



RCII™

RC424 - 4-Row Mid/Top-of-Stack Connector with SI

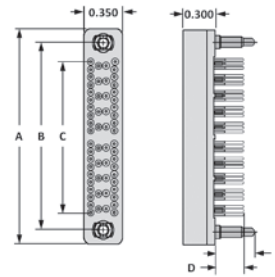
Contact spacing: 0.075" (1.91 mm)

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
30	1.235	1.005	0.675
60	2.010	1.780	1.450
90	2.785	2.555	2.225
120	3.560	3.330	3.000

Tolerances: ± 0.010"



CONTACT SELECTION	CONTACT D	HARDWARE E
20	0.270	0.370
21	0.300	0.400
22	0.400	0.500
23	0.500	0.600
24	0.700	0.800
25	0.800	0.900
26	0.900	1.000
27	0.600	0.700
28	1.000	1.100

Sample Part Number Format: RC424-060-201-3900



SERIES
 Stackable
 Compliant
 Full-Profile
 4 Rows
 0.075" Spacing



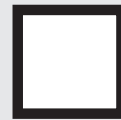
CONFIGURATION
 030 – 4 Rows/1 Bay
 060 – 4 Rows/2 Bays
 090 – 4 Rows/3 Bays
 120 – 4 Rows/4 Bays



PLATING
 1 – 50 μ" Au



CONTACT
 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



TYPE
 00 – None



VARIATION
 Blank – None
 XXX – Consult factory

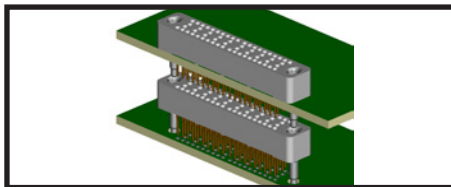
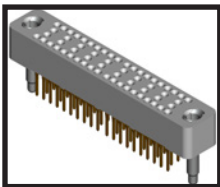
HARDWARE
 39 – 0.370" Long (use with #20 contact)
 40 – 0.400" Long (use with #21 contact)
 41 – 0.500" Long (use with #22 contact)
 42 – 0.600" Long (use with #23 contact)
 43 – 0.800" Long (use with #24 contact)
 44 – 0.900" Long (use with #25 contact)
 45 – 1.000" Long (use with #26 contact)
 46 –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



PLEASE CONSULT THE AIRBORNE WEBSITE FOR THE LATEST REVISION OF THIS DOCUMENT PRIOR TO BEGINNING ANY DESIGN WORK.

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

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