# ACCELERATE HP

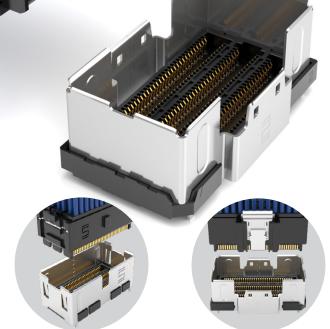
# EXTREME DENSITY CABLE SYSTEM

(0.635 mm) .025" PITCH

112 G b p s

#### **FEATURES & BENEFITS**

- Industry's highest density 112G PAM4 cable system
- 0.635 mm contact pitch; 2.20 x 2.40 mm row-to-row pitch
- 4 to 6 rows (8 rows in development); 8 or 12 pairs per row
- Up to 96 Thinax<sup>™</sup> cables in development
- Single-ended micro coax configuration
  - -34 AWG ThinSE<sup>TM</sup> coax
  - 12 or 18 coax per row
  - Dedicated G-S-G-S-G layout for reduced crosstalk
- Right-angle mating connector in development
- 112 Gbps PAM4 Gen 2 on-package system with up to 144 differential pairs and Eye Speed Thinax™ ultra performance twinax cable (ART6/ATF6); contact HDR@samtec.com for information



Locking for maximum density (removal tool required)

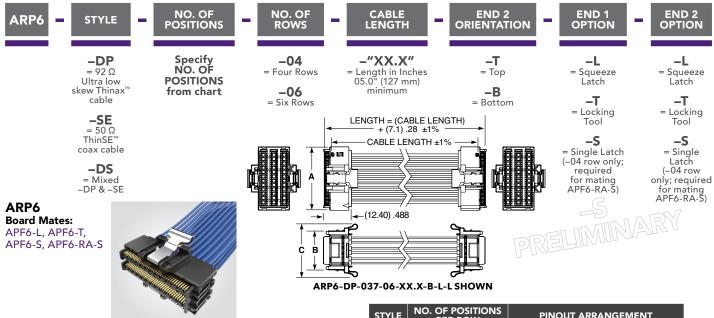
Squeeze latching for quick disconnect

## **KEY SPECIFICATIONS (ARP6)**

РІТСН	CABLE	SIGNAL ROUTING	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE
(0.635 mm) .025"	34 AWG ultra low skew Thinax™	92 $\Omega$ Differential	Black LCP	Copper Alloy	Au or Sn over 50 μ" (1.27 μm) Ni	-40 °C to +125 °C



### (0.635 mm) .025" • HIGH-DENSITY/PERFORMANCE CABLE

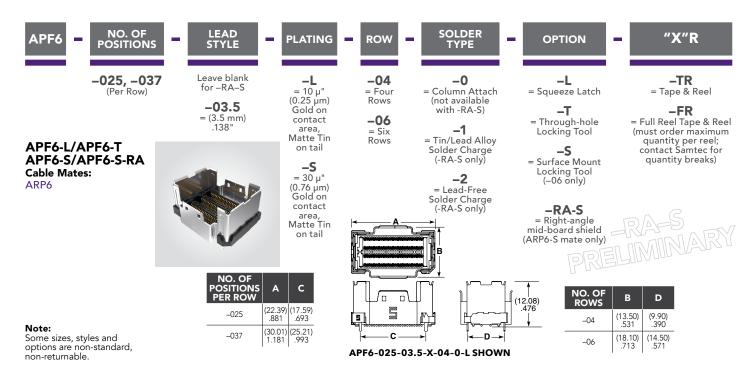


NO. OF POSITIONS PER ROW	A
-025	(20.34) .801
-037	(27.96) 1.101

NO. OF ROWS	В	С
-04	(12.54) .494	(18.58) .731
-06	(17.14) .675	(23.39) .921

STYLE	NO. OF POSITIONS PER ROW	PINOUT ARRANGEMENT
-DP	-025	8 Differential Pairs Per Row
–DP	-037	12 Differential Pairs Per Row
-SE	-025	12 Single-ended Signals Per Row
–SE	-037	18 Single-ended Signals Per Row
–DS	-025	2 Rows of 12 SE, Remaining Rows 8 DP Each
–DS	-037	2 Rows of 18 SE, Remaining Rows 12 DP Each

View complete specifications at: samtec.com?ARP6



View complete specifications at: samtec.com?APF6-L, samtec.com?APF6-T, samtec.com?APF6-S & samtec.com?APF6-RA-S