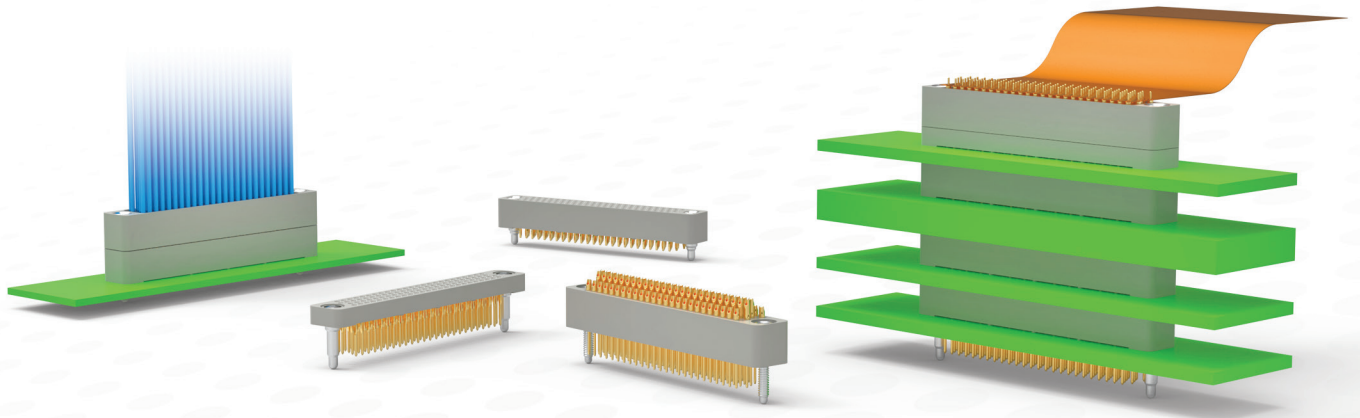


molex



AirBorn RC Series

Stackable Connectors

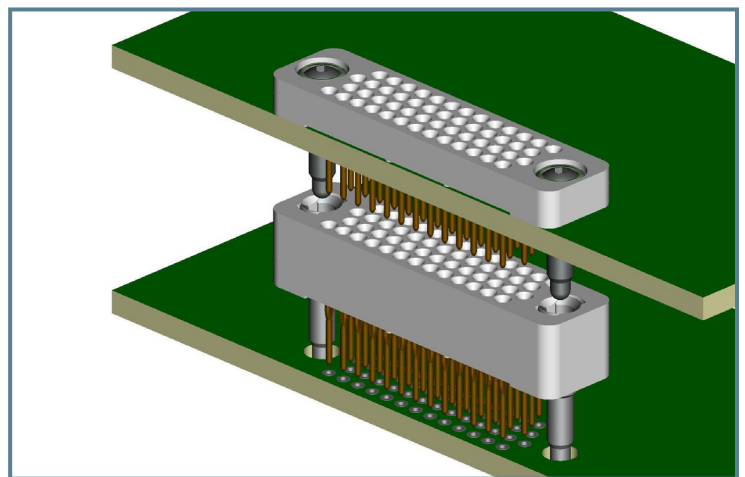
AirBorn RC Series

Overview

Molex AirBorn RC Series Stackable Connectors provide a high-density, solderless solution with 0.075" contact spacing, delivering significant space and weight savings. Press-fit compliant contacts eliminate soldering and inspection processes while supporting selectively loaded contacts for tailored signal routing—reducing assembly complexity and production costs, and improving electrical performance and system reliability.

Available in low and full profile configurations with 28 to 300 contacts, the AirBorn RC Series supports a wide range of board stacking and cable-to-board architectures. Various hardware options and contact tail lengths accommodate different stack heights, enabling complex multi-stack designs while maintaining consistent alignment and low-stress termination for long-term reliability.

- Wide variety of standard pin/tail lengths accommodate any board-to-board spacing
- 0.075" contact spacing
- Reliable eye-of-the-needle-compliant section design eliminates soldering
- BeCu contacts (special high-conductivity, high-temperature alloy)
- Very robust socket contact (low-stress design)
- Individually repairable contacts

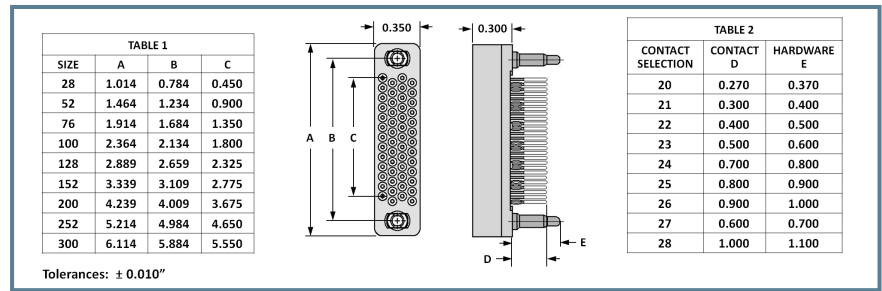


RC-CVR-A

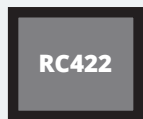
RC422 - Full Profile Board-to-Board Stackable Connector

This full-bodied, high-density, press-fit connector uses a patented female/compliant/male stacking-contact system and is used in board-to-board stacking applications. Contact spacing: 0.075" (1.91mm)

DIMENSIONS



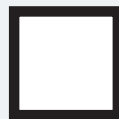
Sample Part Number Format: RC422-052-211-4000



SERIES
Airborn RC Stackable
Compliant
Full-Profile
Four Rows
0.075" Spacing



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



PLATING
1 – 50 μ inches Au



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



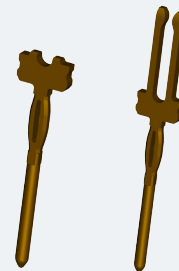
VARIATION
Blank – None
XXX – Consult factory

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)



Press-Fit Tail Socket Contact

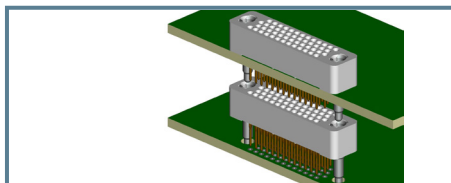
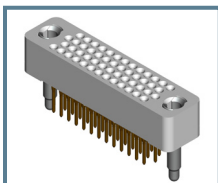
NOTES:

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

PLEASE CONSULT THE MOLEX 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 at -3 dB
2	Diff. Return Loss	2.0 GHz at -8 dB
3	NEXT	4.0 GHz at -25 dB
4	FEXT	4.0 GHz at -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:Molex can manufacture special configurations to your exact specifications.

