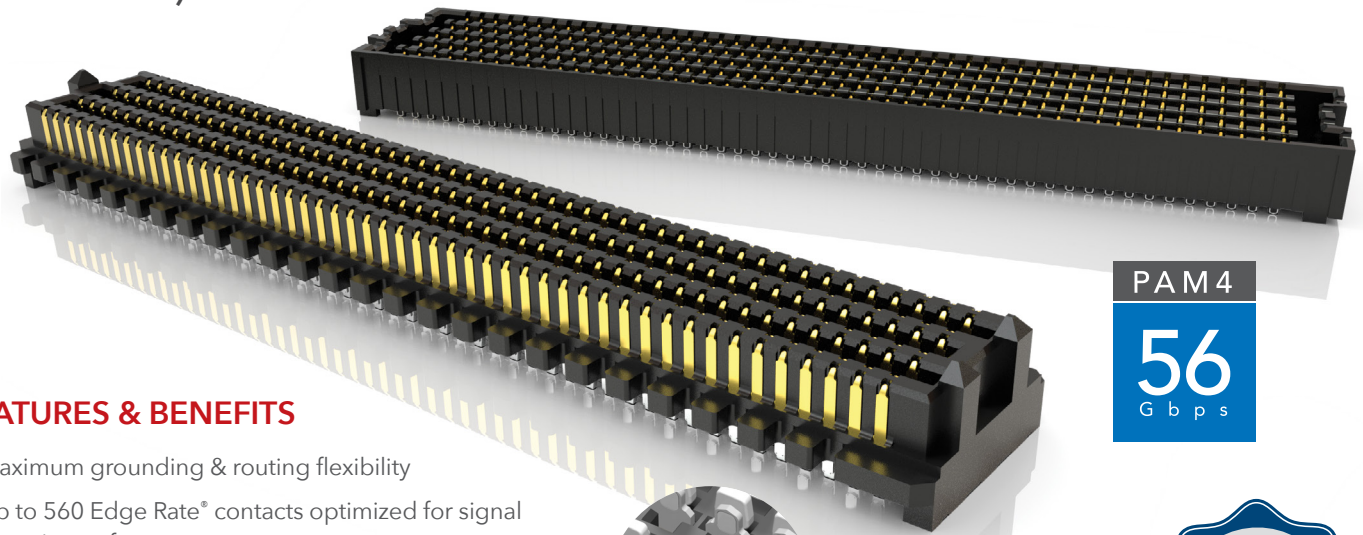




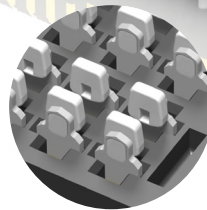
HIGH-DENSITY OPEN-PIN-FIELD ARRAYS

(1.27 mm) .050" PITCH

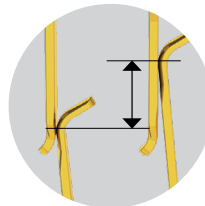


FEATURES & BENEFITS

- Maximum grounding & routing flexibility
- Up to 560 Edge Rate® contacts optimized for signal integrity performance.
- 7 mm to 40 mm stack heights
- Variety of designs and options: Right-Angle, Guide Posts, 85 Ω Elevated Risers, 85 Ω Tuned, Press-Fit and Press-Fit Right-Angle, Guide Post Field Termination Kits
- Cable mates (SEAC Series) and Jack Screw Standoffs (JSO Series) also available
- Standards: VITA 47, VITA 57.1 FMC, VITA 57.4 FMC+, VITA 74 VNX, PISMO™ 2
- Supports high-speed protocols such as Ethernet, PCI Express®, Fibre Channel & InfiniBand™
- Severe Environment Testing qualified (SEAM/SEAF); aligns with MIL-DTL-55302. Visit samtec.com/set



Solder Charges



(1.12 mm) .044"
Nominal Wipe

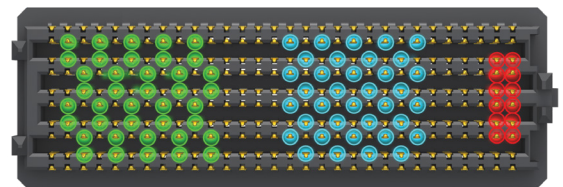
**EDGE
RATE®**
CONTACT

PAM 4

56
G b p s



MAXIMUM GROUNDING & ROUTING FLEXIBILITY



Differential Pair

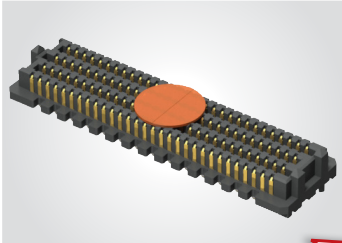
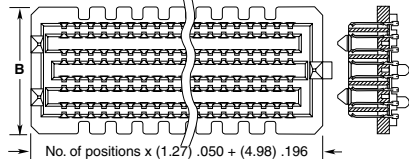
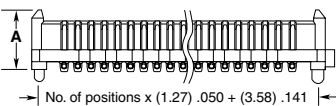
Single-Ended

