

February 10, 2014

**Test Report Number: 3030592CRT-125**  
Project Number: 3030592



**Legrand North America**  
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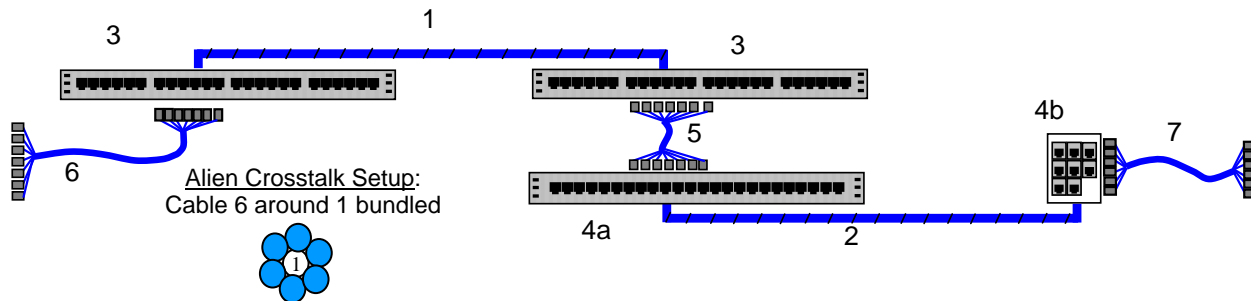
**Superior Essex**  
6120 Powers Ferry Road  
Suite 150  
Atlanta, GA 30339

**TEST:**

Electrical transmission performance testing of a cabling configuration to the requirements of ANSI/TIA-568-C.2 Balanced Twisted-Pair Telecommunication Cabling and Component Standards for Category 6A Channel.

**SAMPLE DESCRIPTION:**

The client supplied and tested a 4-Connector channel as illustrated below and referenced to as “nCompass CAT 6A+ U/UTP Channel, 4-Connector, 100 meters (328 ft)”.



<u>Component</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Length/Qty</u>	<u>Description</u>
1	Superior	6H-272-xA	70m (229 ft) /7	10Gain XP Cable, C6A U/UTP CMR
2	Superior	6H-272-xA	20m (65 ft) /7	10Gain XP Cable, C6A U/UTP CMR
3	Ortronics, Inc.	OR-PHD6AU24	2 (24p 1U)	Clarity C6A Patch Panel
4a	Ortronics, Inc.	OR-PJ6A	1 (24p 1U)	Clarity C6A Panel Jack
4b	Ortronics, Inc.	OR-TJ6A	7	Clarity C6A Trac Jacks
5	Ortronics, Inc.	OR-MC6A07-06	2m (7 ft) /7	Clarity C6A U/UTP Patch Cords
6	Ortronics, Inc.	OR-MC6A09-06	3m (9 ft) /7	Clarity C6A U/UTP Patch Cords
7	Ortronics, Inc.	OR-MC6A15-06	5m (15 ft) /7	Clarity C6A U/UTP Patch Cords

Note: U/UTP is a newer designation for LAN UTP cable construction.

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**STANDARD AND SECTIONS USED:**

ANSI/TIA-568-C.2-2009: Balanced Twisted-Pair Telecommunications Cabling and Components Standard, dated August 2009, (Section 6.2: Channel transmission performance)

**AUTHORIZATION:**

The project was authorized by Mr. Rob Aekins RCDD, representing Legrand Data Communications Division.

**EQUIPMENT LIST:**

The following equipment was employed in conducting the tests.

<u>Equipment used</u>	<u>Model number</u>	<u>Serial number</u>	<u>Calibration date</u>	<u>Calibration due date</u>
Agilent Technologies Network Analyzer	E5071B	MY42403324	06/24/2013	06/24/2014
Hewlett Packard Multimeter	34401A	US36035667	06/24/2013	06/24/2014

**DATE OF TEST:**

January 14, 2014

**TEST REPORT REVISION HISTORY:**

First Issue: February 10, 2014 Original Document

**RESULTS:** See appendixes A through C for the test results.

**CONCLUSION:**

The channel cabling configuration, as previously described and supplied by the client, was tested in accordance with the standard referred to herein, and did comply with the indicated applicable transmission requirements.

The procedures and requirements from the standard were followed, and the testing was performed at the client's facility as part of their qualifications under Intertek's SAT program.

Reviewed and Approved By:

Antoine Pelletier  
Engineer  
Global Cabling Products Testing

John Cash  
Technician  
Global Cabling Products Testing



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## **Appendix A**

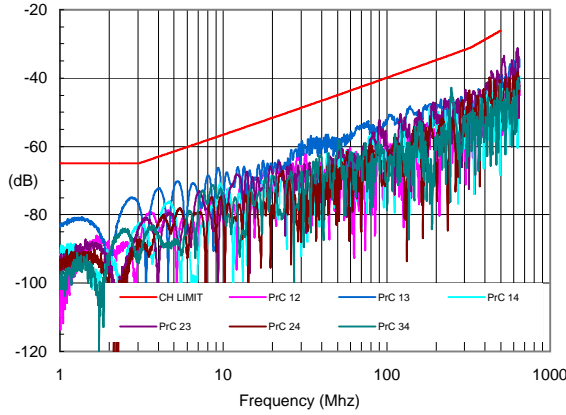
Internal test results

Internal (core) transmission characteristics

This appendix contains 7 pages.

