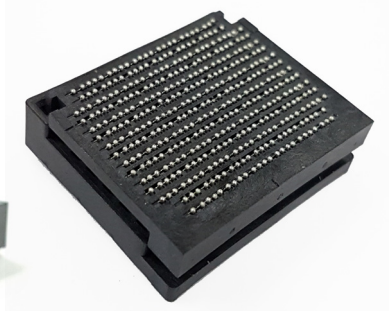
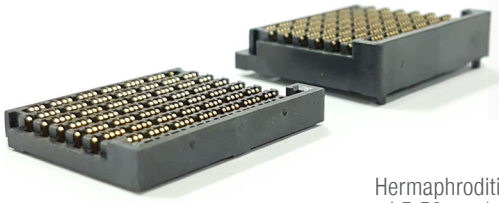
Mirror Mezz Connectors

molex

Footprint-compatible Hermaphroditic Mirror Mezz connector lowers application costs with stackable mating to support data speeds up to 56 Gbps per differential pair for telecommunications, networking and other applications

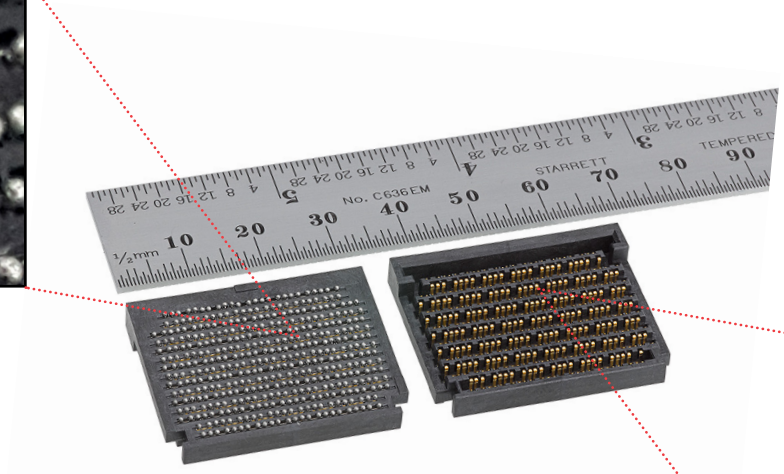




Hermaphroditic Mirror Mezz Connectors in 2.50 and 5.50mm (prototype only) height configurations (Remark: Picture on the right shows a 2.50mm connector mated to the 5.50mm version)

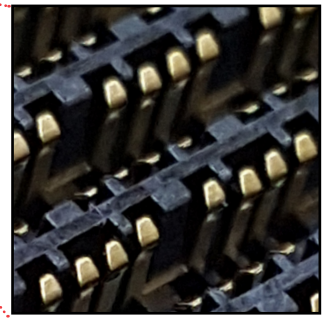
Features and Benefits

Stitched BGA design
Offers more cost savings than insert-molded BGA attachments. Stitched contact structure reduces lead-times and the connector design allows for simplified product matrix



Bottom (left) and top-side (right) perspectives of the 2.50mm height Mirror Mezz Connector

Intricately designed terminal structure
Provides numerous mechanical strengths while also benefiting from cutting-edge electrical features for some of the faster speeds in the industry



Applications

Data/Computing
- Server
- Networking
- Storage

Telecommunications/Networking
- Infrastructure
- Networking

Storage

Networking

Mirror Mezz Connectors

molex

Specifications

REFERENCE INFORMATION
Reference Information
Packaging: Tape and Reel
Mates With: 2.50 and 5.50mm height connectors can self- or cross-mate.
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: NA

ELECTRICAL
Voltage (max.): 30V AC
Current (max.): 1A per contact
Low Level Contact Resistance (max. initial): 30 milliohm for 5mm stack height
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 1000 Megohm
Impedance: 92 ohms

MECHANICAL
Average Mating Force: 0.5N per pin (max.)
Unmating Force: 0.045N per pin (min.)
Contact Normal Force (min.): 0.2N per pin
Durability (max.): 100 cycles

PHYSICAL
Housing: High Temperature Thermoplastic, UL94-V0
Contact: High Performance Copper Alloy
Plating: Selective Gold
Contact Area — 0.76 micron Gold (Au)
Solder Tail Area — 2.54 micron Tin (Sn)
Underplating — 1.27 micron Nickel (Ni)
Operating Temperature: -55 to 105°C

Ordering Information

Series No.	No. of rows	No. of differential pairs per row in Zone 1, 2 and 3	Total No. of differential pairs (excluding orphan pair)	Total No. of orphan pairs	Dimension
202828	Refer to Sales Drawings				

www.molex.com/link/mirrormezz.html

Order No. 987651-7972 APS/0k/GF/2018.05