PERFORMANCE

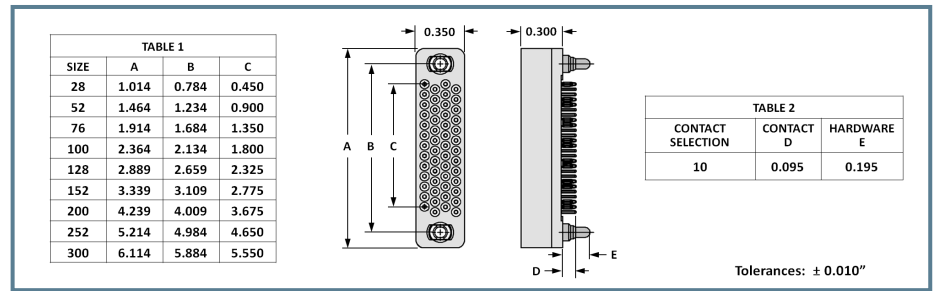
Contact Rating: 3 amperes
Operating Temperature: -65° C to +125° C
Insulation Resistance: 5,000 megaohms minimum at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length-dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 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

RC422-PNB-1G

RC422 - Bottom-of-Stack Board Mount Connector

This full bodied high-density press-fit connector, uses a patented female/compliant/male stacking contact system and is used at the bottom of the stack in board-to-board stacking applications. Contact spacing: 0.075" (1.91mm)

DIMENSIONS



Sample Part Number Format: RC422-052-101-3000



SERIES
AirBorn RC Stackable
Compliant
Full-Profile
Four rows
0.075" Spacing



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



PLATING
1 – 50 μ inches Au



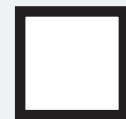
CONTACT
10 – 0.095" Long



HARDWARE
30 – 0.195" Long
(use with #10 contact)



TYPE
00 – None
FT – Female thread



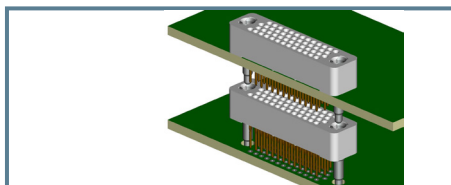
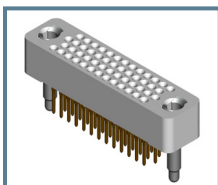
VARIATION
Blank – None
XXX – Consult factory



PLEASE CONSULT THE MOLEX 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 at -3 dB
2	Diff. Return Loss	2.0 GHz at -8 dB
3	NEXT	4.0 GHz at -25 dB
4	FEXT	4.0 GHz at -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: Molex 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 at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length-dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 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

RC422-PNB-2F

RC442 - Low Profile Board-to-Board Stackable Connector

This low-profile, high-density, press-fit connector uses a patented female/compliant/male stacking-contact system and is used in board-to-board stacking applications. Contact spacing: 0.075" (1.91mm)

DIMENSIONS

TABLE 1			
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"

TABLE 2		
CONTACT SELECTION	CONTACT D	HARDWARE E
30	0.270	0.370
31	0.300	0.400
32	0.400	0.500
33	0.500	0.600
34	0.700	0.800
35	0.800	0.900
36	0.900	1.000
37	0.600	0.700
38	1.000	1.100

Sample Part Number Format: RC442-052-311-4000



SERIES
AirBorn RC
Stackable
Compliant
Low-Profile
Four rows
0.075" Spacing



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



PLATING
1 – 50 μ inches Au



CONTACT
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 #30 contact)
40 – 0.400" Long (use with #31 contact)
41 – 0.500" Long (use with #32 contact)
42 – 0.600" Long (use with #33 contact)
43 – 0.800" Long (use with #34 contact)
44 – 0.900" Long (use with #35 contact)
45 – 1.000" Long (use with #36 contact)
46 – 0.700" Long (use with #37 contact)
47 – 1.100" Long (use with #38 contact)



TYPE
00 – None



VARIATION
Blank – None
XXX – Consult factory

NOTES:

** Use with body style 442 or 422 only.

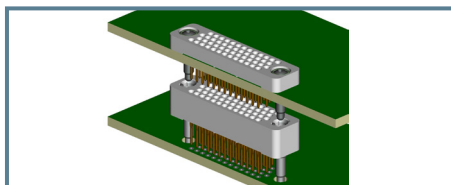
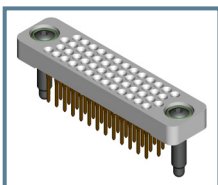


Press-Fit Tail

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

MATED HEIGHT

The connector body height is 0.150" but the functional spacing (the bottom surface of the board, on which the connector is mounted, to the top of the connector below it) can be modified based on the contact/pin length selected (see Table 2 in top window).



SI DATA – Differential 100 Ohm

1	Diff. Insertion Loss	5.0 GHz at -3 dB
2	Diff. Return Loss	2.0 GHz at -8 dB
3	NEXT	4.0 GHz at -25 dB
4	FEXT	4.0 GHz at -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: Molex 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 at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 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

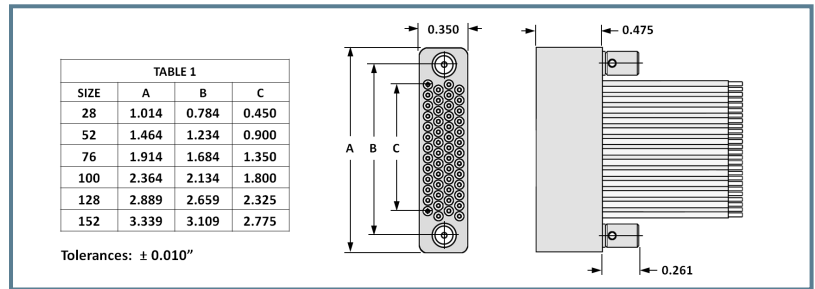
RC442-PNB-1F

RC4B2 - Bottom-of-Stack Cable Mating Connector (Female)

This full-profile female cable connector is used at the bottom of an RC board stack application.