Power

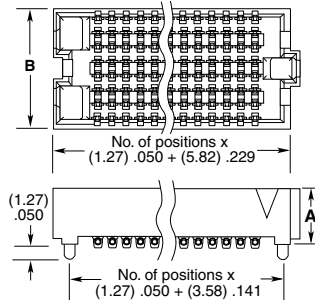
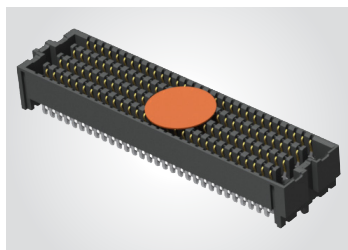
SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
SEAM/SEAF	Black LCP	Copper Alloy	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC	Yes
SEAM-RA/SEAF-RA	Black LCP	Copper Alloy	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	1.9 A (10 pins powered)	260 VAC	Yes
SEAM-GP	Black LCP	Copper Alloy	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC	Yes
SEAMP/SEAFP	Natural High Temp Nylon	Copper Alloy (SEAMP) BeCu Alloy (SEAFP)	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	1.9 A (6 pins powered)	225 VAC	Not Available
SEAR	Black LCP	Hard Gold Plated	Au over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	Contact Samtec	240 VAC	Not Available
SEAMI	Black LCP	Copper Alloy	Au or Sn over 50 μ " (1.27 μ m) Ni	-55 °C to +125 °C	Not Available	Not Available	Yes

Note: Some lengths, styles and options are non-standard, non-returnable

(1.27 mm) .050" PITCH • SEAM/SEAF SERIES

SERIES	POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	K	"X" R																
SEAM Terminal	-10, -15, -20, -30, -40, -50	Specify LEAD STYLE from chart	-L = 10 μ" (0.25 μm) Gold on contact area, Matte Tin on solder tail	-04 -05 -06 -08 -10	-1 = Tin/ Lead Alloy Solder Charge		-A = Alignment Pin																	
SEAF Socket	SEAM & SEAF: -10 only available in -04 Row		-S = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on solder tail	(SEAM -04, -05 & -06 Rows not available with -06.5 Lead Style)	-2 = Lead- Free Solder Charge		-K Polyimide Film Pick & Place Pad																	
	SEAM: -15 only available in -04 Row with -02.0 Lead Style, and -10 Row with any Lead Style		-STL = 30 μ" (0.76 μm) Gold on contact area, Tin/Lead on solder tail				-TR = Tape & Reel																	
	SEAF: -15 only available in -04 or -10 Row with -5.0 Lead Style		-P = SureCoat™ 3 μ" (0.07 μm) Gold Flash and 30 μ" (0.76 μm) Palladium Nickel on contact area, Matte Tin on solder tail (-02.0 and -05.0 Lead Styles only)				-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)																	
SEAM Board Mates: SEAF, SEAFP Standoffs: JSO						<table><tr><th>NO. OF ROWS</th><th>B</th></tr><tr><td>-04</td><td>(7.06) .278</td></tr><tr><td>-05, -06</td><td>(9.60) .378</td></tr><tr><td>-08</td><td>(12.14) .478</td></tr><tr><td>-10</td><td>(14.68) .578</td></tr></table>			NO. OF ROWS	B	-04	(7.06) .278	-05, -06	(9.60) .378	-08	(12.14) .478	-10	(14.68) .578						
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-08	(12.14) .478																							
-10	(14.68) .578																							
ALSO AVAILABLE See website for 14 row option.		View complete specifications at: samtec.com?SEAM		<table><tr><th>LEAD STYLE</th><th>A</th></tr><tr><td>-02.0</td><td>(5.61) .221</td></tr><tr><td>-03.0</td><td>(6.60) .260</td></tr><tr><td>-03.5</td><td>(7.11) .280</td></tr><tr><td>-06.5</td><td>(10.16) .400</td></tr><tr><td>-07.0</td><td>(10.59) .417</td></tr><tr><td>-09.0</td><td>(12.60) .496</td></tr><tr><td>-11.0</td><td>(14.61) .575</td></tr></table>  					LEAD STYLE	A	-02.0	(5.61) .221	-03.0	(6.60) .260	-03.5	(7.11) .280	-06.5	(10.16) .400	-07.0	(10.59) .417	-09.0	(12.60) .496	-11.0	(14.61) .575
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-11.0	(14.61) .575																							

SEAF
Board Mates:
SEAM, SEAMP,
SEAR, SEAMI
Standoffs:
JSO



LEAD STYLE	A	NO. OF ROWS	B
-05.0	(5.05) .199	-04	(5.66) .223
-06.0	(6.05) .238	-05, -06	(8.20) .323
-06.5	(6.55) .258	-08	(10.74) .423
-07.5	(7.54) .297	-10	(13.28) .523