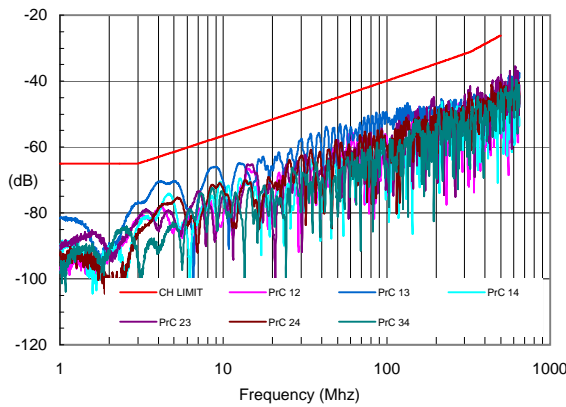


NEXT as measured from the TELECOMMUNICATIONS ROOM (TR)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	5.2	9.0	70.2	61.2
Discrete Points	1.00	18.3	83.3	65.0
	4.00	9.3	72.3	63.0
	8.00	10.7	68.8	58.2
	10.00	17.6	74.2	56.6
	16.00	15.5	68.7	53.2
	20.00	15.5	67.1	51.6
	25.00	13.8	63.8	50.0
	31.25	11.6	60.0	48.4
	62.50	13.1	56.4	43.4
	100.00	12.7	52.6	39.9
	200.00	14.8	49.6	34.8
	250.00	11.6	44.7	33.1
	300.00	13.8	45.6	31.7
	400.00	15.9	44.6	28.7
500.00	15.0	41.1	26.1	
650.00			36.9	n/a

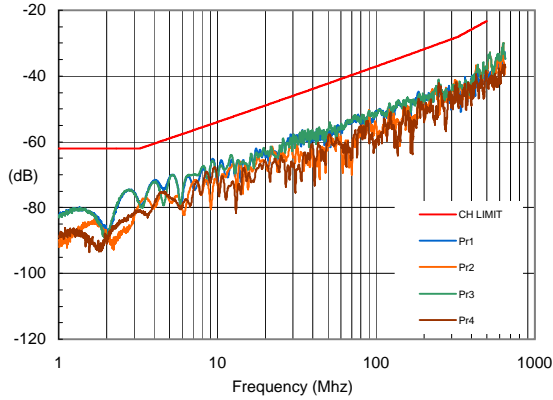
NEXT as measured from the WORK AREA (WA)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	4.0	7.5	70.4	63.0
Discrete Points	1.00	16.8	81.8	65.0
	4.00	7.5	70.6	63.0
	8.00	9.7	67.9	58.2
	10.00	14.2	70.8	56.6
	16.00	14.5	67.7	53.2
	20.00	15.1	66.7	51.6
	25.00	12.0	62.0	50.0
	31.25	14.0	62.4	48.4
	62.50	13.3	56.6	43.4
	100.00	9.8	49.7	39.9
	200.00	14.5	49.3	34.8
	250.00	14.1	47.2	33.1
	300.00	12.4	44.1	31.7
	400.00	18.5	47.2	28.7
500.00	15.2	41.3	26.1	
650.00			38.9	n/a

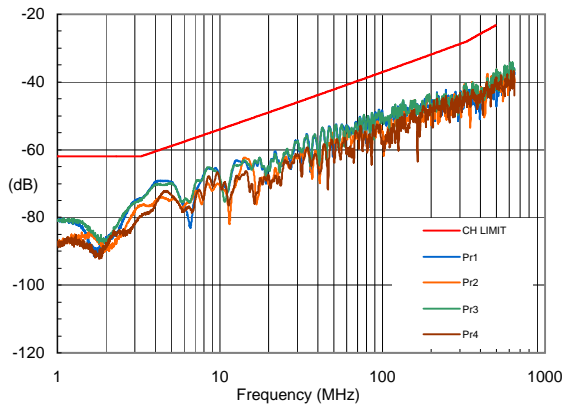


PSNEXT as measured from the TELECOMMUNICATIONS ROOM (TR)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	9.3	10.6	65.1	54.5
Discrete Points	1.00	20.7	82.7	62.0
	4.00	11.2	71.7	60.5
	8.00	12.2	67.8	55.6
	10.00	16.5	70.5	54.0
	16.00	15.4	66.0	50.6
	20.00	14.2	63.2	49.0
	25.00	14.1	61.5	47.3
	31.25	13.1	58.8	45.7
	62.50	15.2	55.7	40.6
	100.00	13.8	50.9	37.1
	200.00	14.9	46.8	31.9
	250.00	12.3	42.5	30.2
	300.00	14.8	43.6	28.8
	400.00	15.1	40.9	25.8
	500.00	15.0	38.2	23.2
	650.00		34.8	n/a

