



RCII™

RC324 - 3-Row Mid/Top-of-Stack Connector with SI

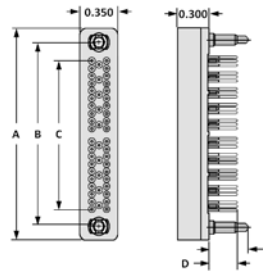
Contact spacing: 0.075" (1.91 mm)

A full bodied high-density press-fit connector with a 4-row aligned contact field for improved signal integrity. Use in RCII board-to-board stacking applications and/or at the top of the board stack.

DIMENSIONS

SIZE	A	B	C
25	1.235	1.005	0.675
50	2.010	1.780	1.450
75	2.785	2.555	2.225
100	3.560	3.330	3.000

Tolerances: ± 0.010"

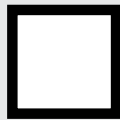


CONTACT SELECTION	CONTACT D	HARDWARE E
10	0.095	0.195

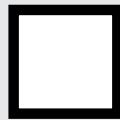
Sample Part Number Format: RC324-050-201-3900



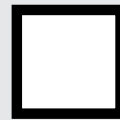
SERIES
 Stackable
 Compliant
 Full-Profile
 3 Rows
 0.075" Spacing



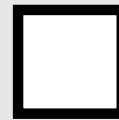
CONFIGURATION
 025 – 3 Rows/1 Bay
 050 – 3 Rows/2 Bays
 075 – 3 Rows/3 Bays
 100 – 3 Rows/4 Bays



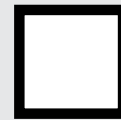
PLATING
 1 – 50 μ" Au



CONTACT
 10 – 0.095" Long
 20 – 0.270" Long
 21 – 0.300" Long
 22 – 0.400" Long
 23 – 0.500" Long
 24 – 0.700" Long
 25 – 0.800" Long
 26 – 0.900" Long
 27 – 0.600" Long
 28 – 1.000" Long



HARDWARE
 30 – 0.195" Long (use with #10 contact)
 39 – 0.370" Long (use with #20 contact)
 40 – 0.400" Long (use with #21 contact)
 41 – 0.500" Long (use with #22 contact)
 42 – 0.600" Long (use with #23 contact)
 43 – 0.800" Long (use with #24 contact)
 44 – 0.900" Long (use with #25 contact)
 45 – 1.000" Long (use with #26 contact)
 46 – 0.700" Long (use with #27 contact)
 47 – 1.100" Long (use with #28 contact)



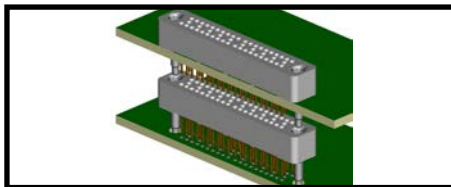
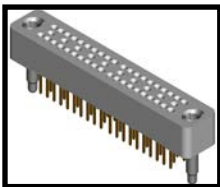
VARIATION
 Blank – None
 XXX – Consult factory



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MATED HEIGHT

The connector body height is 0.300" and, when used with the -20 or -30 (0.270") contact, the mounting is flush (board-bottom mounted to connector top). This board-bottom to connector top spacing can be modified based on the contact selected by approximately the difference in pin length. See Table 2.



MATERIALS and FINISHES

Contact:BeCu per ASTM-B768 (BeCu C17410 brush alloy 174)
 Contact Finish: Gold per MIL-G-45204 over nickel per IAW QQ-N-290
 Molded Insulator: Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519
 Hardware: Stainless steel per ASTM-A582, passivated per ASTM-A967
 Guide Pin/Socket: BeCu per ASTM-B196/197, nickel-plated per QQ-N-290

NOTE: AirBorn can manufacture special configurations to your exact specifications.

PERFORMANCE

Contact Rating: 3 amperes
 Operating Temperature: -65° C to +125° C
 Insulation Resistance: 5,000 megaohms minimum @ 500 VDC
 Durability: 500 connector mating cycles
 Contact Resistance: 3 to 5 milliohms (contact length dependent)
 Contact Engagement Force: 4.0 oz. (113 g.) max. w/0.0246" dia. test pin
 Contact Separation Force: 0.5 oz. (14 g.) min. w/0.0226" dia. test pin
 Compliant Insertion Force: 22.5 lb. (10.21 Kg.) max. per contact
 Compliant Removal Force: 4.5 lb. (2.04 Kg.) min. per contact

NOTE: Performance values are estimates at this time. Actual values will be determined when final product testing is complete.

SI DATA – Differential 100 Ohm

1	Diff. Insertion Loss	6.0 GHz @ -3 dB
2	Diff. Return Loss	4.6 GHz @ -20 dB
3	NEXT	4.0 GHz @ -50 dB
4	FEXT	4.0 GHz @ -48 dB