Expanded product range

RELIABLE SOLUTION FOR HIGH DENSITY APPLICATIONS

Amphenol's BergStak® 0.5mm is a comprehensive and versatile board-to-board solution designed for reliable and high-density applications. The unique design of scoop-proof housing ensures terminals are not damaged during mating.

- 0.5mm double row contact for high density connector
- Scoop-proof housing ensures terminals are not damaged during the mating
- PCB locator pegs option helps to ease manual assembly



FEATURES

- 0.5mm double row contact
- Scoop-proof housings
- Metal hold-down option
- Locating pegs option
- 3mm to 6mm stack heights in 0.5mm increments, with 10 to 80 positions in 10 position increments
- 7mm to 8.5mm stack heights in 0.5mm increments, with 10 to 100 positions in 10 position increments
- 4 position expand to 6 and 8 position, with 6mm to 8.09mm stack heights
- Available in UL94 V0
- RoHS compliant and lead-free
- USCAR-2 V2 shock and vibration qualified

BENEFITS

- High density connector
- Ensures terminals are not damaged during mating
- Higher retention force
- Eases manual assembly
- Wide range of sizes and stack heights supports different applications
- High flammability rating
- Meets environmental, health, and safety requirements
- Suitable for automotive applications

TECHNICAL INFORMATION

MATERIAL

 Housing: High temperature thermoplastic UL94V-0, LCP

• Terminal: Copper Alloy

• Metal Hold-down: Copper Alloy

• Plating: Gold Flash

MECHANICAL PERFORMANCE

• Mating Force: 1.47N per pin max.

• Unmating Force: 0.15N per pin min.

• Retention Force: 0.98N per pin min.

• Durability: 50 mating cycles

Shock and Vibration: USCAR-2 V1

ELECTRICAL PERFORMANCE

 Current Rating per Contact: 0.5A per contact with all pins powered; 1A min @ 4 Pin

• Insulation Resistance: 500M Ω min.

Voltage Rating: 50VAC

Speed: Up to 2Gb/s

ENVIRONMENTAL

Salt Spray Test:

■ 5±1% salt concentration 48 ± 4 hours 35 ± 2 °C

■ Thermal Shock: -65°C to +125°C

■ High Temperature: 85 ± 2 °C for 96 hours

• Humidity:

■ Temperature: 40 ± 2 °C 96 hours

■ Relative Humidity: 90-95%

■ Duration: 96 Hours

SPECIFICATIONS

Product Specification:

■ 10132797/10132798: GS-12-1298

■ 10166148/10166149: GS-12-1298

■ 10165430/10165431: GS-12-1953

PACKAGING

■ Tape & Reel

TARGET MARKETS/APPLICATIONS



Automotive ADAS



Digital Video Camera



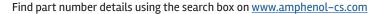
Measurement Equipment Mobile Payment Device Point of Sales Equipment Portable Industrial Terminal Surveillance Camera

