



Introducing Amphenol 6G SAS SFF8087 Internal Cable Solutions

- AMPH-8787-XXX Mini SAS 36 to Mini SAS 36 Cable Series
- AMPH-874S-XXX Mini SAS 36 to 4 X SATA with Latches



Features:

- High Performance Cables Differential pair signaling with less than 10ps/m in pair skew and maximum of 6dB/m of attenuation at 4.5 Ghz. Foil in cable construction provides improved EMI.
- Signal Integrity Provides end-to-end signal integrity. Our process controlled termination assures performance at both SATA (1.5Gbps), SATAII (3.0Gbps) as well as SAS (3.0Gbps) data rates in the same cable.
- Smaller Cable Package Thinner 30Awg and more flexible cables allow for many efficient routing with improved airflow and thermal mechanics. Configuration of storage devices is simplied.
- Cost Effectiveness and Scalability World class manufacturing to support the desktop market cost drivers and reliability of the server market.
- Varieity Solutions Straight, R/A, side exit configuration, fan-out assemblies, 26Awg/30Awg wire options, 26,36,50,68 postions, and host base / target base fan-out assemblies...etc

Performance Test Data is shown as below

TEST RESULT AND RECORD

Humidity: 58.5 %

Sample No.	Signal -	Impedance(Risetime=70ps, 20%~80%)												8		
		Differential impedance								scd21	scd22	sdd21	sdd22	NEXT	scd21-	
		Termination area				Cable Absolute area		Cable	Common	(6G)	(6G)	(4.5G)	(6G)	(6G)	sdd21	
		Side A Side B						matching	mode	(00)	(00)	(4.50)	(00)	(00)	(6G)	
			MIN Ohm	MAX Ohm	MIN Ohm	MAX Ohm	MIN Ohm	Ohm	Ohm	dB	dB	dB	dB	dB	dB	RESUL
	Lower Limit	85	85	85	85	90	90	0	25	Gee the lest data						
	#1	A5A6	102.7	95.8	103.8	95.9	101.1	100.6	1.2	30. 2	ОК	ОК	ОК	ОК	ок	ОК
A2A3		104.3	94.8	104.0	95.0	101.1	100.3	0.5	30.5							
B2B3		105.3	98.4	102.7	98.8	101.4	100.7	0.9	30. 4							
B5B6		102.4	96.9	102.4	97.4	101.4	100.7	0.5	29.8							
B13B14		102. 2	98.9	104.8	98.4	101.2	100.4	0.7	31.8							
B16B17		102. 2	98.7	105.5	98.3	101.6	100.5	1.2	30.5							
A16A17		106. 2	94.8	104.2	95.5	101.4	100.4	1.5	30.5							
A13A14		103.6	95.0	104. 2	96.2	101.5	100.4	2.6	30.8							
#2	A5A6	102.5	94.5	100.9	95.0	101.3	100.1	0.8	30.0	80. 4 29. 8 29. 4 29. 8		OK OK	ок	ок	ок	PASS
	A2A3	103. 2	94.0	101.6	94.5	101.5	100.9	1.5	30.4							
	B2B3	102.9	98.5	102.1	97.7	101.5	101.1	0.9	29.8							
	B5B6	102. 2	98.6	102.2	94.7	101.3	100.6	0.4	29.4		ок					
	B13B14	102.1	97.9	102.3	97.8	101.7	100.5	1.5	29.8		OK					
	B16B17	101.8	98.0	101.9	97.0	101.4	100.6	0.5	29.1							
	A16A17	101.1	93.7	103.9	94.8	101.7	100.0	1.5	30.1							
	A13A14	100.7	94.8	101. 2	95.8	101.3	100.2	0.5	30.5	1						



SFF-8087 to SFF-8087 Cable with XXX as the standard or customized length in cm

TEST RESULT AND RECORD

perature:23.2°C Humidity: 58.5 %

Sample No.	Signal -	Impedance(Risetime=70ps, 20%~80%) Differential impedance							-						scd21-		
		Termination area						Cable		scd21	scd22	sdd21	sdd22	NEXT	sdd21		
		Mini SAS SATA			Cable Absolute area		pair	Common	(6G)	(6G)	(4.5G)	(6G)	(6G)	(6G)			
		MAX MIN		MAX MIN		MAX MIN		matching	lliode	100	55 50		1000 100	19 81	(66)	RESUL	
		Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	dB	dB	dB	dB	dB	dB	TRESCE	
	High Limit	115	115	115	115	110	110	5	40								
	Lower Limit	85	85	85	85	90	90	0	25	1		See the	ĺ				
#1	A5A6	101, 4	94. 5	101, 4	91.3	100, 6	99, 3	1.9	28, 9	ОК	ОК	ОК	ОК	ок	ОК	PASS	
	A2A3	101. 4	93. 4	101. 2	92.6	100.3	99.3	0.6	28.7								
	B2B3	103. 4	97. 2	100.6	92.9	100.6	99.8	1.7	29. 1								
	B5B6	101, 3	96.4	101.9	91.8	100, 6	99, 8	0, 9	28, 8								
	B13B14	101.8	97.0	101.9	92.1	100.3	99.5	0.3	28.8								
	B16B17	102. 1	97.6	101.3	93.0	100.3	99.4	1.2	28. 9								
	A16A17	101.7	93. 2	102.0	92.3	100.5	99.9	0.7	28.8								
	A13A14	100.8	93.3	101.4	91.7	100.6	100.0	0.9	28. 9								
#2	A5A6	101.2	92. 2	103.1	91.6	100.4	99.9	0.6	28.8	9 8 9 6 9 8 6	ОК	ОК	ОК	ОК	ок	PASS	
	A2A3	101.6	92.1	100.7	92.6	100.3	99.7	0.7	28.9								
	B2B3	101.9	95.6	100.8	92.8	100.3	99.8	1.0	28.8								
	B5B6	101.6	95. 2	100.7	91.5	100.4	99.7	1.4	28.9								
	B13B14	102.4	96.5	103. 2	91.6	100.4	99.6	0.7	28.6								
	B16B17	102.3	96.5	101.7	92.7	100, 0	99.5	0.4	28.9								
	A16A17	100.9	92.0	100.8	92.2	100.2	99.5	0.5	28.8								
	A13A14	101.1	91.8	101.5	91.6	100.4	99.9	1.3	28.6								
	MAX	103.4	97.6	103.2	93.0	100.3	99.8	1.9	29.1								
	MIN	100.8	91.8	100.6	91.3	100.0	99.3	0.3	28.6								
	AVERAGE	101.7	94.7	101.5	92.1	100.4	99.7	0.9	28.8								



AMPH-874S-XXX:

SFF-8087 to 4 SATA2 Cable with XXX as the standard or customized length in cm