

3S-PCX SAMPLE HF TEST REPORT:

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DCM 3S-PCX Revision A01.0.0

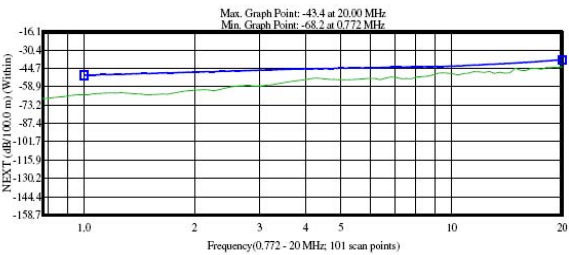
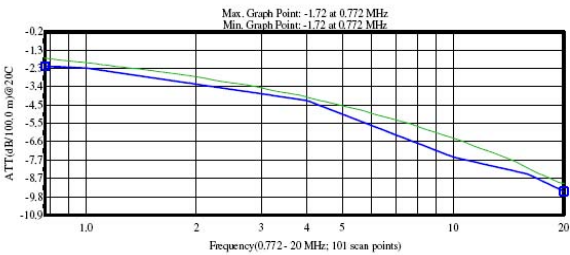
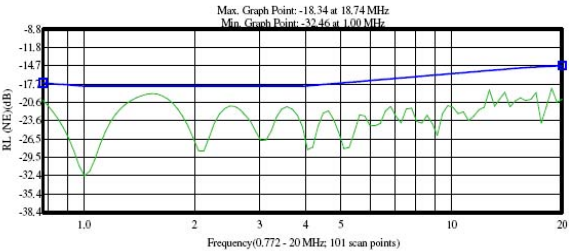
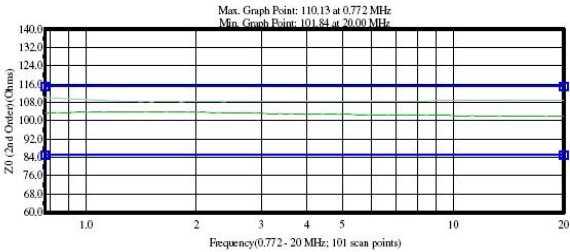
DCM Test Report

Cable Type	: 50x2x.5 x ALL	Specification File	: 20 MHz Broad Band Cable S3X	Data File Name	: DA000102.D3X
Cable I.D.	: DCM TEST	Temperature	: 21.00 °C	Test Date/Time	: 10/25/2011 04:44:25 PM
Factory Number	: 50 Pairs	Length	: 100.00 m	Operator	: nkk
Order Number	: 3S-PCX/52	Unit Construction	: 50 Pair Cable two 25-pair subunits	Selected System I	: 100 Ohms
Cable I.D.	: Cat 5E	Number of Pairs to Test	: 50	Analyzer Type	: ENA

Worst Case Summary

High Frequency

Test Type	Specification	Measured (Pair)	Margin	@ Frequency (MHz)	Test Result
Characteristic Impedance (Z0)(2)	85.00 (Min)	101.84 (Pair 27)	16.84	20.00	Passed
Characteristic Impedance (Z0)(2)	115.00 (Max)	110.13 (Pair 6)	4.87	0.772	Passed
Return Loss (RL)	18.00 (Min)	19.20 (Pair 31)	1.20	1.53	Passed
Attenuation (ATT)@20C	4.25 (Max)	4.04 (Pair 39)	0.21	4.06	Passed
Near End Crosstalk Loss (NEXT)(Within)	40.4 (Min)	44.5 (Pairs 1-7)	4.1	14.92	Passed
Far End Crosstalk Loss (FOEXT)(Within)	54.9 (Min)	48.6 (Pairs 34-45)	-6.3	4.06	Failed



N/A = Not Applicable.
-- = Disable/Bypassed Pair.

* = Measured value out of spec.
xxx = No entry.

