

SlimStack Board-to-Board Connectors, 0.40mm Pitch and 0.80mm Pitch, Battery Series

molex

Achieve up to 10.0A of power and electrical reliability in an ultra-compact design with SlimStack Hybrid Power Connectors, designed for battery and other power applications.

As consumers continue to demand smaller devices and bigger current value, the need for microminiature designs grows. Hybrid connectors deliver design flexibility while meeting tight-packaging needs.

Features and Advantages

Delivers up to 10.0A power

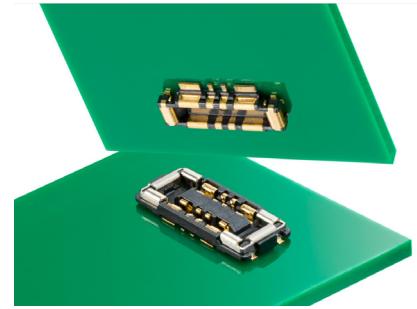
Meets the growing power needs of tight-packaging applications

Dual-contact design for both power and signal contacts

Assures contact reliability

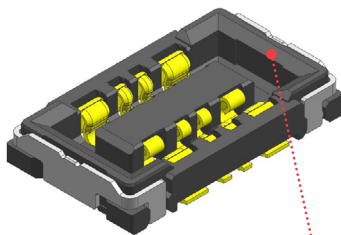
Compact hybrid interface with power and signal contacts

Combines extra signal lines into power connector footprint for space savings

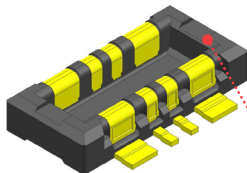


Delivers up to 6.0A

Receptacle 505004 Series

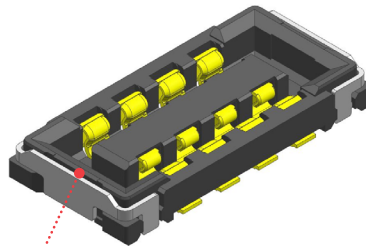


Plug 505006 Series

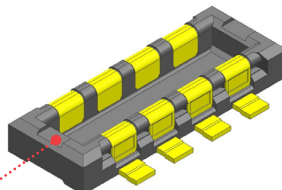


Delivers up to 9.0A

Receptacle 104249 Series

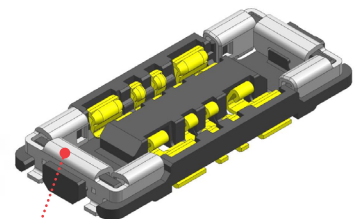


Plug 104250 Series

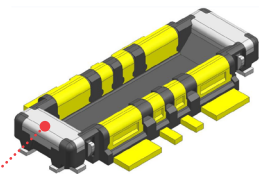


Delivers up to 10.0A

Receptacle 505473 Series



Plug 505476 Series



Wide Alignment Area

Provides easy and secure mating

Armor Nail

Prevents damage to the housing

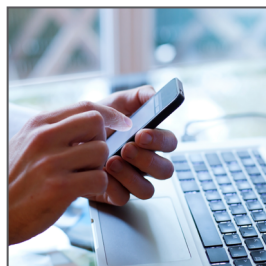
Applications

Mobile Devices

- Smartphones
- Tablet PCs
- Wearable Devices
- Portable Audio
- Portable Navigation Equipment

Medical Devices

- Patient Monitoring
- Therapeutic and Surgical



Smartphone



Wearable Watch



Patient Monitoring

SlimStack Board-to-Board Connectors, 0.40mm Pitch and 0.80mm Pitch, Battery Series

molex

Specifications

REFERENCE INFORMATION

Packaging: Embossed Tape on Reel
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low-Halogen

ELECTRICAL

Voltage (max.): 50V
Current (max.):
505004/505006
Signal Contact: 0.3A per circuit
Power Contact: 3.0A per circuit
104249/104250
Signal Contact: 0.3A per circuit
Power Contact: 4.5A per circuit
505473/505476
Signal Contact: 0.5A per circuit
Power Contact: 5.0A* per circuit

ELECTRICAL

Contact Resistance (max.):
505004/505006
Signal Contact: 80 milliohms
Power Contact: 10 milliohms
104249/104250
10 milliohms
505473/505476
Signal Contact: 60 milliohms
Power Contact: 10 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance (min.): 100 Megohms

MECHANICAL

Durability (max.): 10 cycles

PHYSICAL

Housing: LCP, UL94V-0, Black
Contact: Copper Alloy
Plating:
Contact Area – Gold
Solder Tail Area – Gold
Underplating – Nickel
Operating Temperature: -40 to +85°C

Dimensions

Refer to drawing for detail dimension

Ordering Information

Order No.		Mated Height (mm)	Mated Width (mm)	Circuits	Metal Armor Housing Cover	Current
Receptacle	Plug					
<u>505473-0810</u>	<u>505476-0810</u>	0.60	2.00	8 (4 power; 4 signal)	Yes	10.0A*
<u>505473-1010</u>	<u>505476-1010</u>			10 (4 power; 6 signal)		
<u>505004-0812</u>	<u>505006-0812</u>	0.75	2.50	8 (4 power; 4 signal)	No	6.0A*
<u>104249-0810</u>	<u>104250-0820</u>			8 (power or signal)		9.0A*

*10.0A of current per circuit is applicable if the circuit was constructed by two power circuits via a PWB/FPC circuit.
The same applies for the 6.0A and 9.0A versions.

www.molex.com/link/slimstack.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.