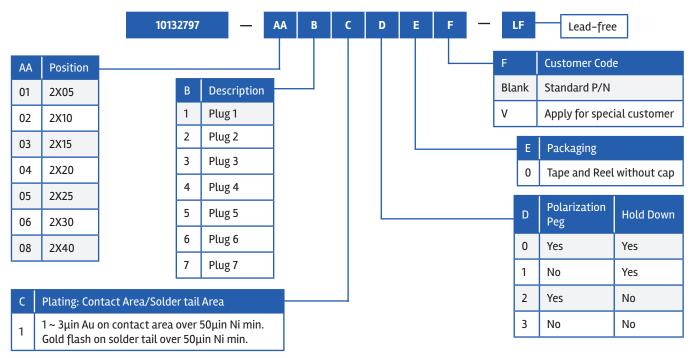


Medical Device

PART NUMBERS – 3–6MM HEIGHT

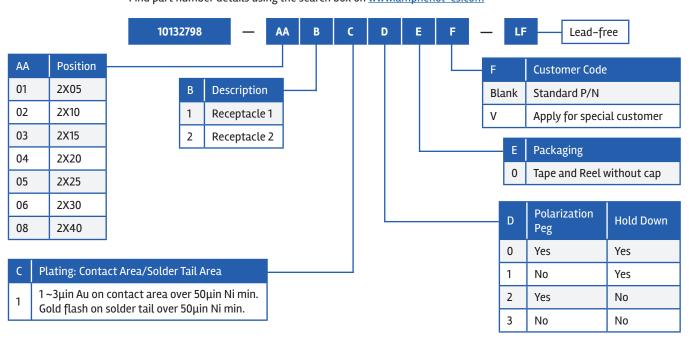
PART NUMBER SELECTOR - HEADER



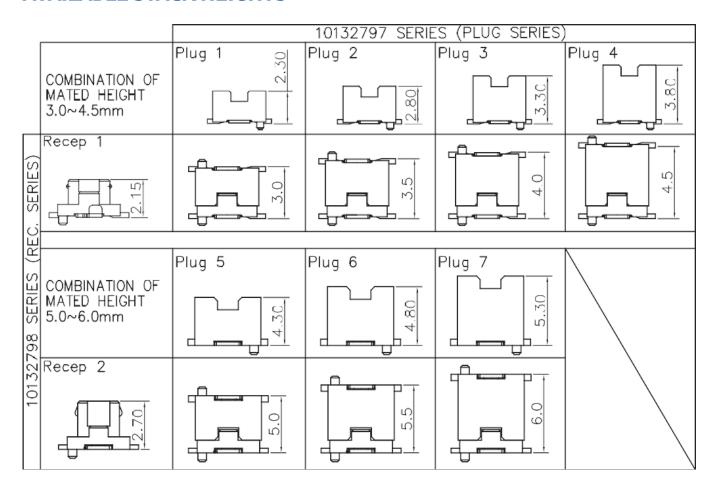


PART NUMBER SELECTOR – RECEPTACLE

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



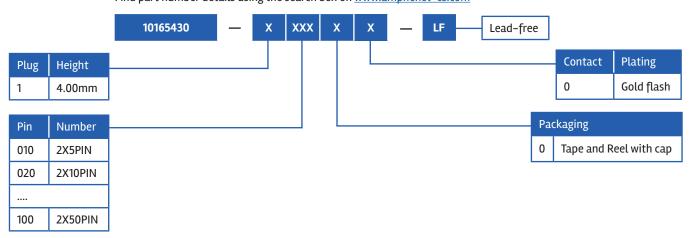
AVAILABLE STACK HEIGHTS



PART NUMBERS - 7-8.5MM HEIGHT

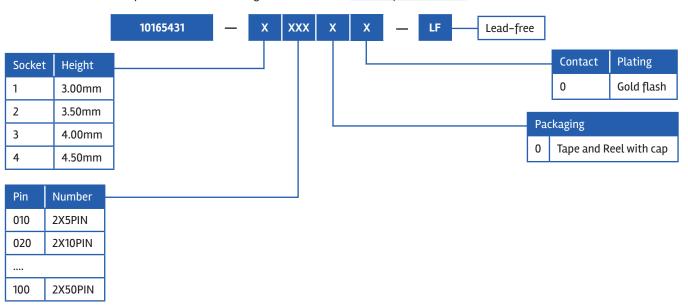
PART NUMBER SELECTOR – HEADER

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



PART NUMBER SELECTOR – RECEPTACLE

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

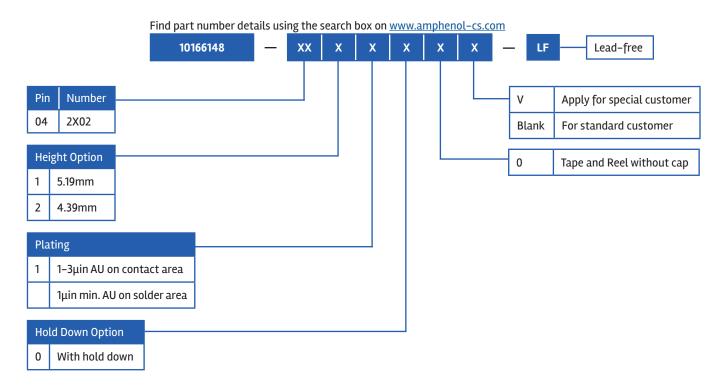


AVAILABLE STACK HEIGHTS

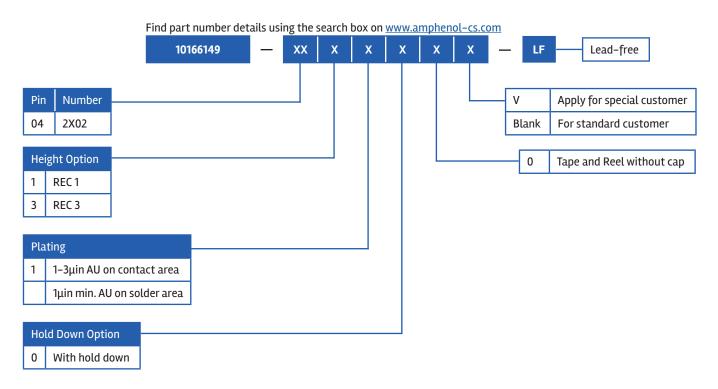
		10165431 SERIES (REC. SERIES)			
	COMBINATION OF MATED HEIGHT 7.0~8.5mm	REC. 1	REC. 2	REC. 3	REC. 4
		3.00	3.50	4.00	4.50
10165430 SERIES (PLUG SERIES)	PLUG. 1		7-4	T	7-77
	4.00	7.00	7.50	3.00	8.50

PART NUMBERS - LOW PIN COUNT

PART NUMBER SELECTOR - HEADER



PART NUMBER SELECTOR – RECEPTACLE



AVAILABLE STACK HEIGHTS