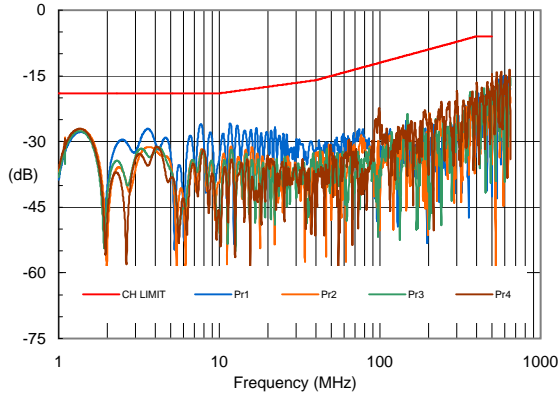
PSNEXT as measured from the WORK AREA (WA)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	4.1	8.9	69.2	60.3
Discrete Points	1.00	19.1	81.1	62.0
	4.00	9.1	69.6	60.5
	8.00	11.5	67.1	55.6
	10.00	14.2	68.2	54.0
	16.00	14.2	64.8	50.6
	20.00	16.7	65.7	49.0
	25.00	13.5	60.9	47.3
	31.25	13.9	59.6	45.7
	62.50	13.3	53.9	40.6
	100.00	11.8	48.9	37.1
	200.00	15.1	47.0	31.9
	250.00	15.1	45.3	30.2
	300.00	14.1	42.8	28.8
	400.00	17.6	43.4	25.8
	500.00	14.6	37.8	23.2
	650.00		36.6	n/a

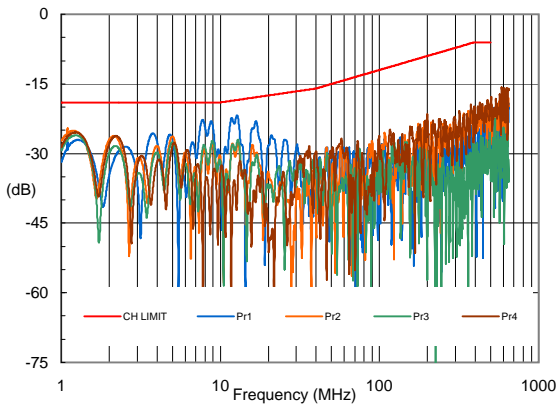


RL as measured from the TELECOMMUNICATIONS ROOM (TR)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	7.7	7.1	26.1	19.0
Discrete Points	1.00	17.1	36.1	19.0
	4.00	11.3	30.3	19.0
	8.00	10.7	29.7	19.0
	10.00	15.0	34.0	19.0
	16.00	10.8	28.8	18.0
	20.00	10.9	28.4	17.5
	25.00	11.5	28.6	17.0
	31.25	13.8	30.4	16.5
	62.50	16.3	30.3	14.0
	100.00	13.3	25.3	12.0
	200.00	24.1	33.1	9.0
	250.00	18.2	26.2	8.0
	300.00	12.7	19.9	7.2
	400.00	10.8	16.8	6.0
	500.00	9.7	15.7	6.0
	650.00		17.2	n/a

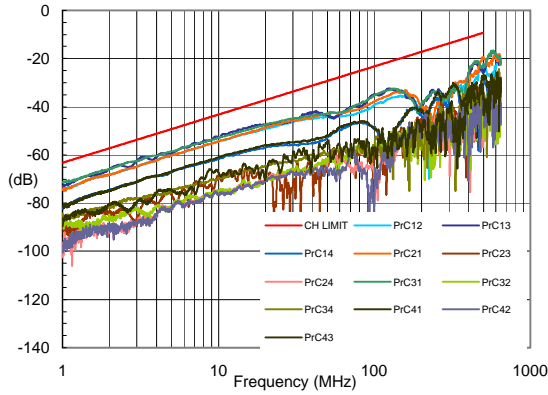
RL as measured from the WORK AREA (WA)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	12.7	3.3	21.8	18.5
Discrete Points	1.00	8.4	27.4	19.0
	4.00	8.3	27.3	19.0
	8.00	5.1	24.1	19.0
	10.00	11.6	30.6	19.0
	16.00	6.6	24.5	18.0
	20.00	10.9	28.4	17.5
	25.00	10.5	27.5	17.0
	31.25	13.5	30.0	16.5
	62.50	14.9	29.0	14.0
	100.00	15.8	27.8	12.0
	200.00	12.5	21.5	9.0
	250.00	15.9	23.9	8.0
	300.00	16.9	24.1	7.2
	400.00	15.9	21.9	6.0
	500.00	15.2	21.2	6.0
	650.00		16.0	n/a



