

SENTRALITY RIGHT-ANGLE PIN AND SOCKET INTERCONNECTS

Adding high-voltage, high-current 6.00mm right-angle pin assemblies and 6.00 and 8.00mm right-angle socket assemblies to the Sentrality Interconnect Family: Sentrality connector assemblies help mitigate tolerance stack-up issues that can cause misalignment, mechanical stress and mating difficulties. These problems hinder proper engagement, damage connectors and ultimately lead to failed electrical connections. Sentrality interconnects offer a dependable solution to overcome these challenges for excellent performance.

NPI ENHANCEMENT

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Sentrality Right-Angle Pin and Socket Interconnects

Sentrality Right-Angle Pin and Socket Interconnects enable co-planar, offset-planar and reverse-planar mating configurations, while providing a +/- 1.00mm self-aligning feature on the socket assemblies to mitigate tolerance stack-up issues. With Sentrality pin and socket assemblies, manufacturers can have the design flexibility they need and achieve high electrical performance in their products.

- Key Product Information

Category:	High-Power Solutions
Current:	6.00mm-120.0A; 8.00mm-200.0A
Pitch:	6.00 and 8.00mm
Operating Temps:	-40 to +125°C



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Series

220413	6.00mm Right-Angle Socket Assembly
220409	6.00mm Right-Angle Pin Assembly
205100	8.00mm Right-Angle Socket Assembly

Vital Product Information

Sentrality Right-Angle Pin and Socket Interconnects

What makes this product different from the competition?

Sentrality Pin and Socket Interconnects' self-aligning socket assemblies are designed to float between low-friction wave springs that allow them to self-align radially (360° freedom) +/- 1.00mm during mating. The tolerance stack-up issues that are significant customer concerns are mitigated by the product's radial movement.

How does this product/solution create value for our customers?

Sentrality Pin and Socket Assemblies offer design flexibility with various sizes [3.40mm (75.0A), 6.00mm (120.0A), 8.00mm (200.0A) and 11.00mm (350.0A)] and transmit current between printed circuit boards and/or busbars with minimal heat generation at the contact interface.

What is the Molex advantage?

The Sentrality Interconnect System addresses customer's high-current (75.0 to 350.0A) transmission needs between parallel boards and/or parallel busbars. Molex Sentrality products are suitable for customers in many diverse market including data centers, base stations, alternative energy and battery storage and robotics.



Markets and Applications

Sentrality Right-Angle Pin and Socket Interconnects



Servers



Inverters

DATA CENTERS

- Enterprise switches
- Servers
- Data storage units
- Power shelves
- Power distribution units (PDUs)
- Uninterruptible power supplies
- Environmental control equipment

INDUSTRIAL AUTOMATION

- Battery charging stations
- DC-to-AC inverters
- AC-to-DC rectifiers
- Robotics

Product Advantages and Features

Sentrality Right-Angle Pin and Socket Interconnects

Allows manufacturing flexibility when attaching the connectors to a printed circuit board
Sentrality interconnects are wave solder process and reflow solder process capable.

Assures the right-angle socket assemblies and right-angle pin assemblies are placed in the correct position and are properly oriented on the printed circuit board
The unique solder tail patterns for each size and gender polarizes the connectors PCB footprints.

Enables right-angle PCB-to-PCB and PCB-to-busbar mating configurations
Pin assemblies and socket assemblies are positioned to attach to PCBs with a right-angle orientation.

Mitigates tolerance stack up issues
These socket assemblies are designed to float and self-align radially +/- 1.00mm during mating.



Key Specifications	
Current	75.0 to 350.0A
Voltage	1,000V
Durability (min.)	200 mating cycles
Operating Temperatures	-40 to +85°C



THANK YOU

creating connections for life

molex