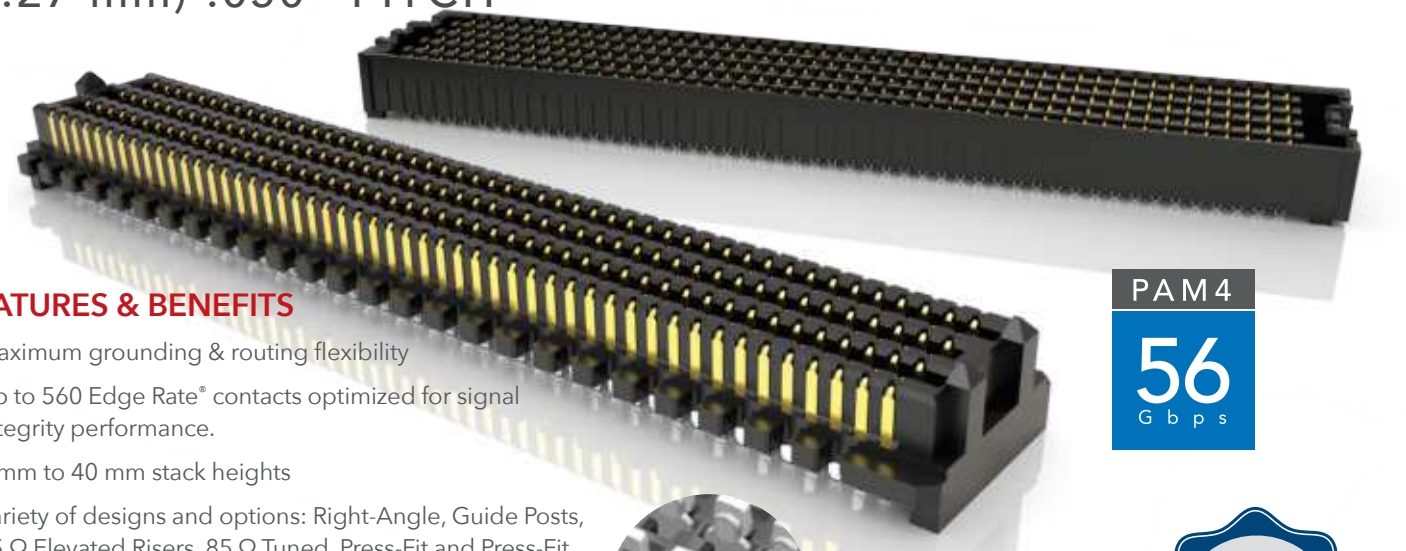
SEARAY™

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
- Analog over Array™ capable
- 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**

VITA/VNX/VNX+/FMC/FMC+/XMC/XMC+ are all respective trademarks of VITA PCI-SIG®.

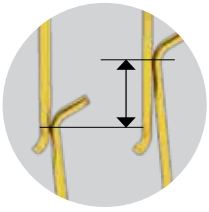
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Solder Charges

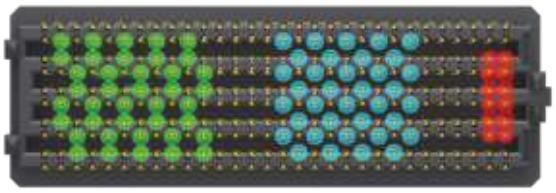
EDGE® RATE CONTACT

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/339 VDC	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)	240 VAC/339 VDC	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/339 VDC	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)	255 VAC/361 VDC	Not Available
SEAR	Black LCP	Hard Gold Plated	Au over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	1.4 A (20 pins powered)	240 VAC/339 VDC	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

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

SEARAY™

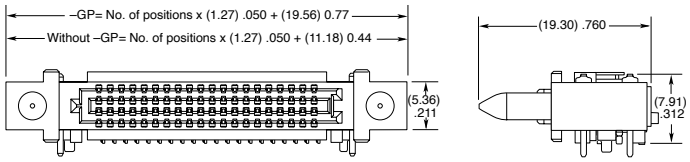
(1.27 mm) .050" PITCH • RIGHT-ANGLE & GUIDE POST

SERIES	POSITIONS PER ROW	01	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	RA	OPTIONS	"X"R
SEAM Right-Angle Terminal **SEAF** Right-Angle Socket	–20 –30 –40 –50		**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail	–04 –06 –08 –10 -08 & -10 Row options require fixturing to process	**–1** = Tin/Lead Alloy Solder Charge **–2** = Lead-Free Solder Charge		**–GP** = Guide Post/Hole **–K** = Polyimide Film Pick & Place Pad **–LP** Latch Post (Available with SEAF in -06 Row with 30 positions only; Required for mating to SEAC)	**–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SEAM-RA

Board Mates: SEAF, SEAF-RA, SEAFP

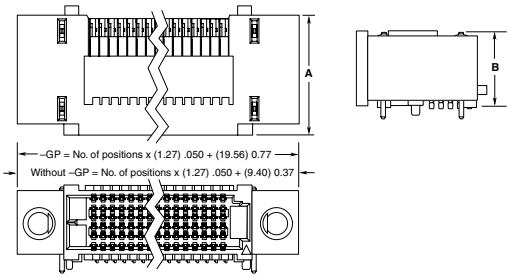




SEAF-RA

Board Mates: SEAM, SEAMP





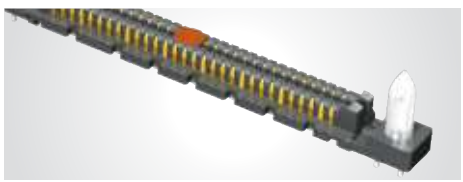
NO.PINS PER ROW	A	B
–04	(13.77) .542	(7.91) .311
–06	(16.31) .642	(10.45) .411
–08	(18.85) .742	(12.99) .511
–10	(21.39) .842	(15.53) .611

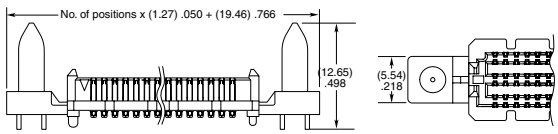
View complete specifications at: samtec.com?SEAM-RA & samtec.com?SEAF-RA

SERIES	POSITIONS PER ROW	02.0	PLATING OPTION	NO. OF ROWS	SOLDER TYPE	A	GP	K	"X"R
SEAM Terminal with Guide post	–20, –30, –40, –50		**–L** = 10 µ" (0.25 µm) Gold on contact area, Matte Tin on solder tail	–04 –06 –08 –10	**–1** = Tin/Lead Alloy Solder Charge **–2** = Lead-Free Solder Charge				**–TR** = Tape & Reel **–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SEAM-GP

Board Mates: SEAF-RA-GP





View complete specifications at: samtec.com?SEAM

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

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