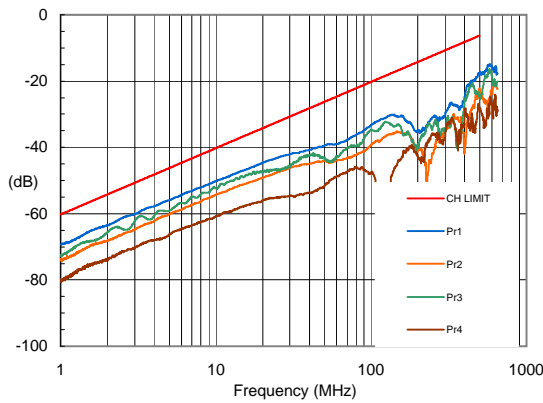
ACRF



Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	3.2	7.8	61.0	53.2
Discrete Points	1.00	7.9	71.2	63.3
	4.00	9.1	60.3	51.2
	8.00	9.1	54.3	45.2
	10.00	9.3	52.6	43.3
	16.00	9.3	48.5	39.2
	20.00	10.3	47.5	37.2
	25.00	10.6	45.9	35.3
	31.25	11.3	44.6	33.4
	62.50	14.9	42.2	27.3
	100.00	11.4	34.7	23.3
	200.00	21.7	39.0	17.2
	250.00	19.1	34.4	15.3
	300.00	19.6	33.3	13.7
	400.00	14.9	26.1	11.2
	500.00	10.6	19.9	9.3
	650.00		20.4	n/a

PSACRF

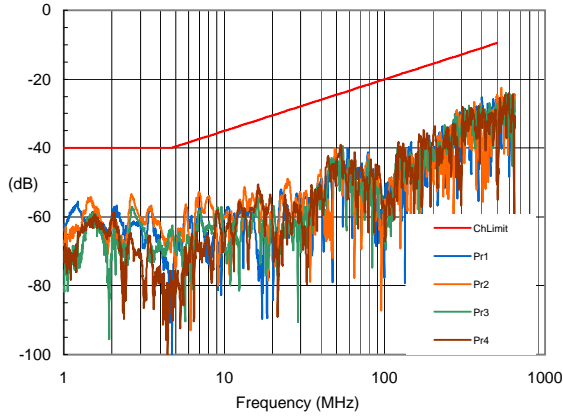


Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	1.5	8.8	65.4	56.6
Discrete Points	1.00	9.0	69.3	60.3
	4.00	9.6	57.8	48.2
	8.00	9.9	52.1	42.2
	10.00	9.9	50.2	40.3
	16.00	10.4	46.5	36.2
	20.00	10.5	44.7	34.2
	25.00	10.8	43.1	32.3
	31.25	11.4	41.8	30.4
	62.50	14.4	38.8	24.3
	100.00	13.0	33.3	20.3
	200.00	21.0	35.3	14.2
	250.00	18.5	30.8	12.3
	300.00	19.0	29.8	10.7
	400.00	16.5	24.7	8.2
	500.00	11.5	17.8	6.3
	650.00		17.8	n/a

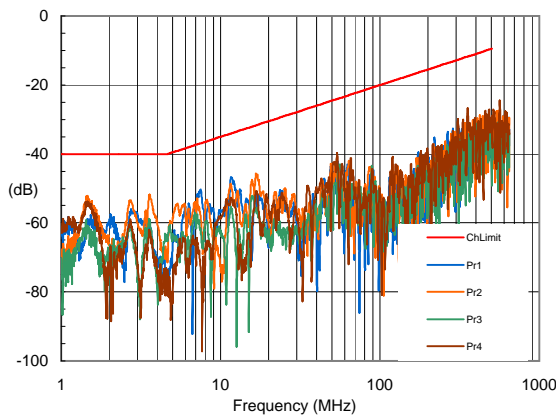


TCL as measured from the TELECOMMUNICATIONS ROOM (TR)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	2.6	13.3	53.3	40.0
Discrete Points	1.00	23.6	63.6	40.0
	4.00	23.2	63.2	40.0
	8.00	17.8	54.2	36.5
	10.00	24.8	59.8	35.0
	16.00	19.2	51.1	31.9
	20.00	28.6	59.1	30.5
	25.00	20.3	49.4	29.0
	31.25	25.4	53.0	27.6
	62.50	25.8	48.8	23.1
	100.00	31.5	51.5	20.0
	200.00	19.7	35.2	15.5
	250.00	21.1	35.1	14.0
	300.00	17.9	30.7	12.8
	400.00	16.2	27.2	11.0
	500.00	15.1	24.6	9.5
650.00			24.6	n/a

TCL as measured from the WORK AREA (WA)

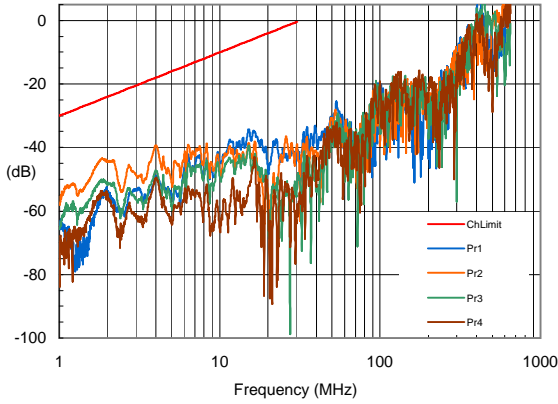


Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	3.6	11.8	51.8	40.0
Discrete Points	1.00	21.2	61.2	40.0
	4.00	20.8	60.8	40.0
	8.00	17.5	53.9	36.5
	10.00	21.7	56.7	35.0
	16.00	18.4	50.4	31.9
	20.00	26.6	57.1	30.5
	25.00	22.3	51.4	29.0
	31.25	31.5	59.1	27.6
	62.50	20.5	43.6	23.1
	100.00	32.4	52.4	20.0
	200.00	25.5	41.0	15.5
	250.00	26.2	40.2	14.0
	300.00	22.7	35.6	12.8
	400.00	20.7	31.7	11.0
	500.00	20.5	30.0	9.5
650.00			33.2	n/a



