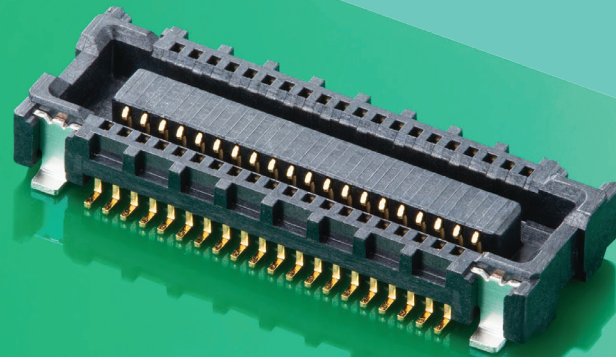
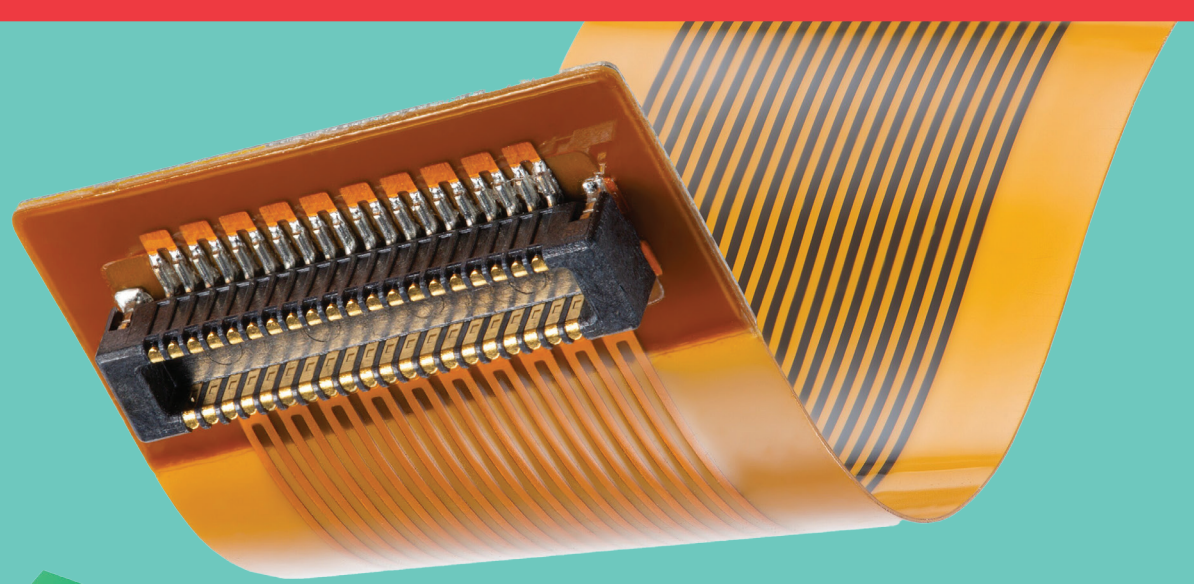