View complete specifications at: samtec.com?SEAF

MATED HEIGHTS				
SEAM LEAD STYLE	SEAF LEAD STYLE			
	-05.0	-06.0	-06.5	-07.5
-02.0	7 mm	8 mm	8.5 mm	9.5 mm
-03.0	8 mm	9 mm	9.5 mm	10.5 mm
-03.5	8.5 mm	9.5 mm	10 mm	11 mm
-06.5	11.5 mm	12.5 mm	13 mm	14 mm
-07.0	12 mm	13 mm	13.5 mm	14.5 mm
-09.0	14 mm	15 mm	15.5 mm	16.5 mm
-11.0	16 mm	17 mm	17.5 mm	18.5 mm

STANDARDS

VITA 47
VITA 57.1 FMC
VITA 57.4 FMC+
VITA 74 VNX
PISMO™ 2

Visit www.samtec.com/standards
for more information.

Notes:
IPC-A-610F and
IPC J-STD-001F Class 3 solder joint.

Severe Environment Testing qualified; aligns
with MIL-DTL-55302. Visit samtec.com/set

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[SEAF-50-05.0-STL-04-1-A-K-TR](#) [SEAF-40-06.5-STL-10-1-A-K-TR](#) [SEAF-30-05.0-STL-06-1-A-K-TR](#) [SEAF-15-05.0-STL-04-1-A-K-TR](#) [SEAF-50-07.5-L-05-2-A-K-TR](#) [SEAF-50-05.0-STL-08-1-A-K-TR](#) [SEAF-50-07.5-STL-04-1-A-K-TR](#) [SEAF-50-06.0-STL-08-1-A-K-TR](#) [SEAF-30-06.5-STL-06-1-A-K-TR](#) [SEAF-30-07.5-L-05-2-A-K-TR](#) [SEAF-40-05.0-STL-10-1-A-K-TR](#) [SEAF-30-06.5-STL-05-1-A-K-TR](#) [SEAF-40-07.5-S-05-2-A-K-TR](#) [SEAF-20-05.0-STL-08-1-A-K-TR](#) [SEAF-40-05.0-STL-06-1-A-K-TR](#) [SEAF-40-05.0-STL-04-1-A-K-TR](#) [SEAF-40-07.5-L-05-1-A-K-TR](#) [SEAF-20-07.5-STL-08-1-A-K-TR](#) [SEAF-50-06.5-STL-08-1-A-K-TR](#) [SEAF-20-07.5-STL-04-1-A-K-TR](#) [SEAF-20-05.0-STL-10-1-A-K-TR](#) [SEAF-50-07.5-S-10-1-A-K-TR](#) [SEAF-20-05.0-STL-04-1-A-K-TR](#) [SEAF-40-07.5-L-08-1-A-K-TR](#) [SEAF-30-07.5-S-05-1-A-K-TR](#) [SEAF-10-05.0-STL-04-1-A-K-TR](#) [SEAF-40-07.5-S-04-1-A-K-TR](#) [SEAF-40-05.0-S-10-1-A-K-FR](#) [SEAF-10-05.0-L-04-1-A-K-FR](#) [SEAF-20-05.0-STL-04-1-A-K-FR](#) [SEAF-30-06.5-STL-06-1-A-K-FR](#) [SEAF-20-05.0-STL-10-1-A-K-FR](#) [SEAF-20-06.0-S-04-1-A-K-FR](#) [SEAF-20-06.5-L-04-2-A-K-FR](#) [SEAF-40-01-L-08-1-RA-LP-TR](#) [SEAF-40-05.0-STL-06-1-A-K-FR](#) [SEAF-50-06.0-STL-08-1-A-K-FR](#) [SEAF-40-07.5-L-05-1-A-K-FR](#) [SEAF-30-05.0-STL-06-1-A-K-FR](#) [SEAF-20-01-S-10-2-RA-GP-K-FR](#) [SEAF-40-01-L-04-2-RA-K-FR](#) [SEAF-40-07.5-L-06-2-A-K-FR](#) [SEAF-30-01-L-04-1-RA-GP-FR](#) [SEAF-50-01-S-08-2-RA-GP-K-FR](#) [SEAF-40-06.0-S-10-2-A-K-FR](#) [SEAF-30-05.0-L-06-1-A-LP-K-FR](#) [SEAF-40-07.5-L-04-2-A-K-FR](#) [SEAF-50-06.5-S-06-1-A-K-FR](#) [SEAF-50-06.5-STL-08-1-A-K-FR](#) [SEAF-50-05.0-STL-04-1-A-K-FR](#) [SEAF-30-06.0-S-04-1-A-K-FR](#) [SEAF-40-01-S-08-2-RA-GP-FR](#) [SEAF-15-05.0-L-04-1-A-K-FR](#) [SEAF-20-06.0-L-04-1-A-K-FR](#) [SEAF-50-07.5-STL-10-1-A-K-TR](#)