Contact spacing: 0.075" (1.91mm)

DIMENSIONS



Sample Part Number Format: RC4B2-052-281-62ED



SERIES
AirBorn RC Stackable
Compliant
Full-Profile
Four rows
0.075" Spacing
Bottom-of-Stack
Cable Female



CONFIGURATION
028 – Four rows/seven
Columns
052 – Four rows/13
Columns
076 – Four rows/19
Columns
100 – Four rows/25
Columns
128 – Four rows/32
Columns
152 – Four rows/38
Columns



CONTACT
28 – Socket, crimp, 26-24
AWG
29 – Socket, crimp, 30-28
AWG



PLATING
1 – 50 μ inches
Au



HARDWARE
00 – None
58 – Guide socket, non-polarized
62 – Jacksocket, hex, turning



TYPE
00 – None
XX – See Wire Codes



VARIATION
Blank – None
XXX – Consult factory

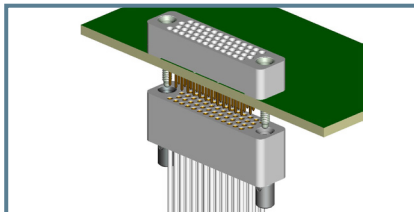
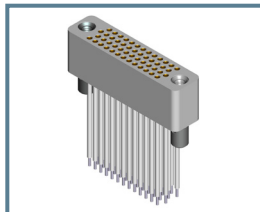
WIRE CODES

TYPE and COLOR			LENGTH	
Code	Size	Color	Code	Length (+1"/-0")
Mil-W-16878/4				
C	24 awg	Ten repeating	A	6"
D	24 awg	White	B	12"
E	26 awg	Ten repeating	C	18"
F	26 awg	White	D	24"
G	28 awg	Ten repeating	E	30"
H	28 awg	White	F	36"
J	30 awg	Ten repeating	G	42"
K	30 awg	White	H	48"
Mil-W-22759/33				
N	24 awg	Ten repeating	J	54"
P	24 awg	White	K	60"
R	26 awg	Ten repeating	L	66"
S	26 awg	White	M	72"
T	28 awg	Ten repeating	N	84"
U	28 awg	White	P	96"
V	30 awg	Ten repeating	R	108"
W	30 awg	White	S	120"

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

MATED HEIGHT

Connector body height is 0.475" and is designed to mount flush to the board bottom of the mating connector.



NOTES

- The RC4B2 connector is designed to mate with an RC422 connector using contact option -21 (0.270" long) and -39MT hardware. This contact length and hardware combination assures proper connector mating when using boards having a thickness of 0.058"-0.125".
- When guide hardware is required on the RC4B2 connector, use hardware option -3900 on the mating connector.
- When jacksocket hardware is required on the RC4B2 connector, use hardware option -39MT on the mating connector.

MATERIALS and FINISHES

Contact:BeCu per ASTM B196 or B197 (BeCu alloy 172 or 173)
Contact Finish: Gold per MIL-G-45204 over nickel per QQ-N-290
Molded Insulator: Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519
Hardware:Stainless steel per ASTM A484/A484M and ASTM A582/A582M,
passivated per SAE AMS-2700

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

PERFORMANCE

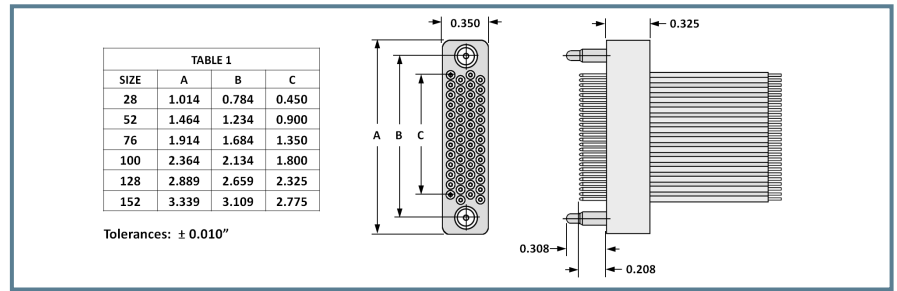
Contact Rating: 3 amperes
Operating Temperature: -65° C to +125° C
Insulation Resistance: 5,000 megaohms minimum at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 0.0226" dia. test pin

RC4B2C-PNB-1F

RC4C2 - Top-of-Stack Cable Mating Connector (Male)

This full-profile male pre-wired cable connector is used at the top of an RC board stacking application.
Contact spacing: 0.075" (1.91mm)

DIMENSIONS



Sample Part Number Format: RC4C2-052-181-57ED



SERIES
AirBorn RC Stackable
Compliant
Full-Profile
Four rows
0.075" Spacing
Top-of-Stack
Cable Mate



CONFIGURATION
028 – Four rows/7 Columns
052 – Four rows/13 Columns
076 – Four rows/19 Columns
100 – Four rows/25 Columns
128 – Four rows/32 Columns
152 – Four rows/38 Columns



CONTACT
18 – Pin, crimp, 26-24 AWG
19 – Pin, crimp, 30-28 AWG



PLATING
1 – 50 μ inches Au



HARDWARE
00 – None
57 – Guide pin, non-polarized
61 – Jackscrew, hex, turning*



TYPE
XX – See Wire Codes



VARIATION
Blank – None
XXX – Consult factory

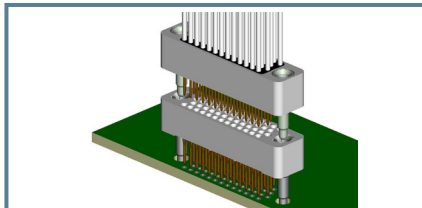
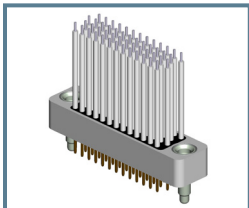
WIRE CODES

TYPE and COLOR			LENGTH	
Code	Size	Color	Code	Length (+1"/-0")
Mil-W-16878/4				
C	24 awg	Ten repeating	A	6"
D	24 awg	White	B	12"
E	26 awg	Ten repeating	C	18"
F	26 awg	White	D	24"
G	28 awg	Ten repeating	E	30"
H	28 awg	White	F	36"
J	30 awg	Ten repeating	G	42"
K	30 awg	White	H	48"
Mil-W-22759/33				
N	24 awg	Ten repeating	J	54"
P	24 awg	White	K	60"
R	26 awg	Ten repeating	L	66"
S	26 awg	White	M	72"
T	28 awg	Ten repeating	N	84"
U	28 awg	White	P	96"
V	30 awg	Ten repeating	R	108"
W	30 awg	White	S	120"

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

MATED HEIGHT

Connector body height is 0.325" and is designed to mount flush to the mating connector.



NOTES

* To use the -61 jackscrew hardware option, the fixed jacknut hardware (-XXFT) must be in place on the mating board connector.

