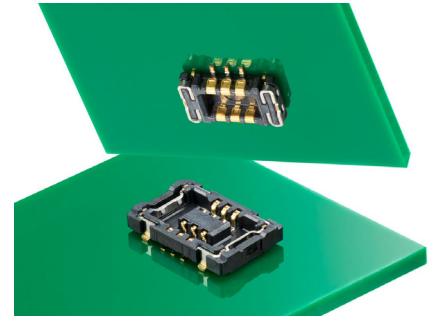


SlimStack Board-to-Board Connectors, 0.40mm Pitch, HRF Series

molex

SlimStack B-to-B connectors, 0.40mm pitch, 0.70mm height, HRF (High Retention Force) series include high mating-retention features in order to maintain secure contact even when subjected to high vibration or shock. The connectors were developed for mobile phone makers who wanted to provide extra reliability in situations where the phone may be dropped or handled roughly.

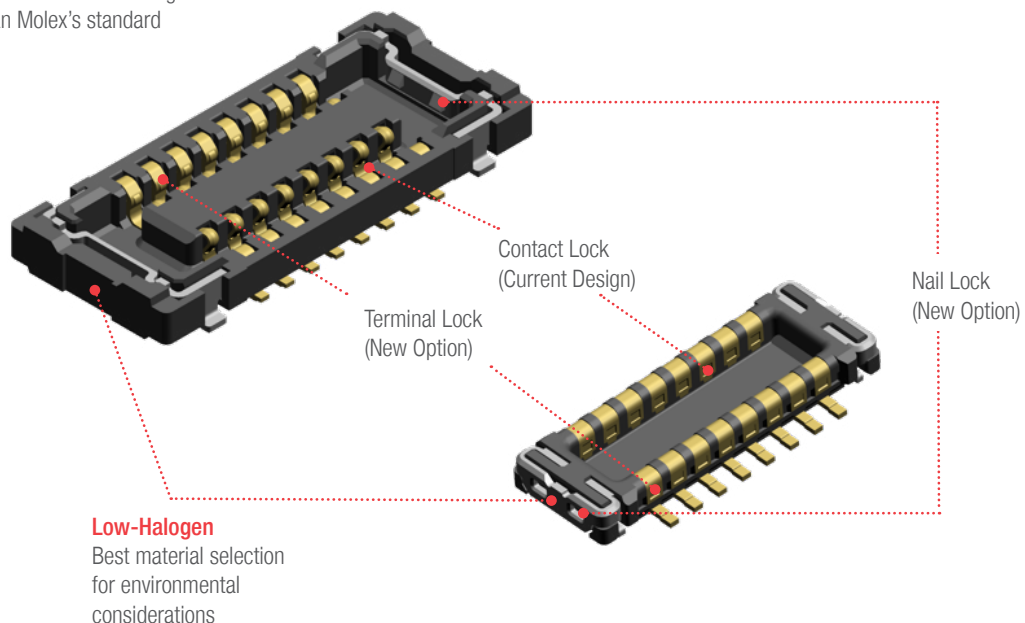
This improved version includes two contact friction locks and a nail friction lock that combine to offer superior mating retention. Other features of this series include a dual-contact terminal design that provides secure electrical contact, a wide housing area to accommodate easy pick-and-place and a common footprint pattern with the standard 503304/503308 version to provide flexibility for connector type and board placement.



Features and Advantages

High Mating-Retention Type

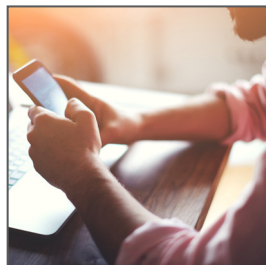
Several locking functions combine to offer mating retention +48% stronger than Molex's standard 503304/503308 series



Applications

Mobile Devices

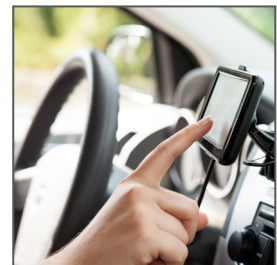
- Smartphones
- Tablet PCs
- Wearable Devices
- Portable Audio
- Portable Navigation Equipment



Smartphone



Wearables



Portable Navigation

SlimStack Board-to-Board Connectors, 0.40mm Pitch, HRF Series



Specifications

REFERENCE INFORMATION

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

ELECTRICAL

Voltage (max.): 50V
Current (max.): 0.3A per circuit
Contact Resistance (max.): 80 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance (min.): 100 Megohms

MECHANICAL

Durability (max.): 30 cycles

PHYSICAL

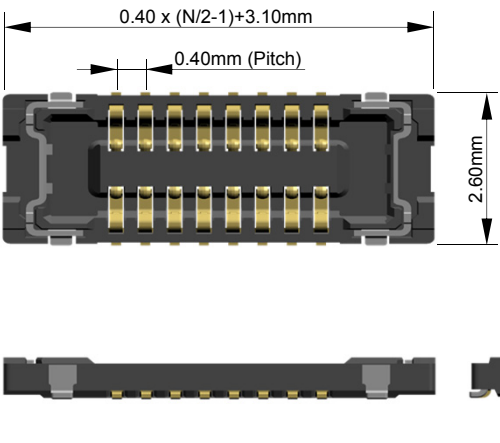
Housing: LCP, UL94V-0, Black
Contact: Copper Alloy
Plating:
Contact Area – Gold
Solder Tail Area – Gold
Underplating – Nickel
Operating Temperature: -40 to +85°C

Dimensions

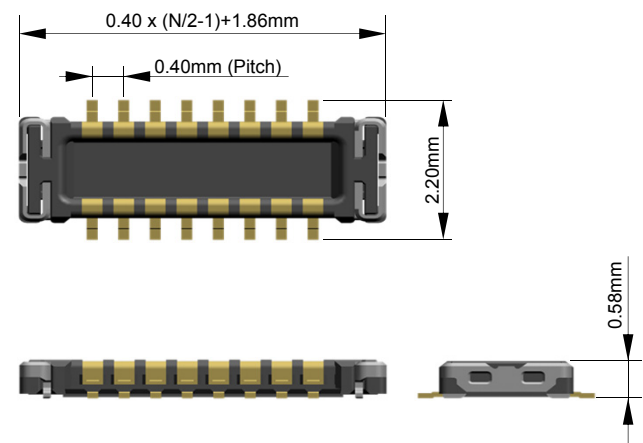
* Refer to drawing for detail dimension

N: Circuit Size

Receptacle



Plug



Ordering Information

Order No.		Mated Height (mm)	Mated Width (mm)	Circuits
Receptacle	Plug			
503548- **22	503552- **22	0.70	2.60	6, 10, 12, 14, 16, 18

** : Circuit Size

www.molex.com/link/slimstack.html

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