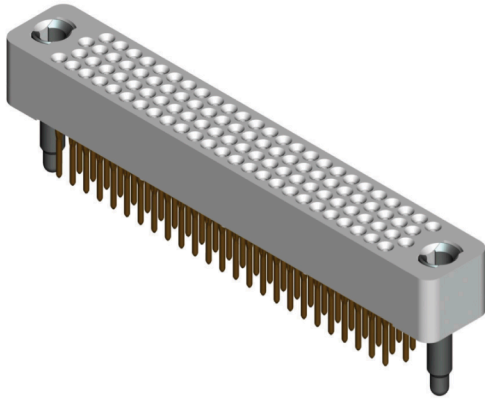


STACKABLE, PRESS-FIT, COMPLIANT PIN/SOCKET



A high-density, press-fit mounted connector using patented stacking contacts consisting of a female/compliant/male configuration used in board-to-board stacking applications. Aligned field connector contact configurations for improved signal integrity are also available.

FEATURES and BENEFITS

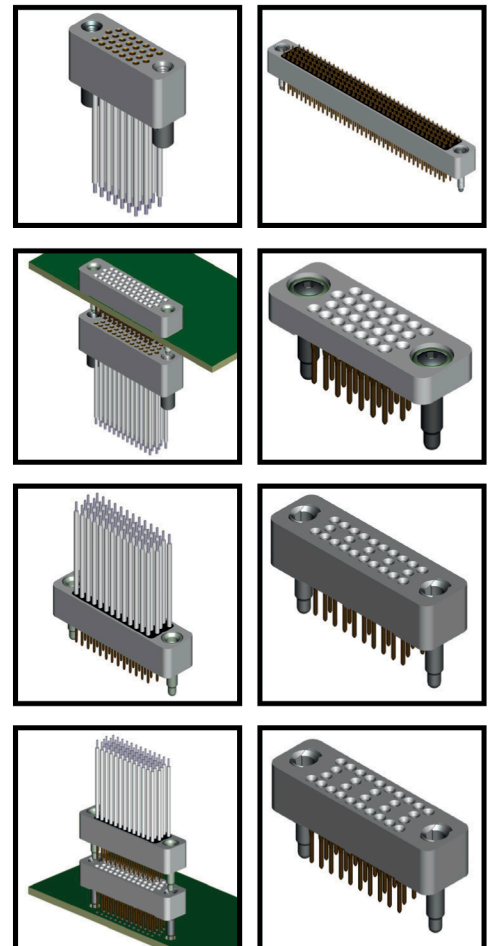
- This is a COTS connector with less than four weeks' lead time
- RCII is optimized for signal routing; both single-ended and differential
- Board-to-board offering plus cable-to-board and flex-to-board; both high-speed and power
- Reliable "eye-of-the-needle"-compliant section design eliminates soldering
- BeCu contacts (special high-conductivity, high-temperature alloy)
- Contacts with different tail lengths can be selectively loaded in any pattern per customer requirement
- Long "wipe", high "normal force", redundant "crossed cylinder" contact interface design provides a very reliable electrical connection

MATERIALS

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

PERFORMANCE

Current Rating 3.0 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



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SI PERFORMANCE FOR MATED PAIRS and TYPICAL PCB FOOTPRINT

PIN COUNT

SIZE	A	B	C
28	1,014	784	450
52	1,464	1,234	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

RCII 3-ROW

SIZE	A	B	C
28	1,335	1,000	475
50	2,005	1,780	1,450
75	2,785	2,555	2,225
100	3,565	3,330	3,000

RCII 4-ROW

SIZE	A	B	C
30	1,335	1,000	475
60	2,005	1,780	1,450
90	2,785	2,555	2,225
120	3,565	3,330	3,000

RC 4-ROW

7 pins/row = 28 total pins

13 pins/row = 52 total pins

19 pins/row = 76 total pins

25 pins/row = 100 total pins

32 pins/row = 128 total pins

38 pins/row = 152 total pins

50 pins/row = 200 total pins

63 pins/row = 252 total pins

75 pins/row = 300 total pins

RC 4 ROW

1 Bank

2 Banks

3 Banks

4 Banks

RCII 3 ROW

1 Bank

2 Banks

3 Banks

4 Banks

PCB FOOTPRINT

RC 4 ROW

RCII 3 ROW

RCII 4 ROW

RC 4-Row

1	2	3	4	5	6	7
GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND

RCII 3-Row

Total # of pins per bank = 25 pins

1	2	3	4	5	6	7	8	9	10
GND	P	N	GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND	P	N	GND

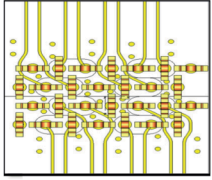
RCII 4-Row

Total # of pins per bank = 30 pins

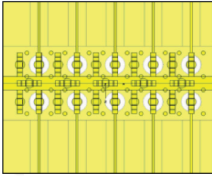
1	2	3	4	5	6	7	8	9	10
GND	P	N	GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND	P	N	GND
GND	P	N	GND	P	N	GND	P	N	GND

TYPICAL PIN-OUT

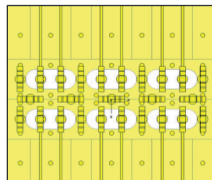
RC 4 Row, Differential 100 ohm		
Signal Integrity Performance (Connectors only)		
1	Diff. Insertion Loss	5 GHz @ -3dB
2	Diff. Return Loss	2.0 GHz @ -8dB
3	NEXT	4.0 GHz @ -25dB
4	FEXT	4.0 GHz @ -35dB



RC II 3 and 4 Row, Single Ended 50 ohm		
Signal Integrity Performance (Connectors only)		
1	S.E. Insertion Loss	6 GHz @ -3dB
2	S.E. Return Loss	4.0 GHz @ -20dB
3	NEXT	4.0 GHz @ -35dB
4	FEXT	4.0 GHz @ -30dB



RC II 3 & 4 Row, Differential 100 ohm		
Signal Integrity Performance (Connectors only)		
1	Diff. Insertion Loss	6 GHz @ -3dB
2	Diff. Return Loss	4.6 GHz @ -20dB
3	NEXT	4.0 GHz @ -50dB
4	FEXT	4.0 GHz @ -48dB



SI PERFORMANCE DATA

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PATENT PENDING