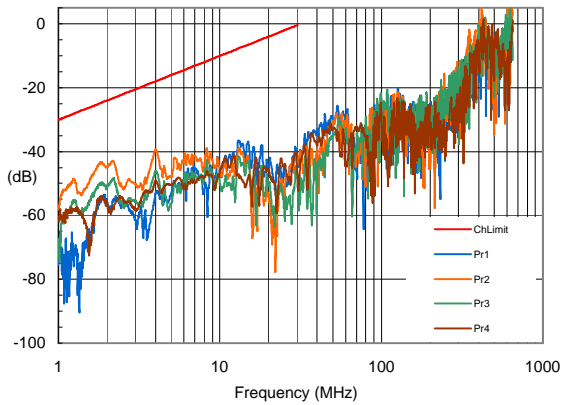


ELTCTL as measured from the TELECOMMUNICATIONS ROOM (TR)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	1.8	18.7	43.4	24.7
Discrete Points	1.00	27.9	57.9	30.0
	4.00	21.5	39.5	18.0
	8.00	29.9	41.9	11.9
	10.00	34.5	44.5	10.0
	16.00	29.1	35.0	5.9
	20.00	44.4	48.4	4.0
	25.00	40.1	42.1	2.0
	31.25		46.2	n/a
	62.50		33.0	n/a
	100.00		22.8	n/a
	200.00		21.0	n/a
	250.00		16.6	n/a
	300.00		10.9	n/a
	400.00		-2.3	n/a
	500.00		0.3	n/a
650.00		-10.9	n/a	

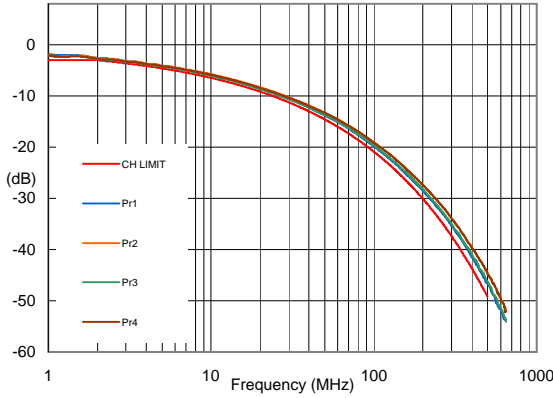
ELTCTL as measured from the WORK AREA (WA)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	1.8	18.5	43.4	24.9
Discrete Points	1.00	28.1	58.1	30.0
	4.00	21.6	39.6	18.0
	8.00	29.7	41.7	11.9
	10.00	35.8	45.8	10.0
	16.00	32.6	38.5	5.9
	20.00	40.8	44.8	4.0
	25.00	42.1	44.1	2.0
	31.25		39.6	n/a
	62.50		37.4	n/a
	100.00		28.4	n/a
	200.00		30.5	n/a
	250.00		22.7	n/a
	300.00		17.2	n/a
	400.00		0.1	n/a
	500.00		4.3	n/a
650.00		-2.7	n/a	



INSERTION LOSS (ATTN)



Worst Case Margin				
	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	2.08	0.20	2.87	3.07
Discrete Points	1.00	0.87	2.1	3.0
	4.00	0.27	3.9	4.2
	8.00	0.36	5.4	5.8
	10.00	0.41	6.1	6.5
	16.00	0.43	7.7	8.2
	20.00	0.47	8.7	9.2
	25.00	0.54	9.7	10.2
	31.25	0.62	10.9	11.5
	62.50	0.96	15.4	16.4
	100.00	1.06	19.8	20.9
	200.00	1.56	28.5	30.1
	250.00	1.85	32.0	33.9
	300.00	2.08	35.3	37.4
	400.00	2.21	41.4	43.7
	500.00	2.67	46.6	49.3
	650.00		54.1	n/a

DC Resistance Unbalance (%)

ChnlLimit	Pr1	Pr2	Pr3	Pr4	MaxValue	MinMargin
3	0.086	0.076	0.134	0.049	0.134	2.866

GLOSSARY of TERMS

- Calculated Margin:** The minimum difference in dB between the measured value and the LIMIT value at the specified frequency point for all tested pairs (CalculateMargin@100MHz = MeasuredValue@100MHz - LIMITValue@100MHz (dB)).
- Discrete Points:** Specific reference points of interest in MHz within the swept frequencies.
- Frequency Point:** A specific frequency point in megahertz (MHz) for which the data indicated is applicable.
- LIMIT Value:** The calculated response LIMIT in dB at the indicated frequency point as calculated using applicable equations defined by the appropriate standard.
- Measured Value:** The worst case measured response in dB at the frequency indicated for all tested pairs.
- Swept Freq:** The band of measured values from 1 MHz to the upper frequency LIMIT as defined by the category of test.
- Swept Freq (Margin):** The minimum margin in dB detected across the Swept Frequency band.
- Worst Case:** A composite value calculated from the maximum response of each pair or pair combination at a given frequency. (WorstCase<sub>100MHz</sub> = Max(Pr1<sub>100MHz</sub>, Pr2<sub>100MHz</sub>, Pr3<sub>100MHz</sub>, Pr4<sub>100MHz</sub>) etc.
- ACR / PSACR:** If Provided are for reference only. Limit line(s) are provided for reference and are calculated as the difference between the applicable NEXT Loss and Insertion loss limits (ACR<sub>limit</sub> = NEXT<sub>limit</sub> - IL<sub>limit</sub>).



