



3933 US Route 11
Cortland, New York 13045

Telephone: +1 (800) 345-3851
Facsimile: +1 (607) 758-6637
www.intertek.com

Project Number: 3193544

Date Issued: 2/12/2010

Certificate of Conformance Number: 9803068CRT-005

Test Report Number: 3193544CRT-041f



Applicant:

Nexans Inc.
dba Berk-Tek
132 White Oak Road
New Holland, PA 17557

Applicant Contact: Mr. Joel Fasnacht

Manufacturer:

Nexans Inc.
dba Berk-Tek
132 White Oak Road
New Holland, PA 17557USA

Mfg. Contact: Mr. Joel Fasnacht

Dear Mr. Joel Fasnacht;

Intertek is pleased to provide this letter report covering the testing of one (1) 4 Pair, 24 AWG, UTP, CMP, Plenum, Horizontal (solid) Cable, Part Number: LANmark 350 p/n 10032060. The sample was selected from your manufacturer facility, Nexans Inc. DBA Berk-Tek, by the Intertek Inspector Mr. Ronald Williams on 2/4/2010, for Quarter 1 2010 Quarterly Follow-up Testing.

The testing was performed at Intertek located in Cortland, NY on 2/12/2010, to the TIA 568-C.2, ISO 11801 Category 5e, and the Berk-Tek LanMark 350 specifications and did comply with the applicable requirements of the specifications.

We have appreciated this opportunity to be of service to you. If there are any questions regarding this letter or any other services offered by Intertek, Please do not hesitate to contact us.

Refer to Appendix A for test summary results

Sincerely,

Kathy Heath
Program Coordinator
Global Cabling Products Testing
Phone: (607) 758-6641
Email: kathy.heath@intertek.com

John Cash
Technician
Global Cabling Products Testing
Phone: (607) 758-6677
Email: john.cash@intertek.com

Antoine Pelletier
Engineer
Global Cabling Products Testing
Phone: (607) 758-6718
Email: antoine.pelletier@intertek.com



