SEARRAY™

HIGH-DENSITY OPEN-PIN-FIELD ARRAYS

## (1.27 mm) .050" PITCH

PAM4

56 Gbps
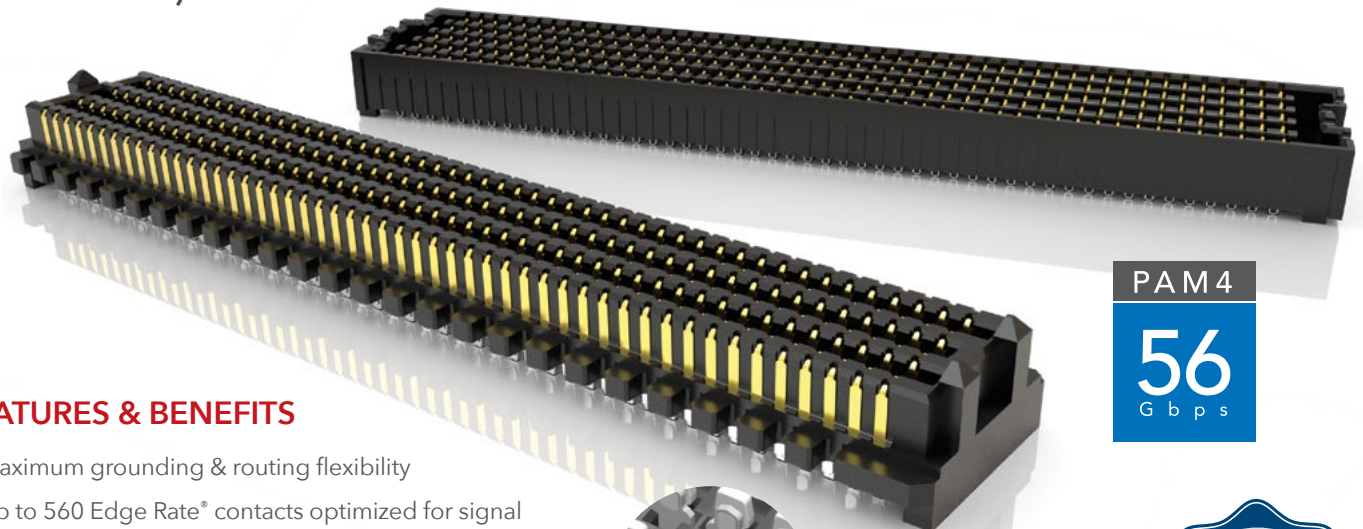
FEATURES & BENEFITS

- 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**
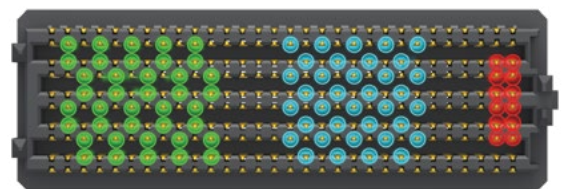
Solder Charges
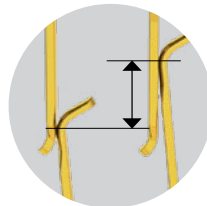
EDGE RATE® CONTACT

10 YEAR MFG WITH 30 μ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

(1.12 mm) .044" Nominal Wipe

MAXIMUM GROUNDING & ROUTING FLEXIBILITY

Differential Pair   Single-Ended   Power

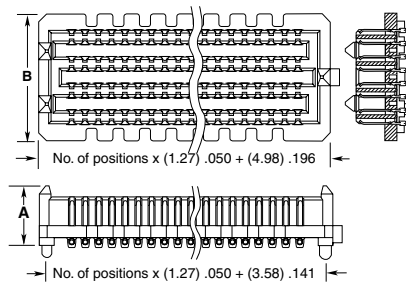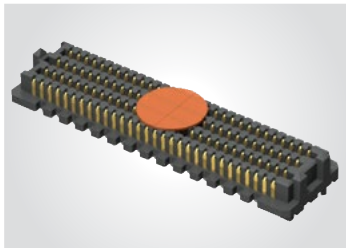| SERIES	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	LEAD-FREE SOLDERABLE
SEAM/SEAF	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.7 A (10 pins powered)	240 VAC	Yes
SEAM-RA/SEAF-RA	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) 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 μm) 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 μm) 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 μm) 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 μm) Ni	-55 °C to +125 °C	Not Available	Not Available	Yes

