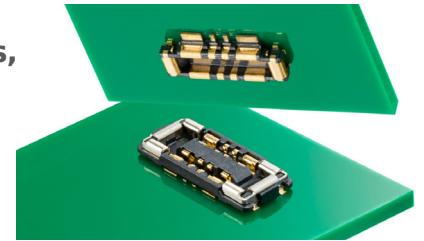


SlimStack Board-to-Board Connectors, 0.35, 0.40 and 0.80mm Pitch, Battery Series

molex

Achieve up to 15.0A 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 15.0A power

Meets the growing power needs of tight-packaging applications

Compact hybrid interface with power and signal contacts

Combines extra signal lines into a power connector footprint for space savings

Dual-contact design

Assures contact reliability

Delivers up to 6.0A



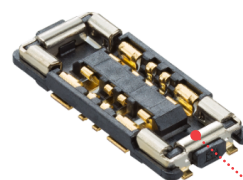
Receptacle, 505004 Series

Delivers up to 9.0A/11.0A



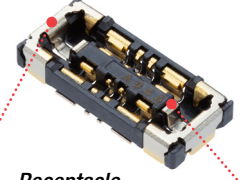
Receptacle, 104249/207419 Series

Delivers up to 10.0A



Receptacle, 505473 Series

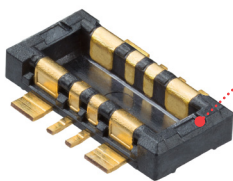
Delivers up to 15.0A



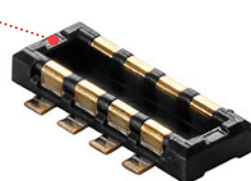
Receptacle, 211175 Series

Wide alignment area

Provides easy and secure mating



Plug, 505006 Series



Plug, 104250/207420 Series

Armor nail

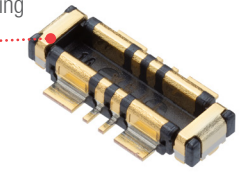
Prevents damage to housing



Plug, 505476 Series

Improved Armor

Protects inner housing



Plug, 211176 Series

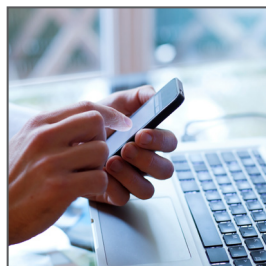
Applications

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, 0.35, 0.40 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
207419/207420
Signal Contact: 0.3A per circuit
Power Contact: 5.5A per circuit
211175/211176
Signal Contact: 0.3A per circuit
(Power Nail/1pin + Power Contact/2pin): 15.0A

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
207419/207420
10 milliohms
211175/211176
Signal Contact: 50 milliohms
Power Nail/Power Contact: 15 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.		Circuits	Current	Signal Pitch (mm)	Mated Height (mm)	Mated Width (mm)	Length (mm)
Receptacle	Plug						
211175-0080	211176-0080	8 (4 signal; 4 power) + 2 power nail	15.0A	0.35	0.7	2.00	4.50
505473-0810	505476-0810	8 (4 signal; 4 power)	10.0A	0.40	0.6		4.80
505473-1010	505476-1010	10 (6 signal; 4 power)					5.20
505004-0812	505006-0812	8 (4 signal; power)	6.0A	0.80	0.75	2.50	4.20
207419-0081	207420-0081	8 (4 signal or power)	11.0A				5.20
104249-0810	104250-0810	8 (4 signal or power)	9.0A				

*Maximum current of 15.0A per connector is applicable if the circuit is constructed by two power circuits and one power nail via a PWB/FPC circuit.

*Maximum current of 11.0/10.0/9.0/6.0A per connector is applicable if the circuit is constructed by two power circuits via a PWB/FPC circuit.

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.