*** = Measured value is invalid.

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3S-PCX SAMPLE LF TEST REPORT:

DCM TEST 50x2x.5 x ALL DA000102.D3X 10/25/2011 04:44:25 PM

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Worst Case Summary

Low Frequency

Statistical Parameter	Maximum		Minimum		Average Maximum		Standard Deviation		
Test Type	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	Result
Conductor Resistance(Ohms/1000.0 m)@20C	95.0	92.7	xxx	88.9	xxx	90.8	xxx	0.86	Passed
Resistance Unbalance(%)	2.0	1.2	xxx	0.0	xxx	0.4	xxx	0.35	Passed
Mutual Capacitance(nF/1000.0 m)@1000Hz	xxx	50.2	xxx	45.8	xxx	47.9	xxx	1.02	Passed
Cap. Unbalance to Ground(pF/1000.0 m)@1000Hz	2625.0	1399.3	xxx	0.1	xxx	219.1	xxx	279.32	Passed

Summary: Conductor Resistance@20C

	Spec Limit	Measured Values		Result
Unit	Ohms/1000.0 m	Ohms/L	Ohms/1000.0 m	
Maximum	95.0	99990.0	92.7	Passed
Minimum	xxx	8.9	88.9	N/A
Avg. Max.	xxx	1969.5	90.8	N/A
Std. Deviation	xxx	13862.19	0.86	N/A

Summary: Resistance Unbalance

	Spec Limit	Measured Values		Result
Unit	%	%	%	
Maximum	2.0	1.2	1.2	Passed
Minimum	xxx	0.0	0.0	N/A
Avg. Max.	1.5	0.4	0.4	Passed
Std. Deviation	xxx	0.35	0.35	N/A

Summary: Mutual Capacitance@1000 Hz

	Spec Limit	Measured Values		Result
Unit	nF/1000.0 m	nF/L	nF/1000.0 m	
Maximum	xxx	99990.0	50.2	N/A
Minimum	xxx	4.6	45.8	N/A
Avg. Max.	50.0	1965.3	47.9	Passed
Std. Deviation	xxx	13862.79	1.02	N/A

Summary: Cap. Unbalance to Ground@1000 Hz

	Spec Limit	Measured Values		Result
Unit	pF/1000.0 m	pF/L	pF/1000.0 m	
Maximum	2625.0	99990.0	1399.3	Passed
Minimum	xxx	0.0	0.1	N/A
Avg. Max.	xxx	1982.1	219.1	N/A
Std. Deviation	xxx	13860.44	279.32	N/A

Detail: Resistance/Capacitance Measurement -Normalized

Test Types	Conductor Resistance Ra @20C	Conductor Resistance Rb @20C	Resistance Unbalance	Mutual Capacitance @1000 Hz	Capacitance Unbalance to Ground @1000 Hz	Test Result
Unit	Ohms/1000.0 m	Ohms/1000.0 m	%	nF/1000.0 m	pF/1000.0 m	
Max Spec	95.0	95.0	2.0	xxx	2625.0	
Min Spec	xxx	xxx	xxx	xxx	xxx	
Pair 1	89.1	89.6	0.6	47.3	0.1	Passed
Pair 2	89.6	89.7	0.2	47.5	179.0	Passed
Pair 3	88.9	89.9	1.2	46.7	-129.8	Passed
Pair 4	90.1	90.6	0.5	48.1	163.6	Passed
Pair 5	89.7	90.6	1.0	45.8	187.8	Passed
Pair 6	90.4	90.5	0.1	46.4	296.0	Passed
Pair 7	90.4	89.4	1.2	47.2	-131.7	Passed
Pair 8	89.5	89.0	0.6	46.4	-2.9	Passed
Pair 9	89.8	89.1	0.7	46.3	-279.6	Passed
Pair 10	91.4	91.6	0.3	48.4	-128.7	Passed
Pair 11	90.4	90.5	0.1	47.7	-1389.0	Passed
Pair 12	91.2	90.3	1.0	47.6	-144.9	Passed

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