**molex**

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# BOARD-TO-BOARD CONNECTORS

The Market Leader



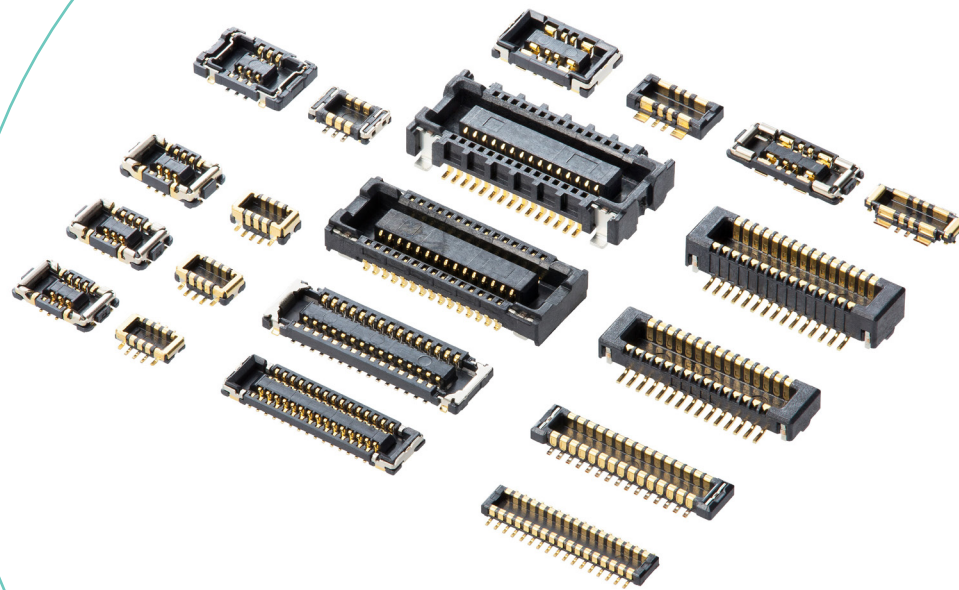
# EXPERIENCE THE FREEDOM OF DESIGNING WITH LEADING-EDGE TECHNOLOGY

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No other board-to-board solution brings designers more features and benefits than Molex Board-to-Board Connectors. Our signal, power and RF connectors are ideal for compact applications in consumer, mobile, automotive, industrial and medical applications. A wide variety of low-profile, narrow-width options are available in various mated heights and circuit sizes.

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**Board-to-board  
solutions designed  
for smaller,  
high-performing  
devices**



# FEATURES AND ADVANTAGES

Make your design **miniaturized**, **robust** and **reliable**

- Miniaturized connectivity
- Shielded, electromagnetic compatibility, signal integrity
- Floating connections
- Anti-vibration
- Dual contact
- Wide alignment guides
- Damage resistant

## Pitch size

0.175 – 0.635mm

## Mating height

0.50 – 16.00mm

## Max. Current

6.0 to 18.0A

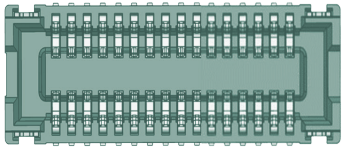
## Speeds

60 Gbps / 30 GHz

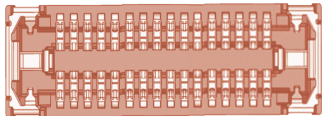


# SPACE SAVINGS

0.40mm Pitch

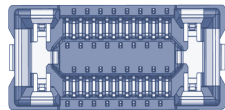


0.35mm Pitch



**SAVE  
30%**

0.175mm Pitch



**FURTHER  
SAVE 25%**

1

## SMT Footprint – Space Savings

Molex's latest quad-row board-to-board connectors offer 36% in SMT footprint area space saving over ACB6+.

2

## Mating Height – Design Flexibility

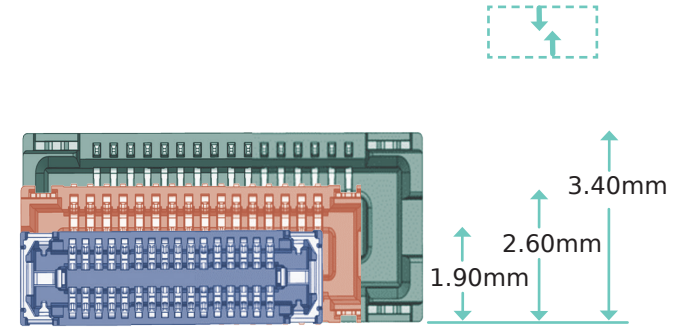
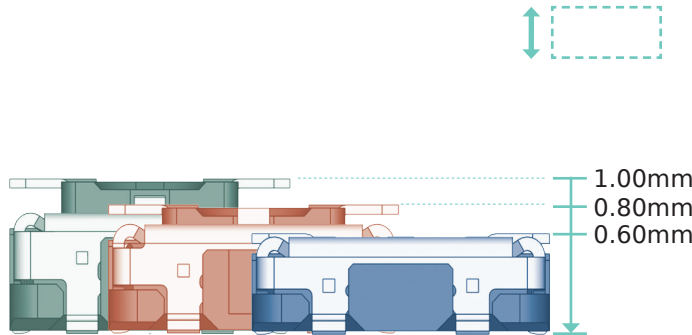
Molex's board-to-board product line offers a wide range of mating heights, providing flexibility for designers to mitigate application space constraints.