MATERIALS and FINISHES

Contact:BeCu per ASTM B196 or B197 (BeCu alloy 172 or 173)
Contact Finish: Gold per MIL-G-45204 over nickel per QQ-N-290
Molded Insulator: Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519
Hardware:Stainless steel per ASTM A484/A484M and ASTM A582/A582M, Passivated per SAE AMS-2700

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

PERFORMANCE

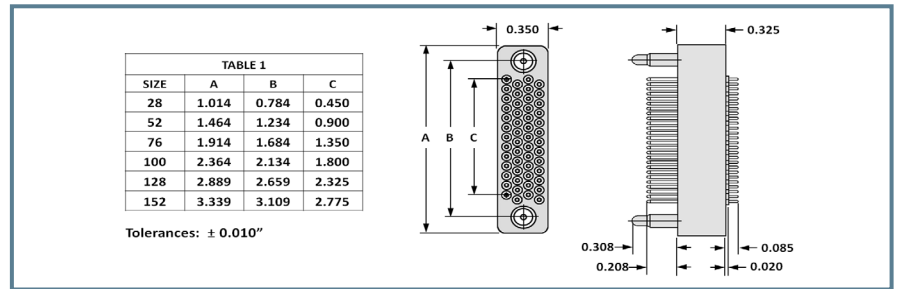
Contact Rating: 3 amperes
Operating Temperature: -65° C to +125° C
Insulation Resistance: 5,000 megaohms minimum at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 0.0226" dia. test pin

RC4C2C-PNB-1G

RC4C2 - Top-of-Stack Flex Circuit Mating Connector (Male)

This full-profile, flex-circuit-ready male connector is used at the top of an RC board stack application.
Contact spacing: 0.075" (1.91mm)

DIMENSIONS



Sample Part Number Format: RC4C2-052-151-5700

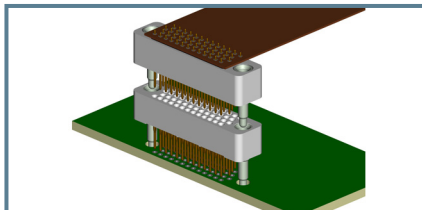
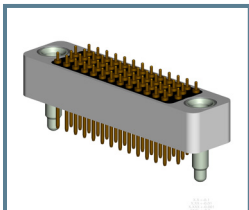
RC4C2			1			
SERIES AirBorn RC Stackable Compliant Full-Profile Four rows 0.075" Spacing Top-of-Stack Cable Mate	CONFIGURATION 028 – Four rows/7 Columns 052 – Four rows/13 Columns 076 – Four rows/19 Columns 100 – Four rows/25 Columns 128 – Four rows/32 Columns 152 – Four rows/38 Columns	CONTACT 15 – Pin, flex circuit	PLATING 1 – 50 μ inches Au	HARDWARE 00 – None 57 – Guide pin, non- polarized 61 – Jackscrew, hex, turning*	TYPE 00 – None	VARIATION Blank – None XXX – Consult factory



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

MATED HEIGHT

Connector body height is 0.325" and is designed to mount flush to the mating connector.



NOTES

- * To use the -61 jackscrew hardware option, the fixed jacknut hardware (-XXFT) must be in place on the mating board connector.

MATERIALS and FINISHES

Contact:BeCu per ASTM B196 or B197 (BeCu alloy 172 or 173)
Contact Finish: Gold per MIL-G-45204 over nickel per QQ-N-290
Molded Insulator: Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519
Hardware:Stainless steel per ASTM A484/A484M and ASTM A582/A582M,
Passivated per SAE AMS-2700

NOTE:Molex 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 at 500 VDC
Durability:500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min. with 0.0226" dia. test pin

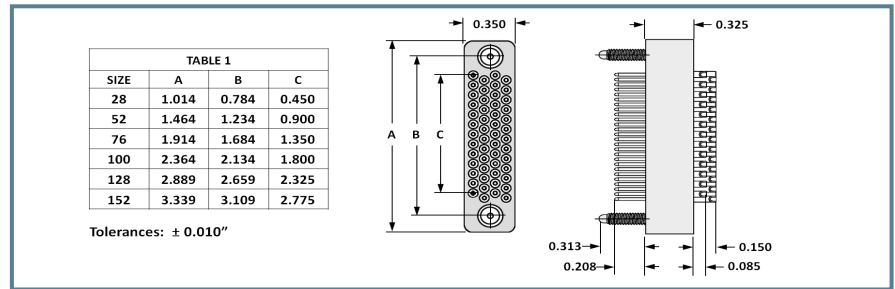
RC4C2F-PNB-1G

RC4C2 - Top-of-Stack Solder Cup Cable Mating Connector (Male)

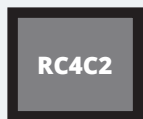
This full-profile, wire-ready male connector is used at the top of an RC board stack application.

Contact spacing: 0.075" (1.91 mm)

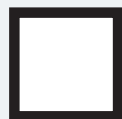
DIMENSIONS



Sample Part Number Format: RC4C2-052-111-6100



SERIES
AirBorn RC Stackable
Compliant
Full-Profile
Four rows
0.075" Spacing
Top-of-Stack
Cable Mate



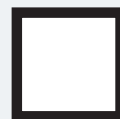
CONFIGURATION
028 – Four rows/Seven
Columns
052 – Four rows/13
Columns
076 – Four rows/19
Columns
100 – Four rows/25
Columns
128 – Four rows/32
Columns
152 – Four rows/38
Columns



CONTACT
11 – Pin, solder cup



PLATING
1 – 50 μ inches
Au



HARDWARE
00 – None
57 – Guide pin, non-polarized
61 – Jackscrew, hex, turning*



TYPE
00 – None



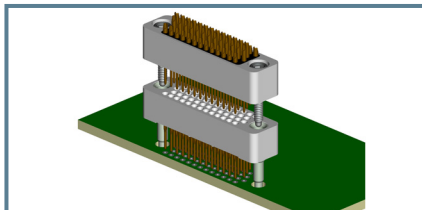
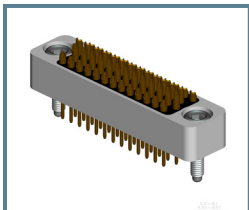
VARIATION
Blank – None
XXX – Consult factory



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

MATED HEIGHT

Connector body height is 0.325" and is designed to mount flush to the mating connector.



NOTES

* To use the -61 jackscrew hardware option, the fixed jacknut hardware (-XXFT) must be in place on the mating board connector.