Ortronics

Test report number 3030592CRT-125  
February 10, 2014

## **Appendix B**

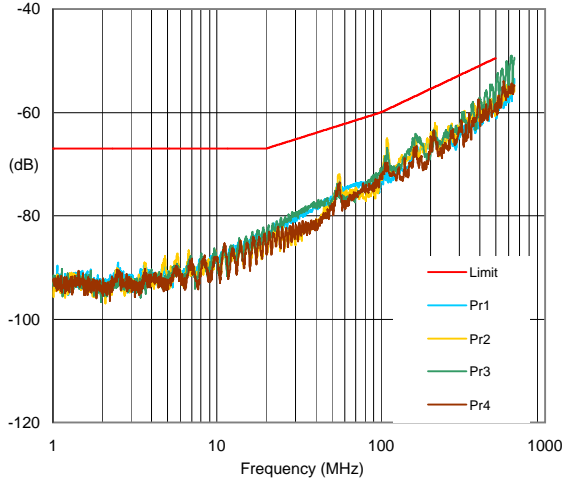
External test results

Internal (core) transmission characteristics

This appendix contains 2 pages.



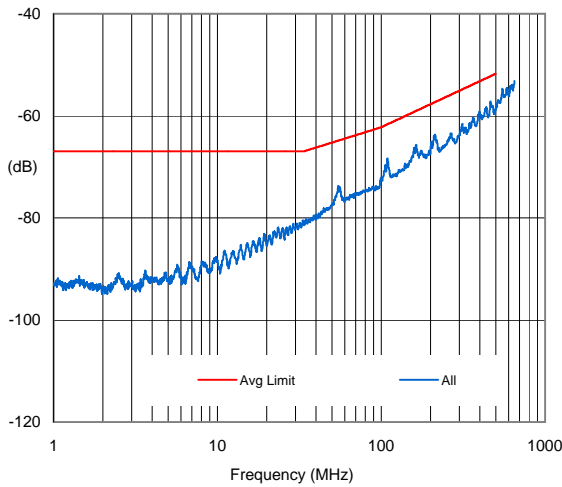
PowerSum Alien Near-End Crosstalk (PSANEXT)



Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	463.7	4.7	-54.7	-50.0
Discrete Points	1.00	25.2	-92.2	-67.0
	4.00	25.2	-92.2	-67.0
	8.00	21.0	-88.0	-67.0
	10.00	21.6	-88.6	-67.0
	16.00	18.2	-85.2	-67.0
	20.00	17.3	-84.3	-67.0
	25.00	15.6	-81.6	-66.0
	31.25	14.4	-79.5	-65.1
	62.50	12.6	-74.7	-62.0
	100.00	11.0	-71.0	-60.0
	200.00	10.3	-65.8	-55.5
	250.00	10.8	-64.9	-54.0
	300.00	10.1	-63.0	-52.8
	400.00	6.3	-57.3	-51.0
	500.00	6.3	-55.8	-49.5
	650.00		-49.5	n/a

Average PowerSum Alien Near-End Crosstalk (avgPSANEXT)

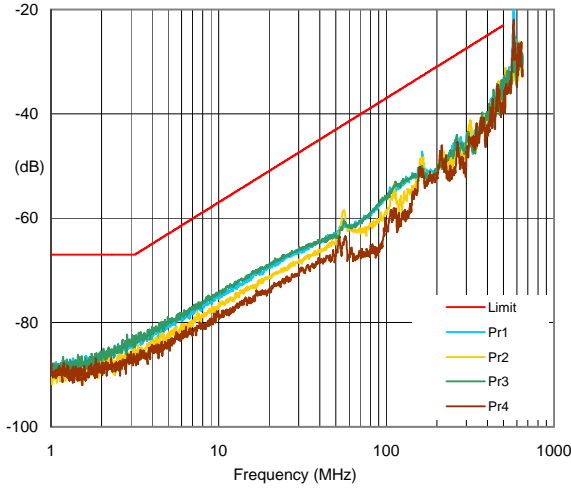


Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Measured Value (dB)	CH LIMIT Value (dB)
Swept Freq	463.7	4.9	-57.1	-52.3
Discrete Points	1.00	25.8	-92.8	-67.0
	4.00	25.6	-92.6	-67.0
	8.00	22.4	-89.4	-67.0
	10.00	21.7	-88.7	-67.0
	16.00	20.6	-87.6	-67.0
	20.00	18.6	-85.6	-67.0
	25.00	15.1	-82.1	-67.0
	31.25	15.1	-82.1	-67.0
	62.50	12.1	-76.4	-64.3
	100.00	9.9	-72.1	-62.3
	200.00	8.8	-66.6	-57.7
	250.00	9.5	-65.8	-56.3
	300.00	8.5	-63.6	-55.1
	400.00	6.6	-59.8	-53.2
	500.00	7.2	-58.9	-51.8
	650.00		-53.2	n/a