3

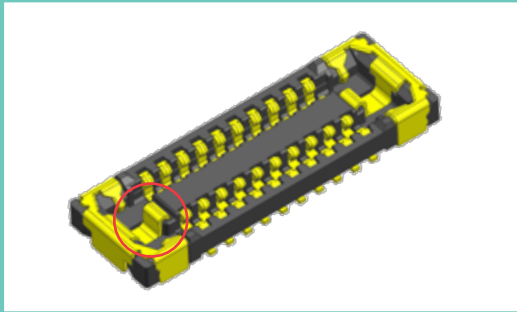
## Width – Space Savings

Molex ACB6+ board-to-board connectors offer an ultra-low width of 1.90mm.

Molex also offers several 2.00mm options with additional feature subsets.



# MAXIMUM ROBUSTNESS



1

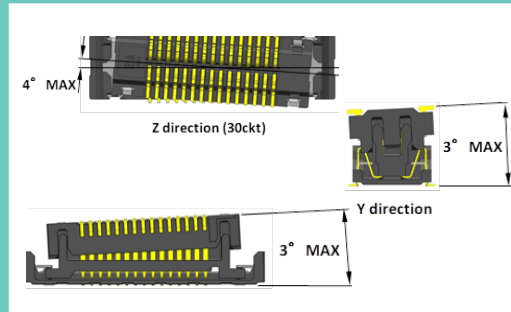
## Armor Nail Design

Offers side wall to protect housing from micro cracking

Additional retention force features

Power options for some designs

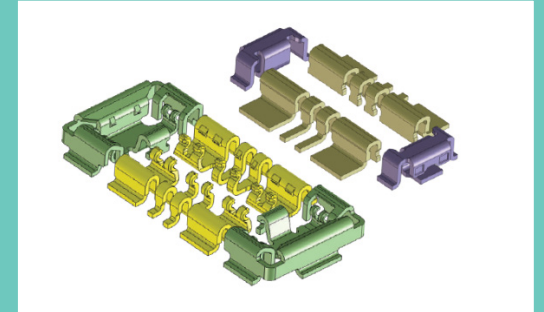
Alignment features



2

## Mating Alignment

Allows for the plug contact interface to float within a protective spring design that absorbs the shock and vibration of the application.

