SEARRAY™

HIGH-SPEED, HIGH-DENSITY CABLE ASSEMBLY

(1.27 mm) .050" PITCH

14 Gbps

FEATURES & BENEFITS

- 14 Gbps performance
- Up to 240 I/Os (1/2 of pins are dedicated to ground)
- 4, 6, 8 and 10 row designs
- Choice of Eye Speed® 36 AWG 50 Ω micro coax or 32 AWG 100 Ω twinax cable
- Positive latching when mated to SEAFC with latching post option
- Supports PCIe® 2.0 and 3.0 protocols

Guide post latching available for more rugged applications

Vertical board level mate (SEAFC); samtec.com?seafc

Eye Speed® cable for excellent signal integrity performance

KEY SPECIFICATIONS (SEAC)

CABLE	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING
36 AWG 50 Ω micro coax or 32 AWG 100 Ω twinax cable	Black LCP	Copper Alloy	Au or Sn over 50 µ" (1.27 µm) Ni	-40 °C to +125 °C (coax) -25 °C to +105 °C (twinax)	0.4 A Specified Cable Rating	120 VAC

samtec.com/searaycable

(1.27 mm) .050" PITCH • HIGH DENSITY CABLE

SEAC	–	NO. OF POSITIONS PER ROW	–	NO. OF ROWS	–	CABLE LENGTH	–	TU	–	TU	–	CABLE TYPE	–	LATCH OPTION

–020
(–04, –06, –08 & –10 row only)

–030
(–04, –06 & –08 row only)

–040
(–04 & –06 row only)

–050
(–04 row only)

–04, –06, –08, –10

–"XX.X"
= Cable Length in Inches
(101.6 mm) 04.0" minimum

Leave Blank for 36 AWG 50 Ω coax

–2
= 32 AWG 100 Ω twinax

Leave Blank for latch post

–N
= No Latch

SEAC
Mates:
SEAFC

SIGNAL ROUTING

Product has some lines dedicated to ground.

For single-ended and differential pair signal/ground assignments see signal routing information on the assembly print at www.samtec.com?seac

Design your High-Speed Cable with Samtec's High-Speed Cable Solutionator® at www.samtec.com/cablebuilder

POSITIONS PER ROW	A	B	C
–020	(30.38) 1.196	(33.53) 1.320	(48.26) 1.900
–030	(43.08) 1.696	(46.23) 1.820	(60.96) 2.400
–040	(55.78) 2.196	(58.93) 2.320	(73.66) 2.900
–050	(68.48) 2.696	(71.63) 2.820	(86.36) 3.400

ASSEMBLY LENGTH = CABLE LENGTH XX.X + (16.2) .638

B

(11.43) .450

–N (NO LATCH)

OTHER SOLUTIONS

Other end options
Mixed SEAC end types
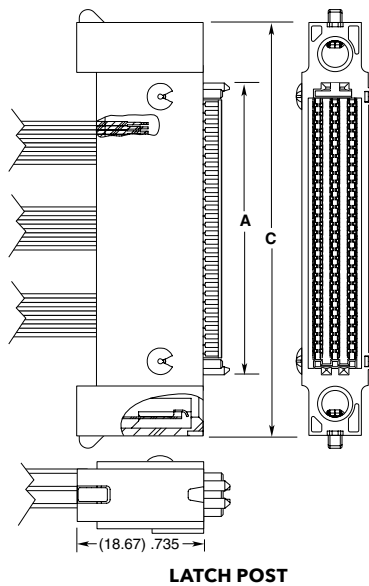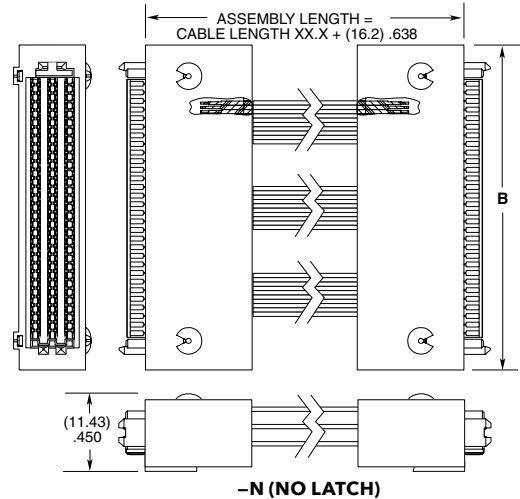300 positions or greater

A
C

Notes:
Mixed latch styles not available

Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

PCIe® 2.0 & 3.0 capable

PCI-SIG®, PCI Express® and the PCIe® design marks are registered trademarks and/or service marks of PCI-SIG.

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

(18.67) .735

LATCH POST

SEARAY™ 0.80 mm CABLE ASSEMBLY

(0.80 mm) .0315" pitch High-Speed Cable in 8 to 10 rows that mates with the SEAM8/SEAF8 Series.

For more information on the ESCA Series, visit samtec.com?ESCA