

ACCELERATE[®]HP

EXTREME DENSITY CABLE SYSTEM

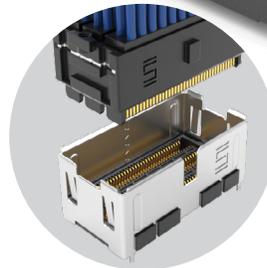
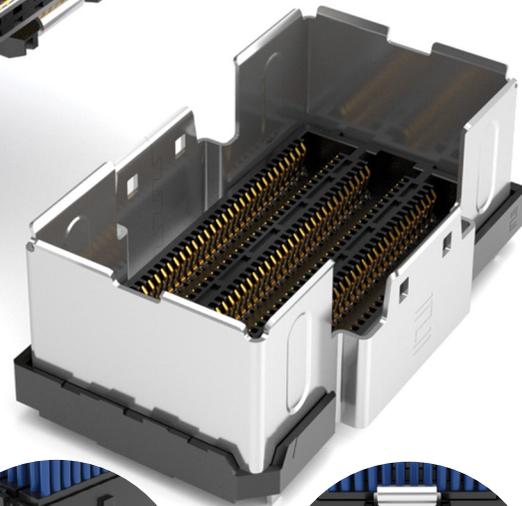
(0.635 mm) .025" PITCH

PAM4

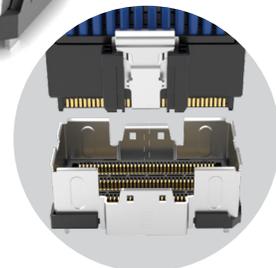
112
G b p s

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™ cables in development
- Single-ended micro coax configuration
 - 34 AWG ThinSE™ 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/ARF6-L)

PITCH	CABLE	SIGNAL ROUTING	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE
(0.635 mm) .025"	34 AWG ultra low skew Thinax™	92 Ω 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

ARP6	STYLE	NO. OF POSITIONS	NO. OF ROWS	CABLE LENGTH	END 2 ORIENTATION	END 1 OPTION	END 2 OPTION
	<p>-DP = 92 Ω Ultra low skew Thinax™ cable</p> <p>-SE = 50 Ω ThinSE™ coax cable</p> <p>-DS = Mixed -DP & -SE</p>	Specify NO. OF POSITIONS from chart	<p>-04 = Four Rows</p> <p>-06 = Six Rows</p>	<p>-"XX.X" = Length in Inches 05.0" (127 mm) minimum</p>	<p>-T = Top</p> <p>-B = Bottom</p>	<p>-L = Squeeze Latch</p> <p>-T = Locking Tool</p>	<p>-L = Squeeze Latch</p> <p>-T = Locking Tool</p>

ARP6 Board Mates:
APF6-L, APF6-T

ARP6-DP-037-06-XX.X-B-L-L SHOWN

NO. OF POSITIONS PER ROW	A	NO. OF ROWS	B	C
-025	(20.34) .801	-04	(12.54) .494	(18.58) .731
-037	(27.96) 1.101	-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

APF6	NO. OF POSITIONS	LEAD STYLE	PLATING	ROW	0	OPTION	"X"R
	-025, -037 (Per Row)	-03.5 = (3.5 mm) .138"	<p>-L = 10 μm (0.25 μm) Gold on contact area, Matte Tin on tail</p> <p>-S = 30 μm (0.76 μm) Gold on contact area, Matte Tin on tail</p>	<p>-04 = Four Rows</p> <p>-06 = Six Rows</p>		<p>-L = Squeeze Latch</p> <p>-T = Locking Tool</p>	<p>-TR = Tape & Reel</p> <p>-FR = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)</p>

APF6-L/ APF6-T Cable Mates:
ARP6

APF6-025-03.5-X-04-0-L SHOWN

NO. OF POSITIONS PER ROW	A	C
-025	(22.39) .881	(17.59) .693
-037	(30.01) 1.181	(25.21) .993

NO. OF ROWS	B	D
-04	(13.50) .531	(9.90) .390
-06	(18.10) .713	(14.50) .571

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

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