

REPORT No.

FAI-4582

TEST DESCRIPTION

ELECTRICAL TEST

1. TEST PURPOSE

Evaluate the electrical performance of sample assembly.

2. TEST DESCRIPTION

P/N:(R)RSS32-0172 SAS 32P to 4X SAS 22P cable assembly , 3pcs.

3. TEST REQUIREMENT AND PROCEDURE

See the data record table

4. TEST EQUIPMENT

4.1 TEKTRONIX TDS8000 + TEKTRONIX 80E04 for Impedance and Skew test

4.2 Agilent N5230A for Insertion Loss and Near End Crosstalk test.

5. TEST RESULT AND RECORD

Temperature:22.7℃

Humidity: 54.2 %

Sample No.	Signal	Impedance(Risetime=70ps, 20%~80%)								Intra-pair skew (Risetime =70ps, 20%~80%)	NEXT	Insertion Loss	RESULT
		Differential impedance						Cable pair matching	Common mode				
		Termination area				Cable Absolute area							
		SAS 32P		SAS 22P									
	Wire	MAX	MIN	MAX	MIN	MAX	MIN	Ohm	Ohm	ps	dB	dB	
	Unit	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	ps	dB	
	High Limit	115	115	115	115	110	110	5	40	10	-26	6	
	Lower Limit	85	85	85	85	90	90	0	25	0	-100	0	
#1	pair 1	99.0	86.8	105.6	93.6	99.1	98.0	1.0	29.9	1.2	-38.83	2.95	PASS
	pair 2	98.8	87.1	107.8	93.9	99.3	98.0	0.7	30.1	3.2		3.75	
	pair 3	99.3	86.1	103.9	93.7	99.1	98.0	0.7	29.6	0.4	-42.70	2.91	
	pair 4	100.6	87.1	105.3	95.1	99.9	98.7	1.0	30.3	3.4		2.86	
	pair 5	100.6	87.2	103.0	94.0	99.8	98.6	0.7	29.3	4.5	-36.13	2.91	
	pair 6	99.7	85.3	103.3	94.3	99.1	98.1	1.3	29.8	1.8		3.09	
	pair 7	101.5	86.8	103.2	95.5	99.5	98.0	1.0	29.9	4.7	-36.57	2.92	
	pair 8	101.4	86.9	106.5	95.4	100.1	98.9	0.8	30.1	1.7		2.72	
#2	pair 1	101.4	86.9	110.9	96.0	99.5	98.7	0.9	30.3	1.4	-44.12	3.10	PASS
	pair 2	100.6	86.4	105.7	94.7	99.4	98.5	0.6	30.2	3.2		3.40	
	pair 3	99.7	86.6	103.8	95.6	99.4	98.0	0.8	30.0	1.7	-43.40	2.67	
	pair 4	99.5	85.3	106.5	95.8	99.2	97.8	0.9	30.0	6.4		3.11	
	pair 5	101.7	88.8	99.2	95.3	99.4	98.7	1.1	29.9	0.1	-40.72	2.33	
	pair 6	99.6	86.1	105.9	93.5	99.1	98.1	1.4	30.2	3.9		2.71	
	pair 7	99.5	85.9	106.9	94.9	99.1	98.0	1.2	30.1	3.0	-42.03	2.89	
	pair 8	101.2	86.9	105.9	93.3	99.1	98.1	1.1	29.9	3.1		2.71	
#3	pair 1	99.4	86.2	105.1	95.0	99.0	97.9	0.9	29.6	1.4	-40.32	3.06	PASS
	pair 2	99.0	85.7	101.6	94.8	99.0	98.2	1.0	29.7	3.1		3.10	
	pair 3	100.4	85.7	105.8	96.6	99.9	98.4	1.8	29.9	1.6	-43.19	2.89	
	pair 4	100.3	87.2	101.3	95.5	100.2	98.6	1.0	29.9	1.9		2.72	
	pair 5	99.7	86.1	101.4	93.2	100.8	99.1	1.3	30.3	4.1	-42.64	3.17	
	pair 6	99.2	85.3	103.5	93.5	100.9	99.0	0.7	30.5	1.2		3.09	
	pair 7	99.6	85.4	100.1	93.4	99.3	98.2	1.1	30.2	2.3	-41.59	2.52	
	pair 8	99.5	86.0	100.3	94.0	100.2	98.8	0.6	29.7	3.1		2.53	
	MAX	101.7	88.8	110.9	96.6	100.9	99.1	1.8	30.5	6.4	-36.1	3.75	
	MIN	98.8	85.3	99.2	93.2	99.0	97.8	0.6	29.3	0.1	-44.1	2.33	
	AVERAGE	100.1	86.4	104.3	94.6	99.6	98.4	1.0	30.0	2.6	-41.0	2.92	

6. TEST RESULT

All samples pass the electrical test.

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PREPARED BY

DATE

APPROVED BY

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