MATERIALS and FINISHES

Contact:BeCu per ASTM B196 or B197 (BeCu alloy 172 or 173)
Contact Finish: Gold per MIL-G-45204 over nickel per QQ-N-290
Molded Insulator: Glass-filled polyphenylene sulfide (PPS) per MIL-M-24519
Hardware:Stainless steel per ASTM A484/A484M and ASTM A582/A582M,
passivated per SAE AMS-2700

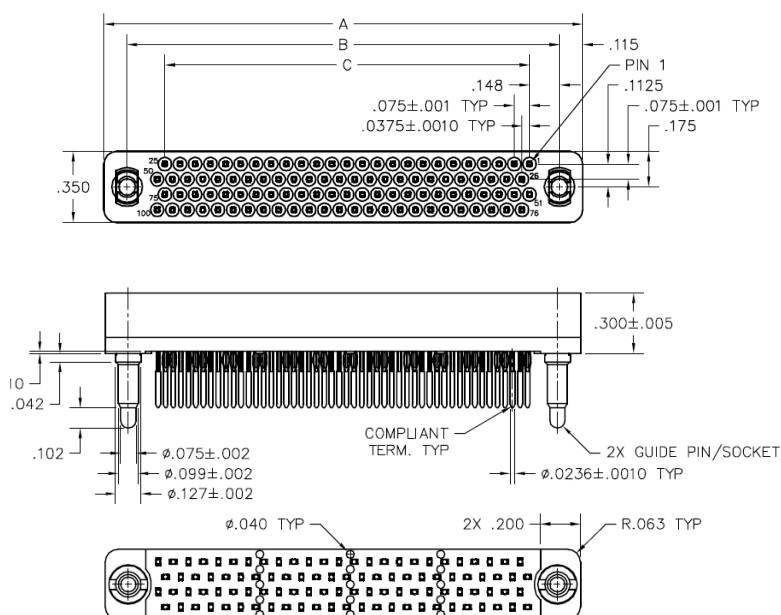
NOTE:Molex can manufacture special configurations to your exact specifications.

PERFORMANCE

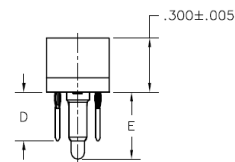
Contact Rating: 3 amperes
Operating Temperature: -65° C to +125° C
Insulation Resistance: 5,000 megaohms minimum at 500 VDC
Durability: 500 connector mating cycles
Contact Resistance: 3 to 5 milliohms (contact length dependent)
Contact Engagement Force: 4.0oz (113 g) max. with 0.0246" dia. test pin
Contact Separation Force: 0.5oz (14 g) min.with 0.0226" dia. test pin

RC4C2S-PNB-1G

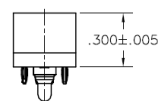
AIRBORN RC SERIES FOUR-ROW DIMENSIONS



BODY STYLE
422

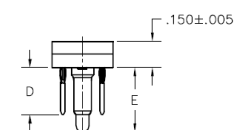


BODY STYLE
422



CONTACT/HARDWARE
OPTION 101
(TERMINATES CIRCUIT)

BODY STYLE
442



OPTIONAL INSULATOR FOR TOP CONNECTOR
WITH TERMINATION OPTIONS: 301, 311, 321,
331, 341, 351, 361, 371 AND 381
(w/CIRCUIT TEST POINT).

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	5.500

TABLE 1		
CONTACT TERMINATION	CONTACT D	HARDWARE E
201, 301	0.270	0.370
211, 311	0.300	0.400
221, 321	0.400	0.500
231, 331	0.500	0.600
241, 341	0.700	0.800
251, 351	0.800	0.900
261, 361	0.900	1.000
271, 371	0.600	0.700
281, 381	1.000	1.100
101	0.095	0.195

PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0oz. copper
Board thickness: 0.058" minimum
Drilled hole: Ø 0.033"

Copper plating thickness: 0.0020"
Tin-lead plating thickness: 0.0005"
Finished hold diameter: Ø 0.028" (Ø 0.028" ±0.002" required)

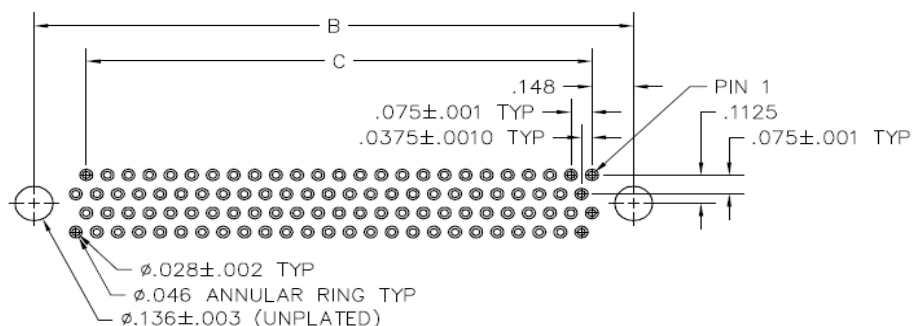
RC-DIM-1A

AIRBORN RC SERIES FOUR-ROW DRAWINGS

Board Footprint and Dimensions

SIZE	CONTACT ID	SIZE	CONTACT ID
28		152	
52		200	
76		252	
100		300	
128			

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	5.500



PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

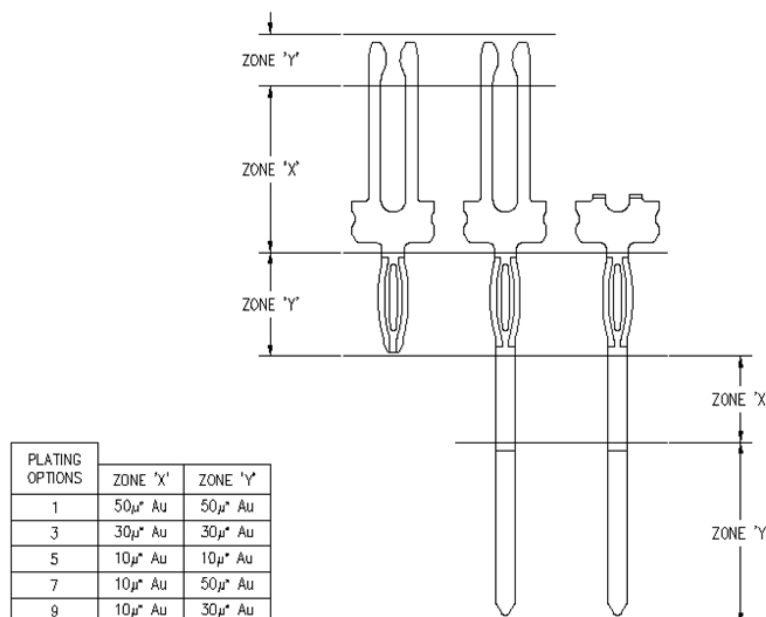
Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: ϕ 0.033"

Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: ϕ 0.028" (ϕ 0.028" $\pm$ 0.002" required)

RC-PCB-1B

AIRBORN RC SERIES FOUR-ROW DIMENSIONS

Plating Options



Determining the Required Termination Lead Length

To calculate the required termination lead length, use the example below. Measurements listed are in inches.

