	10164227-0804A1RLF
BergStak® 0.4mm, 90position, Receptacle, 4mm stack height	10164227-0904A1RLF
BergStak® 0.4mm, 100position, Receptacle, 4mm stack height	10164227-1004A1RLF
BergStak® 0.4mm, 30position, Receptacle, 2.0mm stack height	10164227-0306A1RLF
BergStak® 0.4mm, 50position, Receptacle, 2.0mm stack height	10164227-0506A1RLF
BergStak® 0.4mm, 20position, Receptacle, 3.5mm stack height	10164227-0205A1RLF
BergStak® 0.4mm, 30position, Receptacle, 3.5mm stack height	10164227-0305A1RLF
BergStak® 0.4mm, 40position, Receptacle, 3.5mm stack height	10164227-0405A1RLF
BergStak® 0.4mm, 50position, Receptacle, 3.5mm stack height	10164227-0505A1RLF
BergStak® 0.4mm, 60position, Receptacle, 3.5mm stack height	10164227-0605A1RLF
BergStak® 0.4mm, 30position, Receptacle, 3.0mm stack height	10164227-0303A1RLF
BergStak® 0.4mm, 40position, Receptacle, 3.0mm stack height	10164227-0403A1RLF
BergStak® 0.4mm, 50position, Receptacle, 3.0mm stack height	10164227-0503A1RLF

Find part number details using the search box on www.amphenol-cs.com

PART NUMBERS

Description	Part Numbers
BergStak® 0.4mm, 60position, Receptacle, 3.0mm stack height	10164227-0603A1RLF
BergStak® 0.4mm, 10position, Header, 1.5mm&4mm stack height	10164228-0101A1RLF
BergStak® 0.4mm, 20position, Header, 1.5mm&4mm stack height	10164228-0201A1RLF
BergStak® 0.4mm, 24position, Header, 1.5mm&4mm stack height	10164228-0241A1RLF
BergStak® 0.4mm, 30position, Header, 1.5mm&4mm stack height	10164228-0301A1RLF
BergStak® 0.4mm, 34position, Header, 1.5mm&4mm stack height	10164228-0341A1RLF
BergStak® 0.4mm, 40position, Header, 1.5mm&4mm stack height	10164228-0401A1RLF
BergStak® 0.4mm, 50position, Header, 1.5mm&4mm stack height	10164228-0501A1RLF
BergStak® 0.4mm, 60position, Header, 1.5mm&4mm stack height	10164228-0601A1RLF
BergStak® 0.4mm, 70position, Header, 1.5mm&4mm stack height	10164228-0701A1RLF
BergStak® 0.4mm, 80position, Header, 1.5mm&4mm stack height	10164228-0801A1RLF
BergStak® 0.4mm, 90position, Header, 1.5mm&4mm stack height	10164228-0901A1RLF
BergStak® 0.4mm, 100position, Header, 1.5mm&4mm stack height	10164228-1001A1RLF
BergStak® 0.4mm, 120position, Header, 1.5mm&4mm stack height	10164228-1201A1RLF

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