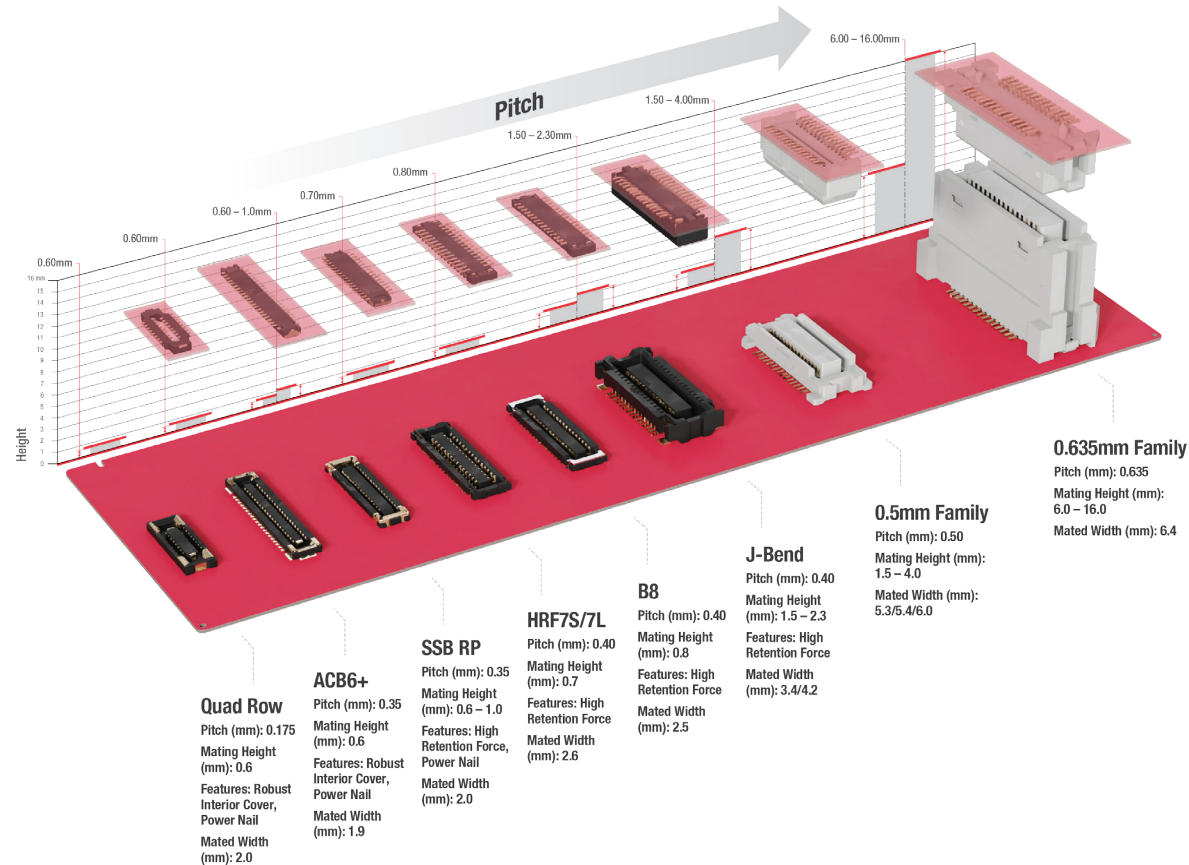


3

## Anti-Peel Terminals

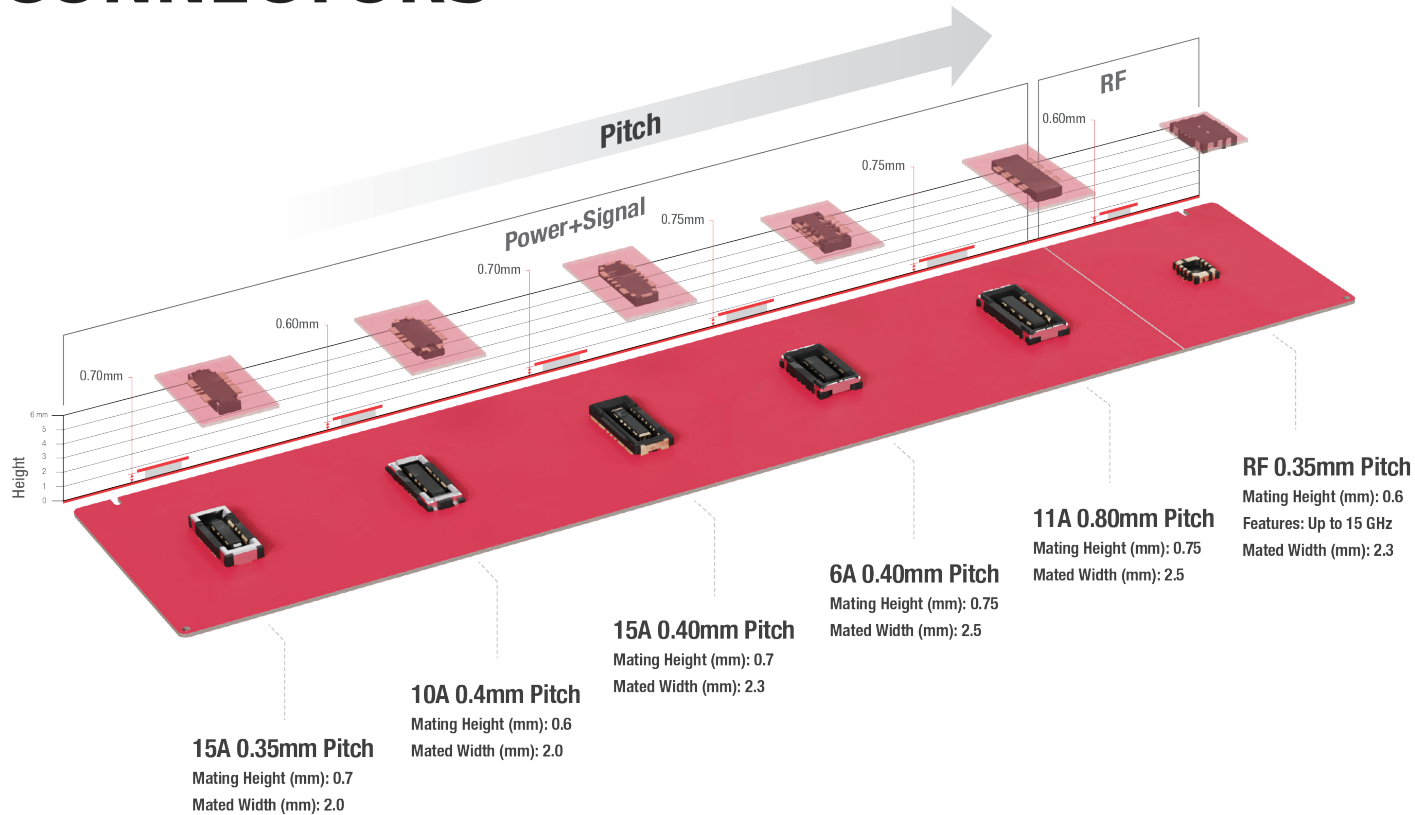
Bottom-inserted receptacle terminals and overmold plug terminals prevent terminals from becoming dislodged or peeling off from the housing.