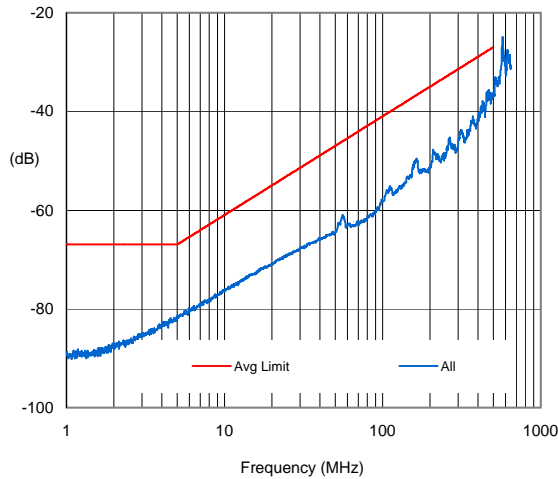
**Power Sum Attenuation to Alien Crosstalk Ratio Far-End (PSAACRF)**



**Worst Case Margin**

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
<b>Swept Freq</b>	<b>466.9</b>	<b>10.1</b>	<b>-33.8</b>	<b>-23.6</b>
<b>Discrete Points</b>	1.00	21.2	-88.2	-67.0
	4.00	17.3	-82.2	-65.0
	8.00	17.4	-76.3	-58.9
	10.00	17.5	-74.5	-57.0
	16.00	17.6	-70.5	-52.9
	20.00	18.1	-69.1	-51.0
	25.00	18.3	-67.3	-49.0
	31.25	18.8	-65.9	-47.1
	62.50	20.4	-61.5	-41.1
	100.00	18.8	-55.8	-37.0
	200.00	19.3	-50.3	-31.0
	250.00	18.3	-47.3	-29.0
	300.00	18.0	-45.5	-27.5
	400.00	15.9	-40.8	-25.0
	500.00	12.0	-35.0	-23.0
	650.00		-28.5	n/a

**Average Power Sum Attenuation to Alien Crosstalk Ratio Far-End (avgPSAACRF)**



**Worst Case Margin**

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
<b>Swept Freq</b>	<b>470.2</b>	<b>8.2</b>	<b>-35.7</b>	<b>-27.6</b>
<b>Discrete Points</b>	1.00	22.3	-89.3	-67.0
	4.00	16.2	-83.2	-67.0
	8.00	15.4	-78.3	-62.9
	10.00	15.3	-76.3	-61.0
	16.00	15.7	-72.6	-56.9
	20.00	16.1	-71.1	-55.0
	25.00	16.1	-69.2	-53.0
	31.25	16.5	-67.6	-51.1
	62.50	17.9	-63.0	-45.1
	100.00	17.4	-58.4	-41.0
	200.00	15.9	-50.9	-35.0
	250.00	16.3	-49.4	-33.0
	300.00	15.7	-47.1	-31.5
	400.00	12.8	-41.8	-29.0
	500.00	10.5	-37.6	-27.0
	650.00		-30.8	n/a



Ortronics

Test report number 3030592CRT-125  
February 10, 2014

### **Appendix C**

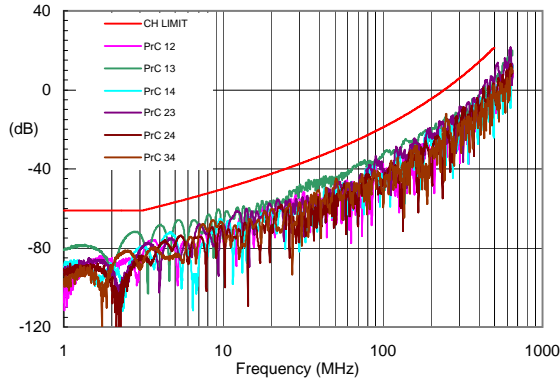
ACR Test results

ACR transmission performance provided for reference ONLY

This appendix contains 2 pages.



Pair-to-Pair ACR as measured from the TELECOMMUNICATIONS ROOM (TR)

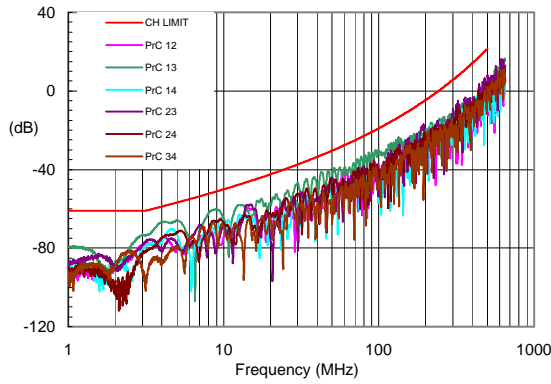


Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	5.2	9.4	-65.9	-56.5
Discrete Points	1.00	20.2	-81.2	-61.0
	4.00	9.6	-68.5	-58.9
	8.00	11.0	-63.4	-52.4
	10.00	18.0	-68.1	-50.1
	16.00	15.9	-61.0	-45.0
	20.00	15.9	-58.4	-42.5
	25.00	14.3	-54.1	-39.8
	31.25	12.2	-49.1	-36.9
	62.50	14.1	-41.1	-27.0
	100.00	14.0	-33.0	-19.0
	200.00	16.7	-21.4	-4.7
	250.00	14.8	-14.0	0.8
	300.00	16.3	-10.7	5.6
	400.00	17.7	-3.6	14.1
	500.00	16.3	5.2	21.4
	650.00		17.2	n/a

