DATASHEET

PowerWize 3.40mm Interconnects›

Leveraging our Coeur socket technology, PowerWize Interconnects offer a 3.40mm size with various features and deliver power efficiency that is critical for cost management. Available in free-hanging and panel-mount housings, and right-angle or vertical pin-in-paste reflow SMT capable headers, these high-power connectors are designed for manufacturing flexibility and exceptional electrical performance.

ADVANTAGES AND FEATURES

Provides optimal current-carrying capacity

Multiple contact beams help ensure low contact resistance, low voltage drop and minimal heat generation at the contact interface.

Offers finger touch-safe headers and receptacles

These connectors are designed per UL 60950 to isolate the crimp contacts and to prevent accidental contact with an energized circuit.

Helps ensure secure mating and helps prevent cable assemblies from disengaging headers due to shock, vibration or mishandling

Positive-locking headers and receptacles afford Operators tactile and audible feedback during system integration.

Enables increased design flexibility for simplified assembly and lower cost

Free-hanging plug housing allows for easier cable routing, connecting and disconnecting during assembly; panel-mount housing provides secure mating for connection stability and durability.

Current	8 AWG-56.0A 10 AWG-42.0A
Voltage	600V
Durability (min.)	200 mating cycles
Operating Temperatures	-40 to +125°C

Helps prevent mis-mating white/natural receptacles to black headers and the reverse

These connectors are mechanically keyed and color-coded connectors for geometric differences between the black and white/natural connectors; Ideal when multiple cable assemblies are used in the same application.

Offers design/manufacturing flexibility

Crimp contacts are offered in two wire gauges so customers can match their application's current-carrying need with the optimal wire size to minimize cable assembly cost and still deliver the required power; headers are designed for pin-in-paste SMT reflow processing and/or wave solder processing.

Helps prevent mounting black headers in PCB locations designed for white/natural headers and the reverse

Polarized and color-coded connectors allow position differences between the black and white/natural header polarizing pegs; ideal when multiple headers are used in the same application.

Meets current and future legislative requirements, avoiding the need for costly redesigns when laws change

These connectors are low halogen compliant, reducing toxic emissions and corrosion risk for improved safety and reliability.



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MARKETS AND APPLICATIONS

Industrial Automation
Battery farms
Factory equipment
Robotics

Networking
Circuit breakers
Data storage units
Enterprise switches
Power distribution units (PDUs)
Routers
Servers
UPS/battery storage units

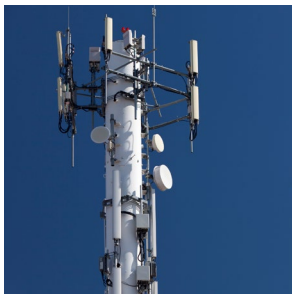
Telecommunications
5G/6G Base Stations
Data storage units
Digital cross connect switches
Network routers
Power distribution units (PDUs)
Servers
Uninterruptable power supplies (UPSs)



Servers



Factory Equipment



5G/6G Base Stations

SPECIFICATIONS

Reference Information
Packaging:
  Female Crimp Contact: Tray
  Receptacle Housing: Bag
  Header: Tray or tape-and-reel
Use With: Printed circuit boards
Designed In: Millimeters
RoHS: Compliant
REACH: Compliant
Low-halogen: Compliant
Flammability: UL 94V-0

Packaging (3.40mm Size):
  Male Crimp Contact (8 and 10 AWG): Tray
  Free-hanging Plug Housing: Bag
  Panel-mount Plug Housing: Bag
UL File No.: Pending
CSA File No.: Pending
Use With: Cable assemblies
Designed In: Millimeters

Physical
Receptacle Housing: PBT
Header Housing: LCP
Contact: Copper alloy
Plating:
  Socket contact area—gold
  Pin—silver
PCB Thickness (min.): 1.58mm
Operating Temperatures: -40 to +125°C

Electrical (3.40mm Size)
Voltage (max.): 600V
Current (max.): 8 AWG-56.0A
10 AWG-42.0A
Contact Resistance (max.): 0.25 milliohms

Mechanical (3.40mm Size)
Two-Circuit Connector Mating Force (max.): 45N
Two-Circuit Connector Un-mating Force (min.): 10N
Durability (min.): 200 mating cycles

Electrical (6.00mm Size)
Voltage (max.): 1,000V
Current (max.): 120.0A
Contact Resistance (max.): 0.25 milliohms

Mechanical (6.00mm Size)
Whole Connector Mating Force (max.): 75N
Whole Connector Un-mating Force (min.): 10N
Durability (min.): 200 mating cycles

Electrical (8.00mm Size)
Voltage (max.): 1,000V
Current (max.): 175.0A
Contact Resistance (max.): 0.20 milliohms

Mechanical (8.00mm Size)
Whole Connector Mating Force (max.): 110N
Whole Connector Un-mating Force (min.): 20N
Durability (min.): 200 mating cycles

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