DATASHEET

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, while the connector's dual-point contact feature enhances electrical reliability during operation.

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

FEATURES AND ADVANTAGES

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

he fitting nail helps prevent movement or loosening caused by vibration, stress on the solder joints and connector housing minimizing the risk of damage or breakage while maintaining durability and electrical performance.

Prevents electrical disconnections due to vibration, movement, or mechanical stress

The dual-point contact design secures the connector's electrical contacts, improving contact reliability and reducing the risk of signal loss.

Enables slim device designing

A low-profile height (1.60mm) overcomes space constraints by providing connectors a smaller footprint and a reduced profile for miniaturized devices.

Category	Wire-to-board Connectors	
Current (for 28 AWG wires)	Tin plating: 2.5A (2 circuits), 1.2A (6 circuits), 1.0A (20 circuits)	Gold plating: 2.5A (2 circuits), 1.5A (6 circuits), 1.2A (20 circuits)
Pitch	0.80mm	
Height	1.60mm	
Circuits	2 to 20	

Offers exceptional mating retention and reliability of header and harness

A robust system with friction lock on the crimp housing mitigates accidental disengagement or poor mating, reducing maintenance requirements or failure downtime.

Provides outstanding electrical performance with robustness

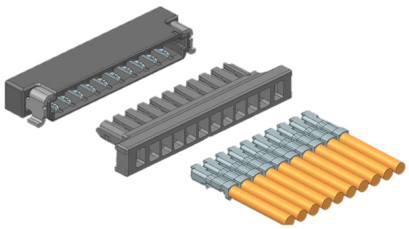
A gold-plating version improves conductivity and signal integrity with low contact resistance, mitigating signal loss and ensuring reliable connections.

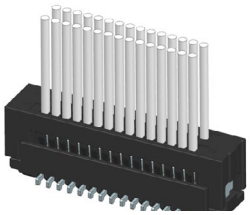
Facilitates easy handling during mating and un-mating

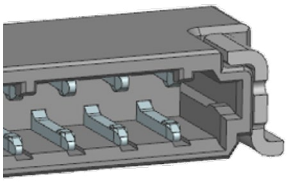
The easy-to-grip design helps prevent slipping and improper force application, decreasing the risk of connector damage.

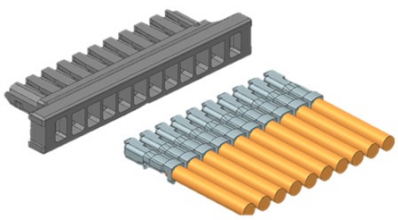
Improves assembly efficiency

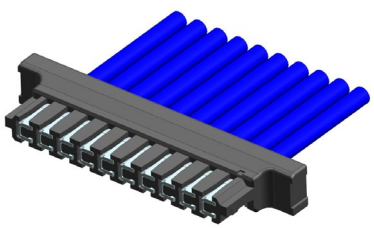
To avoid misalignment, the U-shaped crimp terminal guides insertion into the connector housing, minimizing assembly errors and enabling quick operation.











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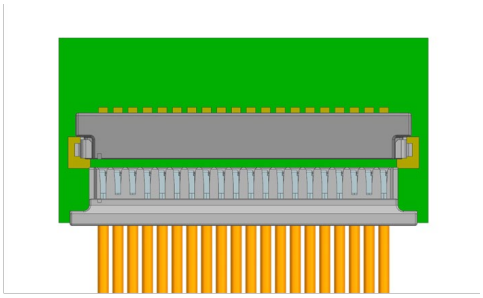
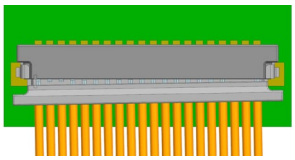
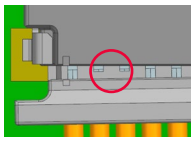
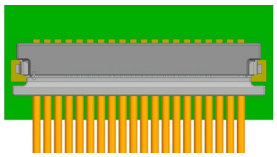


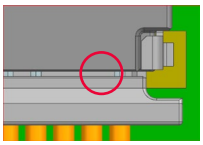
Improper Mating





Proper Mating





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

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

Note: The exposed spaces in the red circles indicates the crimp housing is not completely mated to the receptacle. The indicator not only applies to right-angle, single-row connectors with 11 to 20 circuits but to other larger circuit sizes as well.

APPLICATIONS

Mobile Devices
AR/VR devices
Drones
Gaming headsets
Smart speakers
Tablet PCs
UAVs
Wearable devices

Wearables
AR/VR devices
Fitness trackers
Headsets
Medical monitoring devices
Smart glasses
Wrist-worn devices

Drones

AR/VR Devices

Connected Home Equipment

Wireless Infrastructure
Connected home equipment
Home cameras
Television remote controls

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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.):
- 2.5A (2 circuits)
- 1.5A (6 circuits)
- 1.2A (20 circuits)
- For 28 AWG wires

Physical

Header Housing: LCP
Housing: LCP
Contact: Corson copper alloy
Plating:
- Contact Area—Gold, tin
- Underplating—Nickel

Operating Temperature: -40 to +105°C

ORDERING INFORMATION

Crimp Terminals

Order No.	Plating	Description	Wire Range (AWG)
214720-5001	Tin	Crimp terminals	32 to 30
214720-5000			30 to 28
214720-5011	Gold	Crimp terminals	32 to 30
214720-5010			30 to 28

Header and Crimp Housings (Single Row)

Order No.	Plating	Description	Circuit Sizes
214719-2xx0	N/A	Crimp housing	2 to 20
214721-0xx0	Tin	Right-angle header	
214719-2xx0	N/A	Crimp housing	2 to 20
214721-0xx1	Gold	Right-angle header	

Header and Crimp Housings (Dual Row)

Order No.	Plating	Description	Circuit Sizes
224141-2xx0	N/A	Crimp housing, vertical	8 to 30
224142-0xx0	Tin	Vertical header	

Order No. 987652-4491 Rev.3 USA/0k/GF/2025.11