NOTE: Limit line/values provided for reference ONLY and are extrapolated from NEXT Loss and IL limit requirements.  $ACR_{limit} = NEXT_{limit} - IL_{limit}$

Pair-to-Pair ACR as measured from the WORK AREA (WA)

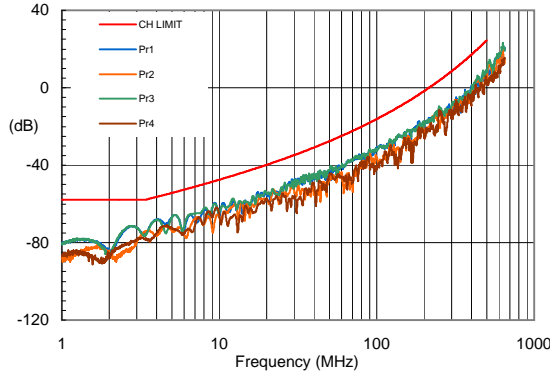


Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	4.0	7.7	-66.6	-58.8
Discrete Points	1.00	18.6	-79.6	-61.0
	4.00	7.8	-66.7	-58.9
	8.00	10.1	-62.4	-52.4
	10.00	14.6	-64.7	-50.1
	16.00	14.9	-60.0	-45.0
	20.00	15.6	-58.0	-42.5
	25.00	12.5	-52.3	-39.8
	31.25	14.6	-51.5	-36.9
	62.50	14.8	-41.8	-27.0
	100.00	11.1	-30.1	-19.0
	200.00	16.4	-21.1	-4.7
	250.00	16.3	-15.5	0.8
	300.00	14.8	-9.2	5.6
	400.00	20.6	-6.6	14.1
	500.00	16.7	4.8	21.4
	650.00		15.1	n/a



Power Sum (PS) ACR as measured from the TELECOMMUNICATIONS ROOM (TR)

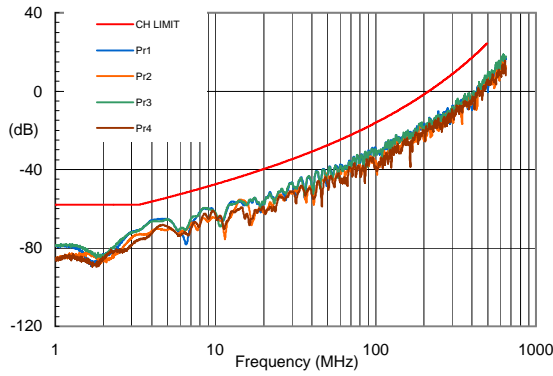


Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	9.3	11.2	-59.4	-48.2
Discrete Points	1.00	22.7	-80.7	-58.0
	4.00	11.6	-68.0	-56.4
	8.00	12.5	-62.3	-49.8
	10.00	17.0	-64.5	-47.5
	16.00	15.9	-58.3	-42.4
	20.00	14.7	-54.5	-39.8
	25.00	14.7	-51.8	-37.1
	31.25	13.7	-48.0	-34.2
	62.50	16.1	-40.3	-24.2
	100.00	14.9	-31.1	-16.2
	200.00	16.8	-18.6	-1.8
	250.00	14.5	-10.8	3.7
	300.00	17.3	-8.7	8.6
	400.00	16.5	0.6	17.1
	500.00	16.4	8.0	24.5
	650.00		19.3	n/a

NOTE: Limit line/values provided for reference ONLY and are extrapolated from PSNEXT Loss and IL limit requirements.  $psACR_{limit} = psNEXT_{limit} - IL_{limit}$

Power Sum (PS) ACR as measured from the WORK AREA (WA)



Worst Case Margin

	Frequency Point (MHz)	Calculated Margin (dB)	Calculated Value (dB)	CH LIMIT Value (dB)
Swept Freq	4.0	9.4	-65.7	-56.3
Discrete Points	1.00	20.9	-78.9	-58.0
	4.00	9.5	-65.9	-56.4
	8.00	12.0	-61.8	-49.8
	10.00	14.6	-62.2	-47.5
	16.00	14.6	-57.0	-42.4
	20.00	17.2	-57.0	-39.8
	25.00	14.1	-51.2	-37.1
	31.25	14.5	-48.7	-34.2
	62.50	14.3	-38.5	-24.2
	100.00	12.9	-29.0	-16.2
	200.00	16.7	-18.4	-1.8
	250.00	17.0	-13.2	3.7
	300.00	16.5	-7.9	8.6
	400.00	20.4	-3.3	17.1
	500.00	17.2	7.2	24.5
	650.00		17.5	n/a