Dimension A = 0.720

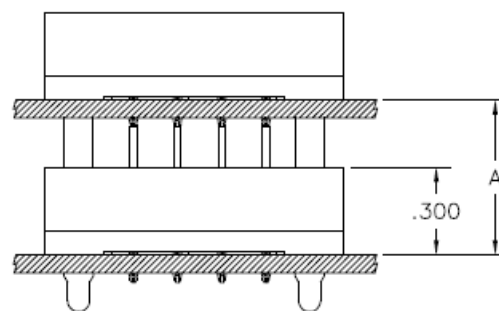
$0.720 - 0.300$ (insulator height) = 0.420

$0.420 + 0.114$ (minimum pin engagement) = 0.534

$0.420 + 0.214$ (maximum pin engagement) = 0.634

In this example, the termination option to choose is 0.600 lead length.

The contact termination option will be a length that falls between the calculated numbers resulting from using the minimum and maximum pin engagement.



PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper

Board thickness: 0.058" minimum

Drilled hole: Ø 0.033"

Copper plating thickness: 0.0020"

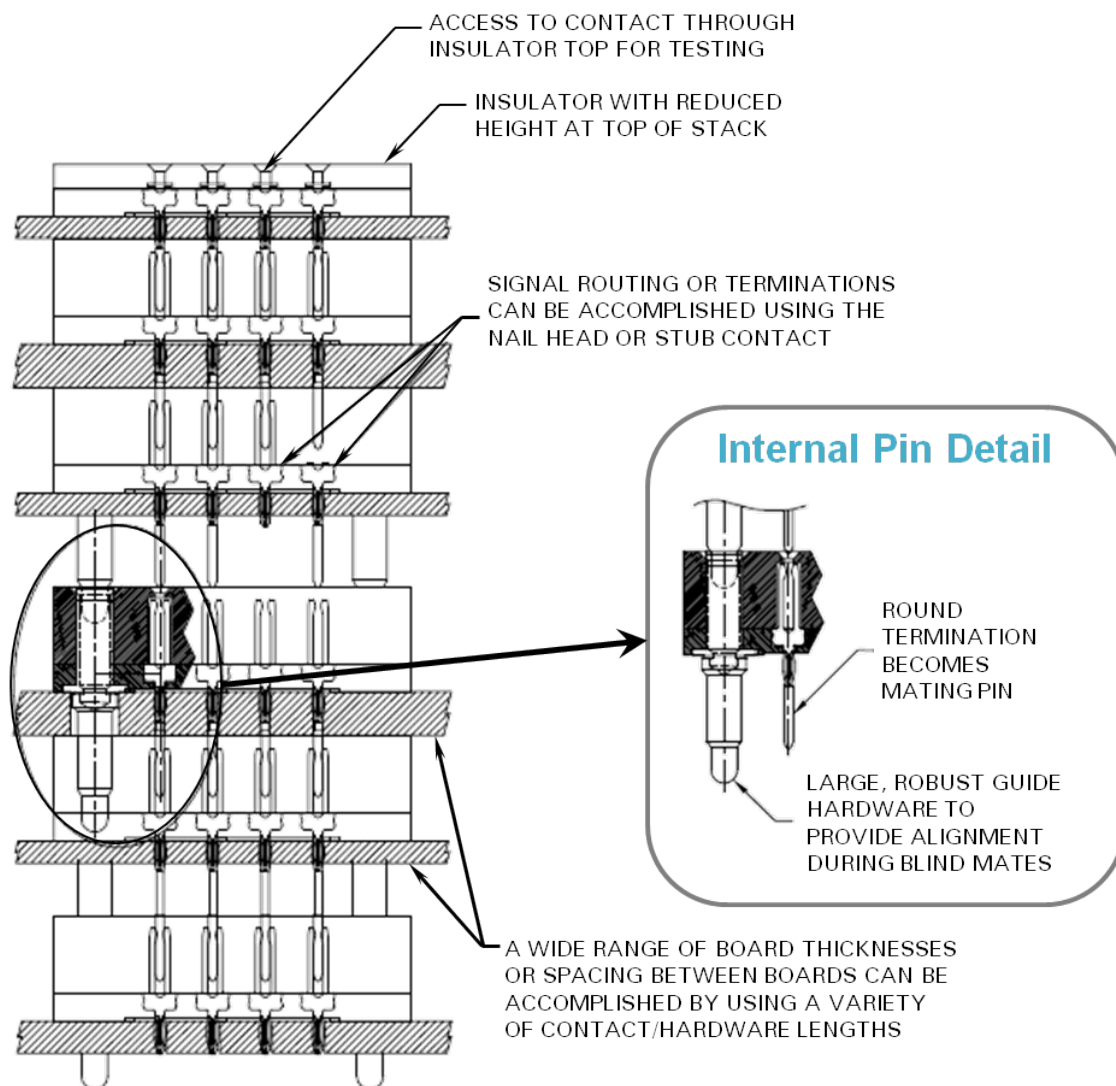
Tin-lead plating thickness: 0.0005"

Finished hold diameter: Ø 0.028" (Ø 0.028" ±0.002" required)

RC-DIM-2A

AIRBORN RC SERIES FOUR-ROW DRAWINGS

Stacking Detail



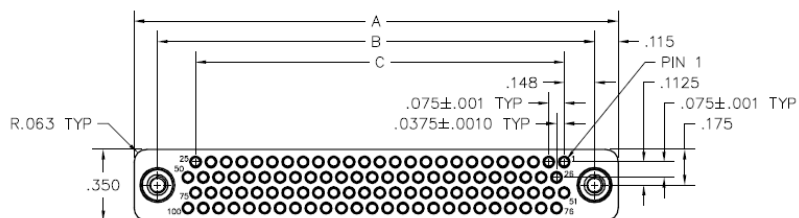
PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: $\varnothing$ 0.033"

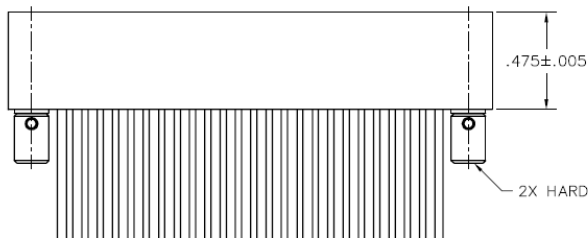
Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: $\varnothing$ 0.028" ($\varnothing$ 0.028" $\pm$ 0.002" required)