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

| SERIES | – | POSITIONS PER ROW | – | LEAD STYLE | – | PLATING OPTION | – | NO. OF ROWS | – | SOLDER TYPE | – | A | – | K | – | "X" R |

SERIES

SEAM
Terminal

SEAF
Socket

POSITIONS PER ROW

–10, –15, –20, –30, –40, –50

SEAM & SEAF: –10 only available in -04 Row

SEAM: –15 only available in –04 Row with -02.0 Lead Style, and –10 Row with any Lead Style

SEAF: –15 only available in –04 or –10 Row with –5.0 Lead Style

LEAD STYLE

Specify LEAD STYLE from chart

PLATING OPTION

–L
= 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail

–S
= 30 µ" (0.76 µm) Gold on contact area, Matte Tin on solder tail

–STL
= 30 µ" (0.76 µm) Gold on contact area, Tin/Lead on solder tail

NO. OF ROWS

–04
–05
–06
–08
–10

(SEAM –04, -05 & –06 Rows not available with –06.5 Lead Style)

SOLDER TYPE

–1
= Tin/Lead Alloy Solder Charge

–2
= Lead-Free Solder Charge

–A
= Alignment Pin

–K
Polyimide Film Pick & Place Pad

–TR
= Tape & Reel

–FR
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SEAM

Board Mates:
SEAF, SEAFP

Standoffs:
JSO

No. of positions x (1.27) .050 + (4.98) .196

No. of positions x (1.27) .050 + (3.58) .141

View complete specifications at: **samtec.com?SEAM**

LEAD STYLE	A		NO. OF ROWS	B
–02.0	(5.61) .221		–04	(7.06) .278
–03.0	(6.60) .260		–05, –06	(9.60) .378
–03.5	(7.11) .280		–08	(12.14) .478
–06.5	(10.16) .400		–10	(14.68) .578
–07.0	(10.59) .417			
–09.0	(12.60) .496			
–11.0	(14.61) .575			

ALSO AVAILABLE
See website for 14 row option.

SEAF

Board Mates:
SEAM, SEAMP, SEAR, SEAMI

Standoffs:
JSO

No. of positions x (1.27) .050 + (5.82) .229

(1.27) .050

No. of positions x (1.27) .050 + (3.58) .141

View complete specifications at: **samtec.com?SEAF**
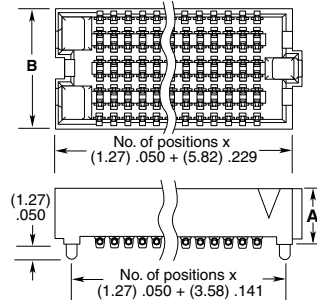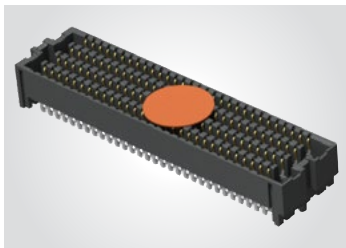
LEAD STYLE	A		NO. OF ROWS	B
–05.0	(5.05) .199		–04	(5.66) .223
–06.0	(6.05) .238		–05, –06	(8.20) .323
–06.5	(6.55) .258		–08	(10.74) .423
–07.5	(7.54) .297		–10	(13.28) .523

STANDARDS

VITA 47

VITA 57.1 FMC

VITA 57.4 FMC+

VITA 74 VNX

PISMO™ 2

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

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

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](#):
  [SEAM-10-02.0-L-06-2-A-K-TR](#) [SEAM-10-02.0-S-06-1-A-K-TR](#) [SEAM-20-02.0-STL-04-1-A-K-TR](#) [SEAM-20-03.5-STL-04-1-A-K-TR](#) [SEAM-40-02.0-STL-14-1-A-K-TR](#) [SEAM-40-03.5-STL-14-1-A-K-TR](#) [SEAM-19-03.5-S-06-1-K-TR](#) [SEAM-50-07.0-S-06-2-A-K-FR](#)