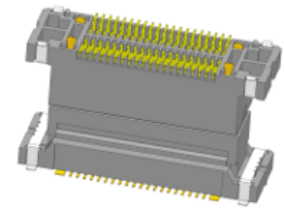**molex**

High-Power 1.00mm-Pitch Floating Board-to-Board Connector ❯

Molex High-Power 1.00mm-Pitch Floating Board-to-Board Connectors deliver reliable and safe connectivity to next-generation EV electric powertrain modules.
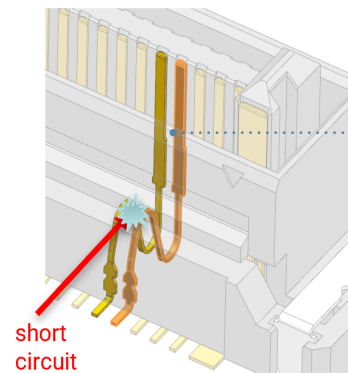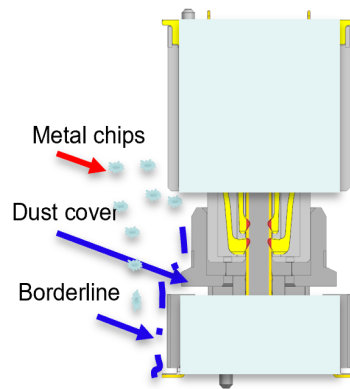
Mated High-Power 1.00mm-Pitch Floating Board-to-Board Connector

## FEATURES AND ADVANTAGES

Full terminal cover option available
Maintains cleanliness for proper performance of the MCU. Prevents ingress of debris, such as tiny metal chips, which could cause shorting

Metal chips

Dust cover

Borderline

short circuit

1.00mm pitch
Has a wide pitch to prevent terminals from short-circuiting

Dual contact and deep wipe length (1.75mm, ±0.75mm)
Delivers reliable connectivity

Dual point contact

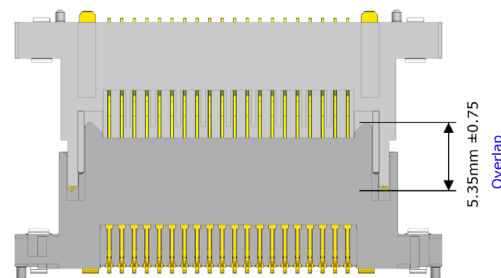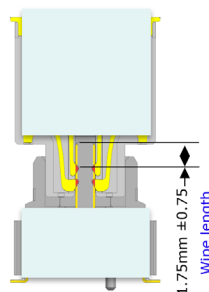Z +/− 0.75mm
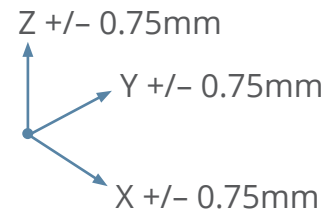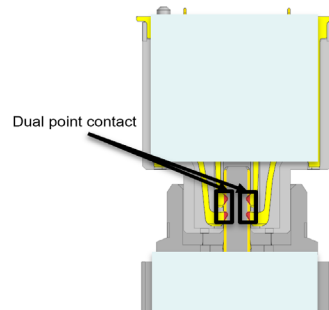
Y +/− 0.75mm

X +/− 0.75mm

Wide floating range
Offers ±0.75mm float in the x, y and z axes

Generous wipe length and overlap when connectors are mated
Ensures stability of signal transmission even during extreme vibration

1.75mm ±0.75 — Wipe length

5.35mm ±0.75 — Overlap

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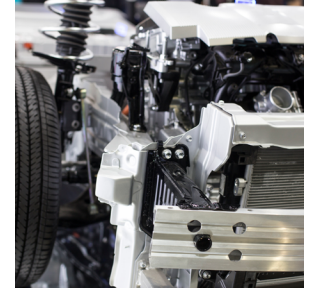# High-Power 1.00mm-Pitch Floating Board-to-Board Connector ❯

MARKETS AND APPLICATION

Automotive
Electrified powertrain modules

Electric Car

Electrified Powertrain

TARGET SPECIFICATIONS

Features	Items	Specifications
Environmental	Vibration classification	USCAR-2 V2
	Temp. classification	-40 to 125˚C
Mechanical	Floating / rigid side size	10.80 by 35.00mm (40 circuits)
	Floating (X, Y, Z)	+/- 0.75mm
	Alignment	+/- 1.50mm
	Contacts type	Dual Contacts
	Wipe length	1.75 +/- 0.75mm
Electrical	IR and DWV	IR (100 Megohm) DWV (1000V AC)
	Rated voltage / current	100V / 1.0A
	Data type and rate	Low speed
	Anti-metal dust design	Dust cover
Configuration	Pitch	1.00mm
	Circuits	20 / 30 / 40 / 50 / 60 / 70 / 80
	Stacking height	15 / 17 / 19 / 20 / 22 / 24 / 26 / 28 / 30mm
Option	Power pin	3.0A

Note: Molex reserves the right to delay or cancel production of the depicted product without additional notice. Please contact your Molex customer service representative for product availability.

www.molex.com/link/highpowerbtob.html