RC-DIM-3A

AIRBORN RC SERIES FOUR-ROW, BOTTOM-COMPLIANT DIMENSIONS



.350



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

GUIDE SOCKET



HARDWARE STYLE 58

#2-56 JACKSOCKET



HARDWARE STYLE 62

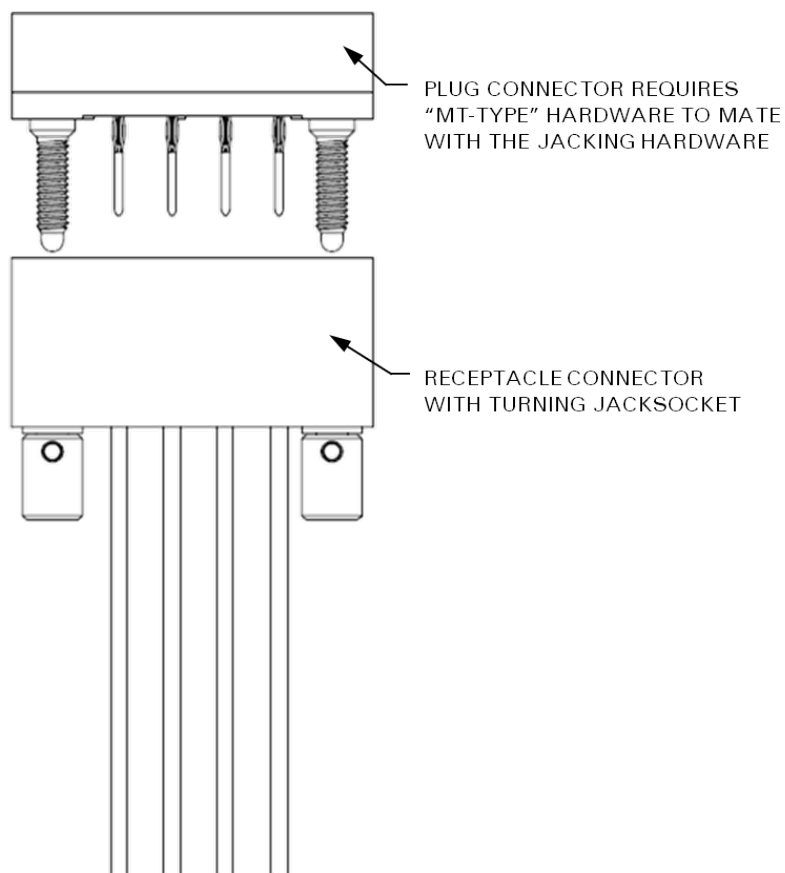
PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: Ø 0.033"

Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: Ø 0.028" (Ø 0.028" ±0.002" required)

RC-DIM-4A

AIRBORN RC SERIES FOUR-ROW, BOTTOM-COMPLIANT DRAWINGS



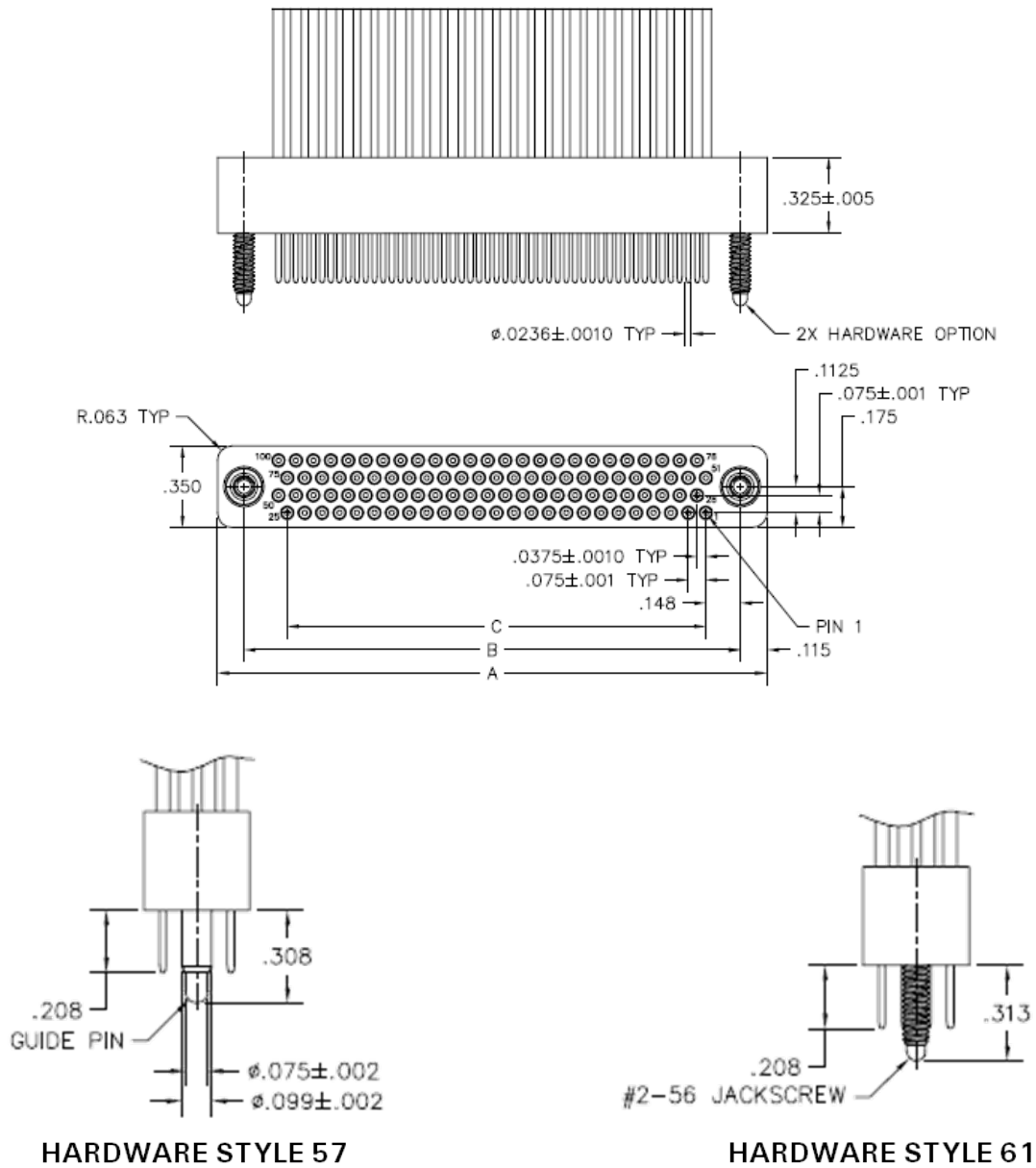
PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: $\varnothing$ 0.033"

Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: $\varnothing$ 0.028" ($\varnothing$ 0.028" $\pm$ 0.002" required)

