

# AgilLink™ 2.0mm Wire-to-Board (G861, G861B Series)

## CUSTOMIZABLE SHROUDED WIRE-TO-BOARD HEADER

AgilLink™ 2.0mm Wire-to-Board is the most common solution for transferring power and signal. This series can carry a maximum current rating of 2A~3A. Amphenol offers a comprehensive range of these headers including V/T DIP, V/T SMT, R/A DIP, and R/A SMT to meet various customer requirements. It comes with customizable sizes for pin length, latch, or location post, which makes it an ideal choice for several applications and specific designs.

- Flexible and easy to change pin lengths to meet various application requirements
- Accommodates wire range up to AWG#22~30
- Latch or post option
- Supports PiP process
- Easy pin insertion and high retention force onto PCB



## FEATURES

- Customizable pin length
- Various mounting options including vertical DIP, right angle DIP, vertical SMT and right angle SMT
- High temperature thermoplastic material
- Tape and reel packaging option
- Stand-off design
- Latch option
- Mates with Header WTB G861, G862H/C, G871H/C & G875H/C
- RoHS compliance and halogen-free

## BENEFITS

- Suitable for different application and specific designs
- Ease in choosing board mating configurations
- Reflow compatible
- Supports PiP process
- Ease of cleaning the PCB
- Ease for mating and unmating
- Mutually compatible for wire-to-board or board-to-board
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High temperature thermoplastic, UL94V-0
- Contact: Copper Alloy, selective Gold or Tin plating on contact area, Gold flash or Tin plating on solder tail and Nickel under-plated overall

### MECHANICAL PERFORMANCE

- Contact Retention Force: Base on individual P/N
- Durability: 30 cycles
- Insertion Force: Base on individual P/N
- Withdrawal Force: Base on individual P/N
- Vibration: 1µs max., EIA 364-28
- Mechanical Shock: 1µs max., EIA 364-27

### ELECTRICAL PERFORMANCE

- Current Rating: 2~3A AC/DC
- Voltage Rating: 50VAC/VDC
- Temperature: -40°C to +85°C
- Contact Resistance: 20mΩ max.
- Insulation Resistance: 100MΩ min.

### PACKAGING

- Tape and reel
- Bag
- Packaging Specification: PKSVNT0XX

### ENVIRONMENTAL

- Thermal shock: a) -55°C ~ 30 minute. b) +85°C ~ 30 minute, 10 cycles, EIA 364-32
- Humidity: 60°C, 90~95%RH, 240 hours, EIA 364-31
- Heat Resistance: 85°C, 96 hours, EIA 364-17
- Cold Resistance: -40°C, 96 hours, EIA 364-17
- Solderability: 95% min. solder coverage, EIA 364-52
- Resistance to Soldering Heat: Peak temperature: 260°C max., 10 seconds max.

### TARGET MARKETS/APPLICATIONS



Communications



Consumer



Server Storage



Industrial & Instrumentation



Medical

## PART NUMBERS

Part Numbers	Description	3D	2D
G86106111YEU	Protect Header 2.0mm Pitch STR DIP, 1x6Pin, Matte Tin, NY66, Kink Tail, Color-White, Bag	G86106111YEU	G861XXX1XYEU
G862H061AEU	G862 Series, 2.0mm Pitch, Cable Side Housing, 1x6Pin, Crimping Type, NY66, Color-White, Bag	G862H061AEU	G862HXX1AEU
G861F04131TEU	Protect Header 2.0mm Pitch STR SMT, 1x4Pin, Matte Tin, NY9T, Color-White	G861F04131TEU	G861FXX13XTEU
G862H041TEU	G862 SERIES, Cable Side Housing, 2.0mm Pitch, Crimping Type, 1x4Pin, NY66, Color-Natural, Bag	G862H041TEU	G862HXXXTEU
G861B08112T9HR	Protect Header 2.0mm Pitch STR DIP, 2x4Pin, Matte Tin, NY4T, Tail=2.0mm, Color-Black, Tray, Halogen-free	G861B08112T9HR	G861BXXX1XT9HR
G862AH082T3EU	G862 Series, 2.0mm Pitch Cable Side Housing, 2X4Pin, NY66, Color-Black, Halogen-free	G862AH082T3EU	G862AHXXXT3EU

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