



RC422 - Full Profile Board-to-Board Stackable Connector

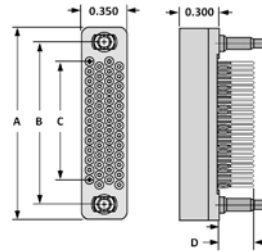
Contact spacing: 0.075" (1.91 mm)

A full bodied high-density press-fit connector. Uses a patented female/compliant/male stacking contact system. Used in board-to-board stacking applications.

DIMENSIONS

SIZE	A	B	C
28	1.014	0.784	0.450
52	1.464	1.234	0.900
76	1.914	1.684	1.350
100	2.364	2.134	1.800
128	2.889	2.659	2.325
152	3.339	3.109	2.775
200	4.239	4.009	3.675
252	5.214	4.984	4.650
300	6.114	5.884	5.550

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: RC422-052-211-4000



SERIES
Stackable
Compliant
Full-Profile
4 Rows
0.075" Spacing



CONFIGURATION
028 – 4 Rows/7 Columns
052 – 4 Rows/13 Columns
076 – 4 Rows/19 Columns
100 – 4 Rows/25 Columns
128 – 4 Rows/32 Columns
152 – 4 Rows/38 Columns
200 – 4 Rows/50 Columns
252 – 4 Rows/63 Columns
300 – 4 Rows/75 Columns



PLATING
1 – 50 μ" Au



TYPE
00 – None
FT – Female thread
MT – Male thread
(#39 hardware, only)



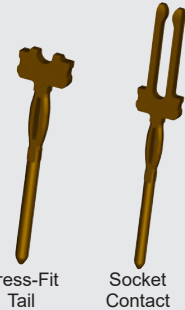
VARIATION
Blank – None
XXX – Consult factory

CONTACT

20 – Socket contact, press fit tail 0.270**
21 – Socket contact, press fit tail 0.300**
22 – Socket contact, press fit tail 0.400**
23 – Socket contact, press fit tail 0.500**
24 – Socket contact, press fit tail 0.700**
25 – Socket contact, press fit tail 0.800**
26 – Socket contact, press fit tail 0.900**
27 – Socket contact, press fit tail 0.600**
28 – Socket contact, press fit tail 1.000**
30 – Press fit tail 0.270**
31 – Press fit tail 0.300**
32 – Press fit tail 0.400**
33 – Press fit tail 0.500**
34 – Press fit tail 0.700**
35 – Press fit tail 0.800**
36 – Press fit tail 0.900**
37 – Press fit tail 0.600**
38 – Press fit tail 1.000**

HARDWARE

39 – 0.370" Long (use with #201 contact)
40 – 0.400" Long (use with #211 contact)
41 – 0.500" Long (use with #221 contact)
42 – 0.600" Long (use with #231 contact)
43 – 0.800" Long (use with #241 contact)
44 – 0.900" Long (use with #251 contact)
45 – 1.000" Long (use with #261 contact)
46 – 0.700" Long (use with #271 contact)
47 – 1.100" Long (use with #281 contact)



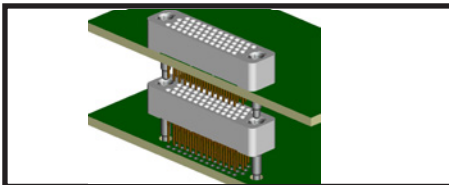
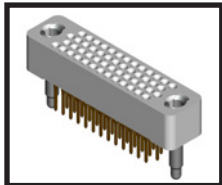
NOTES

- * Use with body style 422 only.
- ** Use with body style 442 or 422 only.

PLEASE CONSULT THE AIRBORN 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 in top window).



SI DATA – Differential 100 Ohm

1	Diff. Insertion Loss	5.0 GHz @ -3 dB
2	Diff. Return Loss	2.0 GHz @ -8 dB
3	NEXT	4.0 GHz @ -25 dB
4	FEXT	4.0 GHz @ -35 dB

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 967
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