RC-DIM-5A

AIRBORN RC SERIES FOUR-ROW, TOP-COMPLIANT DIMENSIONS



HARDWARE STYLE 57

HARDWARE STYLE 61

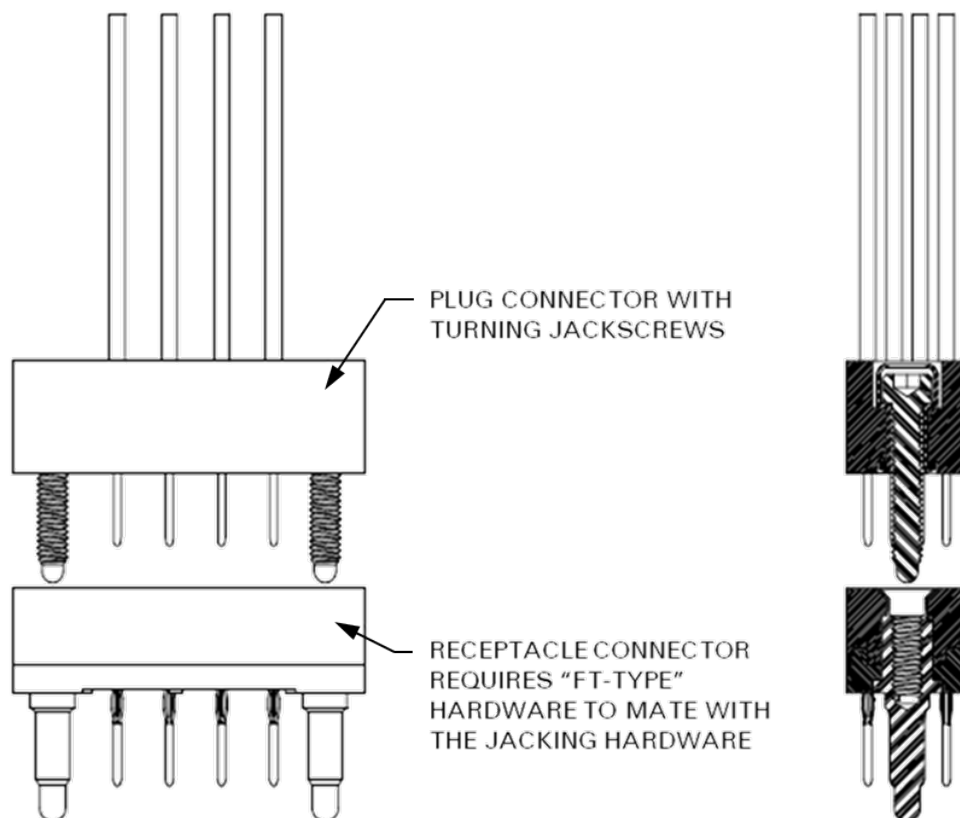
PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: $\phi 0.033$ "

Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: $\phi 0.028$ " ($\phi 0.028 \pm 0.002$ " required)

RC-DIM-6A

AIRBORN RC SERIES FOUR-ROW TOP-COMPLIANT DRAWINGS

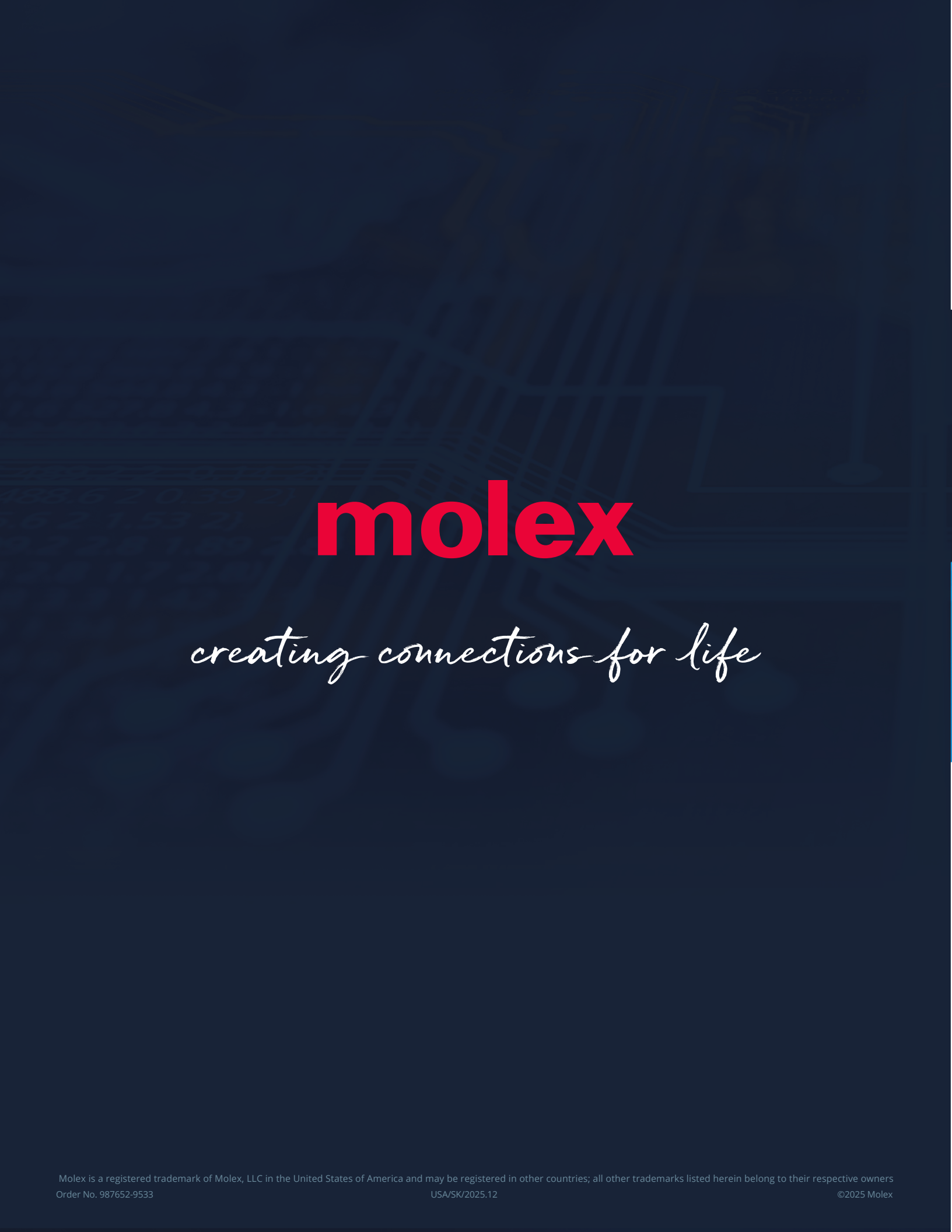


PWB-PLATED THROUGH-HOLE RECOMMENDATIONS:

Board material: FR-4 (or equivalent) with 1.0 oz. copper
 Board thickness: 0.058" minimum
 Drilled hole: $\varnothing$ 0.033"

Copper plating thickness: 0.0020"
 Tin-lead plating thickness: 0.0005"
 Finished hold diameter: $\varnothing$ 0.028" ($\varnothing$ 0.028" $\pm$ 0.002" required)

RC-DIM-7A



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