

# ACCELERATE®

## SLIM, DIRECT ATTACH CABLE ASSEMBLIES

(0.635 mm) .025" PITCH



### FEATURES & BENEFITS

- Slimmest cable assembly in the industry - 7.6 mm width
- High-density 2-row design
- 8, 16 and 24 differential pair configurations
- 34 AWG, 100 Ω Eye Speed® ultra low skew twinax cable
- Multiple wiring options including reverse polarity
- Mating board level socket (ARF6 Series) features standard rugged weld tabs for increased stability on the PCB
- Rugged metal latching and shielding
- Supports 64 Gbps PAM4 (32 Gbps NRZ) applications
- PCIe® 6.0 capable
- Utilizes Samtec's Flyover® Technology to simplify board layout and extend signal reach



Right-angle available.  
Visit [samtec.com/ARF6-RA](http://samtec.com/ARF6-RA)  
for specifications.



Contacts directly  
soldered to the twinax for  
improved signal integrity

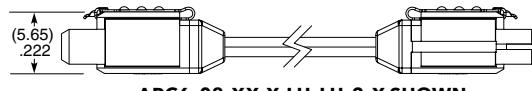
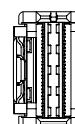
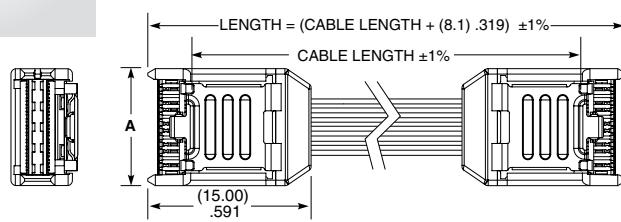
### KEY SPECIFICATIONS (ARC6/ARF6)

PITCH	CABLE	SIGNAL ROUTING	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE
(0.635 mm) .025"	34 AWG Eye Speed® ultra low skew twinax	100 Ω Differential	Black LCP	Copper Alloy	Au over 50 μ" (1.27 μm) Ni	-40 °C to +125 °C

(0.635 mm) .025" • SLIM CABLE & SOCKET

ARC6	-	NO OF PAIRS	-	CABLE LENGTH	-	END 1	-	END 2	-	WIRING OPTION	-	CABLE TYPE
	-	<b>-08</b>	-	<b>"XX.X"</b> = Length in Inches 03.0" (76.2 mm) minimum	-	<b>-LU</b> = Latch Up	-	<b>-LU</b> = Latch Up	-	<b>-2</b> = Pin 1 to Pin 2 (End 2 -LD option only)	-	<b>-1</b> = 34 AWG 100 Ω Eye Speed® Ultra low skew twinax
	-	<b>-16</b>	-		-		-	<b>-LD</b> = Latch Down	-	<b>-3</b> = Pin 1 to Pin N-1 (End 2 -LU option only)	-	
	-	<b>-24</b>	-		-		-		-	<b>-2R</b> = Pin 1 to Pin 2 Reversed Polarity (End 2 -LD option only) 06.0" (152.4 mm) min. cable length	-	

**ARC6**  
Board Mates:  
ARF6



**ARC6-08-XX.X-LU-LU-3-X SHOWN**

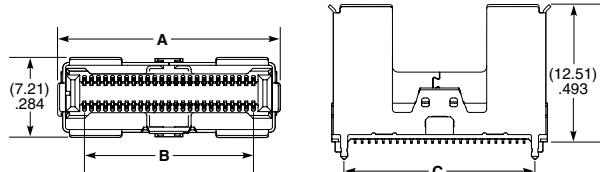
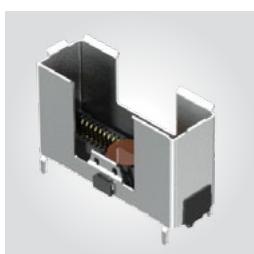
NO. OF PAIRS	A	N	N-1
-08	(10.90).429	26	25
-16	(18.52).729	50	49
-24	(26.14)1.029	74	73

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

View complete specifications at: [samtec.com?ARC6](http://samtec.com?ARC6)

ARF6	-	NO. OF PAIRS	-	PLATING	-	ROW	-	A	-	K	-	"X"R
	-	<b>-08</b>	-	<b>-S</b> = 30 μ" (0.76 μm) Gold on contact area, Matte Tin on tail	-	<b>-D</b> = Double Row	-	<b>-A</b> = Alignment Pin	-	<b>-K</b> = Polyimide film Pick & Place Pad	-	<b>-TR</b> = Tape & Reel
	-	<b>-16</b>	-	<b>-STL</b> = 30 μ" (0.76 μm) Gold on contact area, Matte Tin/Lead on tail	-		-		-		<b>-FR</b> = Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks)	
	-	<b>-24</b>	-		-		-		-			

**ARF6**  
Cable Mates:  
ARC6



**ARF6-16-S-D-A SHOWN**

**Notes:**  
Tape & Reel packaging  
and K-Dot are standard.

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

View complete specifications at: [samtec.com?ARF6](http://samtec.com?ARF6)

NO. OF PAIRS	A	B	C
-08	(12.46).491	(7.62).300	(9.59).378
-16	(20.08).791	(15.24).600	(17.21).678
-24	(27.70)1.091	(22.86).900	(24.83).978