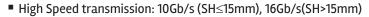


FloatCombo™ 0.50mm Floating Board-to-Board Connectors with Power Pin

HIGH SPEED HIGH CURRENT POWER PIN BOARD-TO-BOARD CONNECTORS

Amphenol's FloatCombo™ are 0.50mm pitch floating board-to-board connectors that support stack heights from 8.0mm to 30.0mm. These connectors come with 4 independent power contacts and 20 to 140 signal contacts, where the power contacts support 5A per pin and the signal contacts provide high-speed data rates up to 10Gb/s or 16Gb/s. The compact connector design makes it suitable for use in applications with large current, vibration, and space-saving requirements, such as ADAS, ECUs, BMS, OBC, invertor applications in Automotive and LED Display, LED Monitor, Robotics applications in Industrial.



- Current rating up to 5A per power pin (5A/pin* 4)
- Wide Operating Temperature Range: -55°C to +125°C (including T-Rise)
- Large floating range, SH≤15mm: X, Y±0.60mm, Z±0.50mm, SH>15mm: X, Y±0.80mm, Z±0.60mm
- Anti-fool mating design
- Direction guide functions for easy mating
- USCAR-2 T3V2 qualified



FEATURES

• High Floating allowance up to ±0.80mm

High speed performance up to PCIe 4.0 with 16Gb/s

High Current transmission up to 5A/Pin

Dedicated power pin design

Big guide

• UL94V-0 flammability rated LCP material

Lead-Free, halogen-free, RoHS compliant

BENEFITS

- Capable of absorb accumulated system tolerances, suitable for automatically assembly
- Suitable for the applications need high data transmission
- Suitable for products that need to supply high current separately, space saving for by using fewer terminals
- Hot-swappable
- Blind-mating possible and support for multiple connectors using
- High flammability rating
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, Black (UL94V-0)
- Signal Terminal: Copper Alloy with Ni under plate and Gold plating
- Power Terminal: Copper Alloy with Ni under plate and Gold plating
- Ground Bar: SUS 304 (for B329 only)

MECHANICAL PERFORMANCE

- Durability: 100 cycles
- Terminal Retention Force: 2.5N/terminal min. (EIA 364-05B)
- Insertion Force: 1 N/pin max. (EIA 364-09)
- Extraction Force: 0.03N/pin min. (EIA 364-09)

ELECTRICAL PERFORMANCE

- Insulation Resistance: 500M Ω min.
- Voltage Rating: Signal pin 50VAC/VDC; Power pin 200VAC/DC
- Contact Resistance: $60m\Omega$ max. (initial)
- Current Rating: Signal pin 0.5A/pin; power pin, 5A/pin*4

PACKAGING

■ Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS compliant
- REACH

SPECIFICATION

- Aorora Product Specification:
- IS.EQC.180 (stack height ≤15mm)
- IS.EQC.217 (stack height >15mm)

ENVIRONMENTAL

 Operating Temperature Range: -55°C to +125°C (including T-Rise)

TARGET MARKETS/APPLICATIONS



Infotainment Powertrain



LED Display Mobile POS Terminals

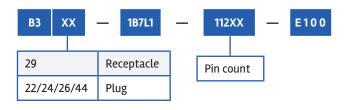


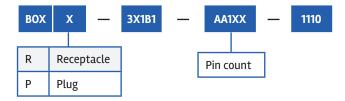
Communication Base Station Service Robot



MRI/CT

PART NUMBER SELECTOR





▶ FloatCombo[™] 0.50mm Floating Board-to-Board Connectors with Power Pin

PART NUMBERS

Stack Height	Receptacle PN	Plug PN	Remark	Status
8.0mm	B329-1B7L1-112**-E100	B324-1B7L1-112**-E100	With high speed, SMT	Active
10.mm	B329-1B7L1-112**-E100	B322-1B7L1-112**-E100	With high speed, SMT	Active
13.0mm	B329-1B7L1-112**-E100	B344-1B7L1-112**-E100	With high speed, SMT	Active
15.0mm	B329-1B7L1-112**-E100	B326-1B7L1-112**-E100	With high speed, SMT	Active
20.0mm	B04R-3J1B1-AA1**-1110	B06P-3G1B1-AA1**-1110	With high speed, SMT+PiP	Active
21.0mm	B04R-3J1B1-AA1**-1110	B13P-3N1B1-AA1**-1110	With high speed, SMT+ PiP	Active
25.0mm	B04R-3J1B1-AA1**-1110	B07P-3K1B1-AA1**-1110	With high speed, SMT+PiP	Active
30.0mm	B04R-3J1B1-AA1**-1110	B04P-3J1B1-AA1**-1110	With high speed, SMT+PiP	Active

Note: This table may update not on time, please contact our local sales to confirm the latest information.