# SLIMSTACK BOARD-TO-BOARD SIGNAL CONNECTORS

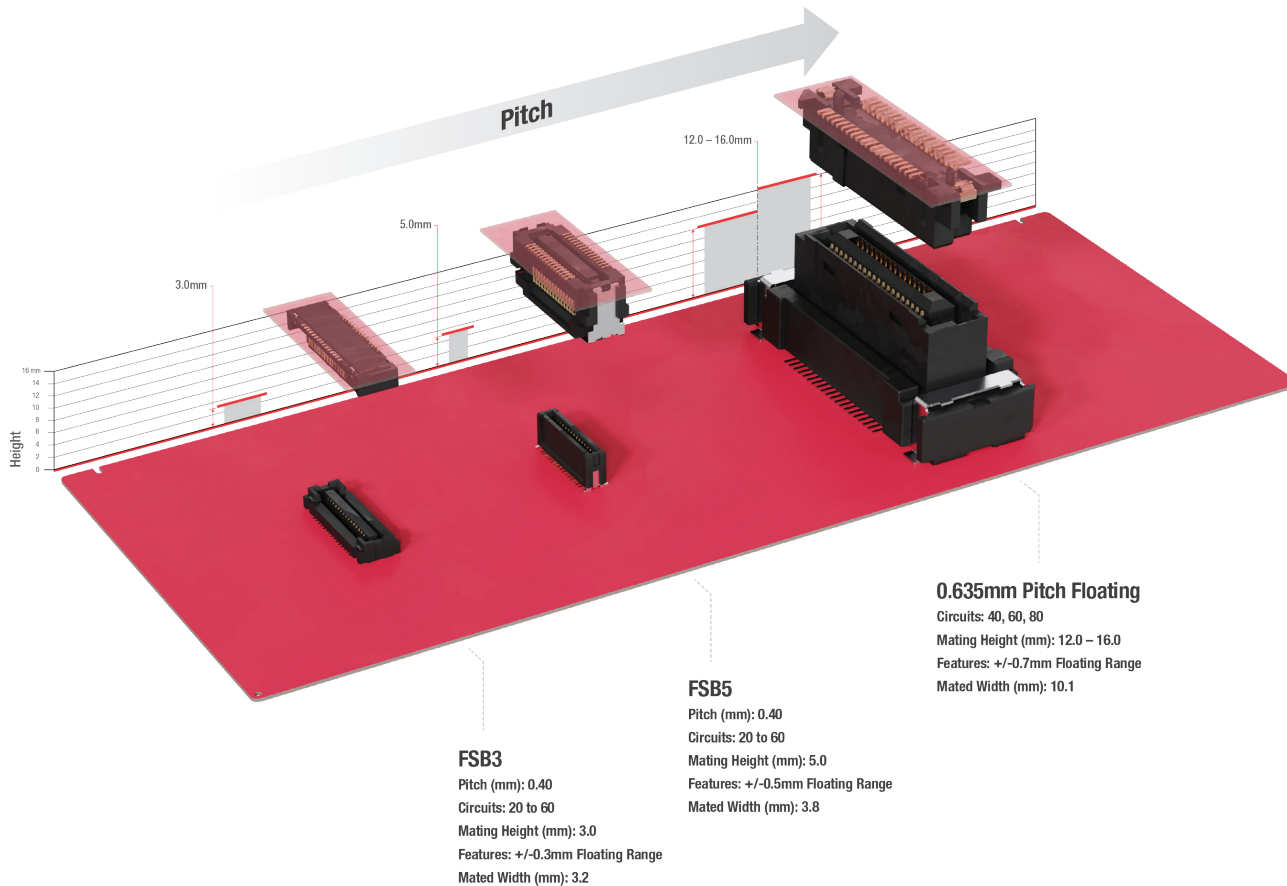




# SLIMSTACK BOARD-TO-BOARD POWER + SIGNAL AND RF CONNECTORS



# SLIMSTACK BOARD-TO-BOARD FLOATING CONNECTORS









# SIGNAL + POWER CONNECTORS IN ULTRA SMALL PROFILE



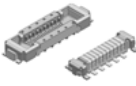








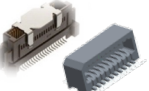


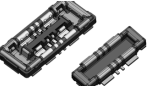
Pitch	0.35mm	0.40mm	0.40mm	0.40mm	0.80mm
Mating Height	0.70mm	0.60mm	0.70mm	0.75mm	0.75mm
Width	2.00mm	2.00mm	2.30mm	2.50mm	2.50mm
Length	4.50mm	4.80/5.20mm	5.00mm	4.20mm	5.20mm
Max. Current	15.0A	10.0A	15.0A	6.0A	11.0A
Name	GCB7	Battery Series	New GCB7	Battery Series	Battery Series
Weblink	<a href="#">Product Search</a>	<a href="#">Product Search</a>		<a href="#">Product Search</a>	<a href="#">Product Search</a>



# RF CONNECTORS FOR HIGH-SPEED TRANSMISSION

Pitch	0.35mm
Mating Height	0.60mm
Width	2.30mm
Length	3.04mm
Max. Frequency	Up to 15 GHz
Name	5G15

# OUR VISION FOR BOARD-TO-BOARD

	2021	2022	2023			
Miniaturization	 <p>0.30mm Pitch Height 0.60mm</p>	 <p>0.30mm Pitch Height 0.50mm</p>	 <p>Single Row 1.20mm Width</p>	 <p>Narrow 1.50mm Width</p>		
5G High-Band High-Speed	 <p>13.5Ghz 0.35P / 0.6H</p>	 <p>0.50mm Pitch PCIe Gen4 16 Gbps Floating</p>	 <p>30 Ghz Low Profile</p>	 <p>0.50mm Pitch PCIe Gen4 16 Gbps Floating</p>		
Robust and Rugged Auto-Grade	 <p>3.00mm Height 6 Gbps</p>	 <p>0.35mm Pitch Height 0.50mm</p>	 <p>Waterproof IPX7</p>	 <p>0.60mm Pitch R/A Floating</p>	 <p>4.00+6.00+8.00mm Height 6Gbps</p>	 <p>1.00mm Anti High Voltage Floating</p>
Power		 <p>GCB6 18A 0.35P / 0.60H</p>				

Products shown are concepts and not in production at this time.  
Last Updated as at April 2021

# FURTHER INFORMATION



[SlimStack Board-to-Board Connectors](#)

**molex**