

# Zero-Hachi 0.80mm Pitch Wire-to-Board Connector System >

The Zero-Hachi connector's fine pitch, low-profile height and extensive circuit size range address the concerns of shrinking electronic device space across industries. The connector's dual-point contact feature enhances electrical reliability during operation



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## FEATURES AND ADVANTAGES

### Fitting Nail

Provides robust PCB retention and protects the connector against breakage when wires are wrenched upward

1.60mm

### Low-Profile Height (1.60mm)

Enables engineers to design slimmer devices

### Dual-Point Contact Design

Secures the connector's electrical contact

### Friction Lock on Crimp Housing

Offers better mating retention and reliability of header and harness

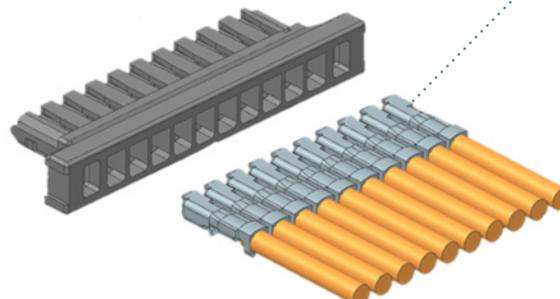
### U-Shaped Crimp Terminal

Guides crimp terminal insertion to the connector housing in the correct direction



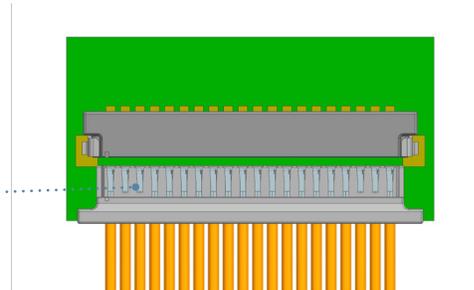
### Easy-to-Grip Design Feature

Facilitates easy handling during mating or unmating processes



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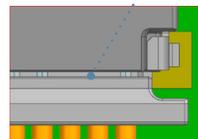
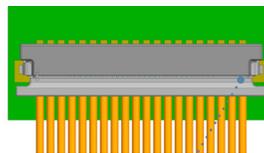
## FEATURES AND ADVANTAGES



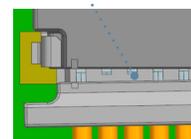
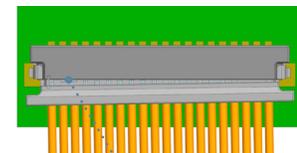
### 'Checking-Mark' Feature on Crimp Housing

Aids in checking if the connector is fully mated

*Proper Mating*



*Improper Mating*



When the terminal contacts are not exposed, it indicates the crimp housing is completely mated to the receptacle

The exposed terminal contacts indicates the crimp housing is not completely mated to the receptacle.

## APPLICATIONS

### Consumer

AR/VR devices  
Gaming headsets

### Mobile Devices

Tablet PCs  
Wearable devices

### Connected Home

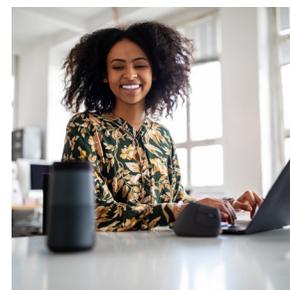
Smart speakers  
Doorbells

### Industrial

Drones  
UAVs



*Drones*



*Smart Speakers*



*Wearables*

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## SPECIFICATIONS

### REFERENCE INFORMATION

#### Packaging:

Header: Embossed Tape  
Housing: Bag  
Terminal: Reel

Designed In: Millimeters

RoHS: Yes

Halogen Free: Low-Halogen

### ELECTRICAL

Voltage (max.): 30V

Current (max.): 1.5A (2 to 6 circuits)  
1.0A (7 to 20 circuits)

### PHYSICAL

Header Housing: LCP

Housing: LCP

Contact: Corson Copper Alloy

#### Plating:

Contact Area—Tin (Sn)

Underplating—Nickel (Ni)

Operating Temperature: -40 to +85°C

## ORDERING INFORMATION

### CRIMP TERMINALS

| Order No.                   | Plating  | Description     | Wire Range (AWG) |
|-----------------------------|----------|-----------------|------------------|
| <a href="#">214720-5001</a> | Tin (Sn) | Crimp terminals | 30 to 32         |
| <a href="#">214720-5000</a> |          |                 | 28 to 30         |

### HEADER AND CRIMP HOUSINGS

| Order No.                   | Plating  | Description               | Wire Range (AWG) |
|-----------------------------|----------|---------------------------|------------------|
| <a href="#">214719-2xx0</a> | N/A      | Crimp housing, single row | 2 to 20          |
| <a href="#">214721-0xx0</a> | Tin (Sn) | Right-angle header        |                  |

Note: xx = 2 to 20 circuits

### NEW

|                            |   |
|----------------------------|---|
| 214721<br>214719<br>214720 | Right-Angle Single-Row Header<br>Crimp Housing<br>Crimp Terminal          |
| Category                   | Wire-to-board Connectors  |
| Current                    | 2.5A (2 circuits), 1.5A (6 circuits), 1.0A (20 circuits) for AWG 28 wires |
| Pitch                      | 0.80mm  |
| Height                     | 1.60mm  |
| Circuits                   | 2 to 20   |

[www.molex.com/link/zero-hachi.html](http://www.molex.com/link/zero-hachi.html)