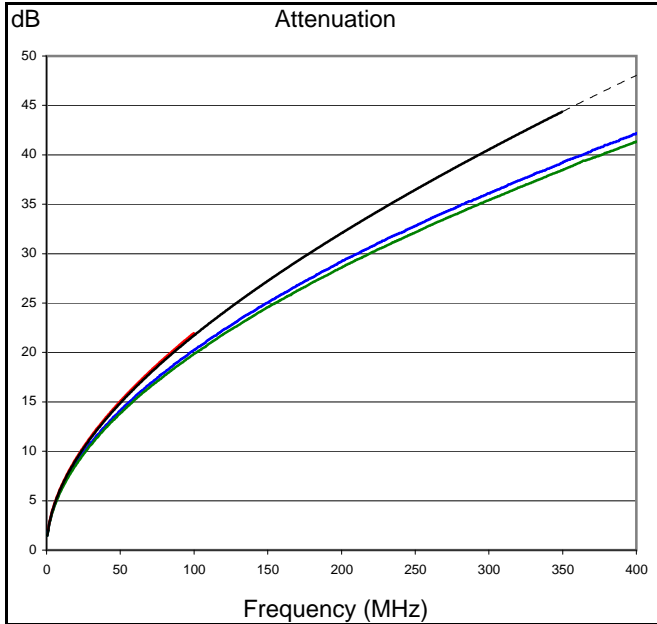
Appendix A

Test Results

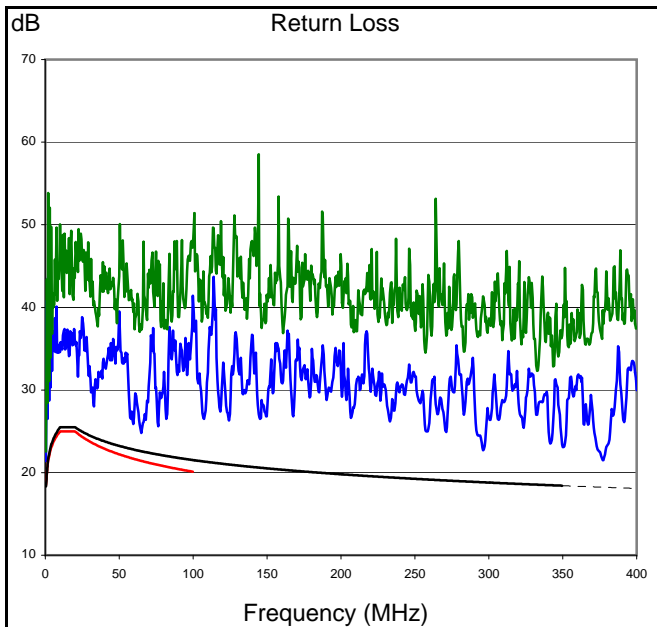
Summary

Client Nexans, INC, DBA Berk-Tek
Specifications Berk-Tek LANmark-350
 ANSI/TIA-568-C.2, Category 5e
 ISO/IEC 11801, Category 5e
Part number 10032060
Description **Berk-Tek LANmark-350 CMP**
 4X24 UTP-CMP-Solid

Test Started 2/12/2010 9:35
Technician John Cash
Report No. 3193544CRT-041f
Length (m) 100
Temperature 20 °C
Test Status **PASS**



Attenuation					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	2.0	2.0	2.0	2.5	N/A
4	3.9	3.8	4.0	4.3	4.1
8	5.5	5.4	5.7	5.9	5.8
10	6.2	6.1	6.4	6.6	6.5
16	7.9	7.7	8.1	8.4	8.3
20	8.8	8.6	9.1	9.4	9.3
25	9.9	9.7	10.3	10.5	10.4
31.25	11.1	10.9	11.6	11.8	11.8
62.5	15.9	15.6	16.8	17.0	17.0
100	20.2	19.9	21.7	22.0	22.0
250	32.8	32.2	36.5		
350	39.2	38.5	44.4		
400	42.2	41.4			
Limit Margin (dB) :			0.01	0.36	0.13
Frequency (MHz) :			1.00	4.50	3.50



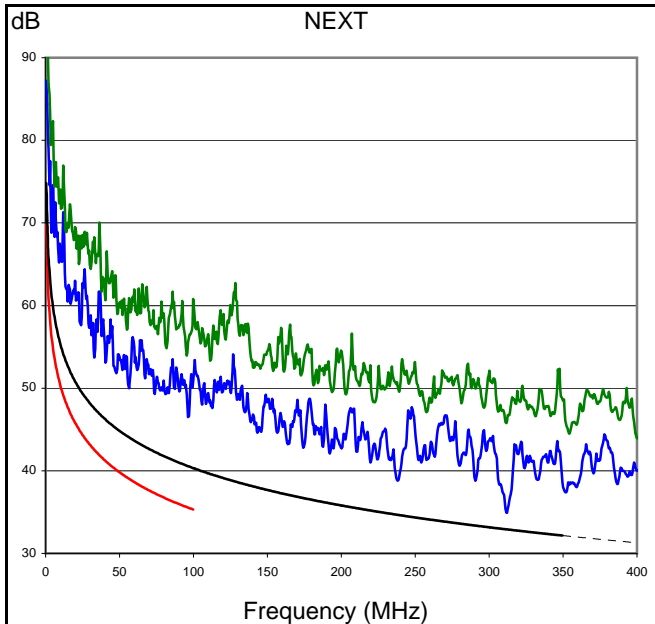
Return Loss					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	40.8	43.3	20.0	20.0	N/A
4	39.8	49.8	23.3	23.0	23.0
8	34.5	40.8	25.0	24.5	24.5
10	34.6	50.0	25.5	25.0	25.0
16	34.1	48.4	25.5	25.0	25.0
20	36.1	43.6	25.5	25.0	25.0
25	38.8	45.8	25.0	24.3	24.3
31.25	30.1	42.2	24.4	23.6	23.6
62.5	28.0	41.7	22.7	21.5	21.5
100	41.4	47.2	21.5	20.1	20.1
250	31.6	37.2	19.2		
350	23.1	37.6	18.4		
400	30.0	37.6			
Limit Margin (dB) :			2.21	3.38	3.38
Frequency (MHz) :			64.92	64.92	64.92

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

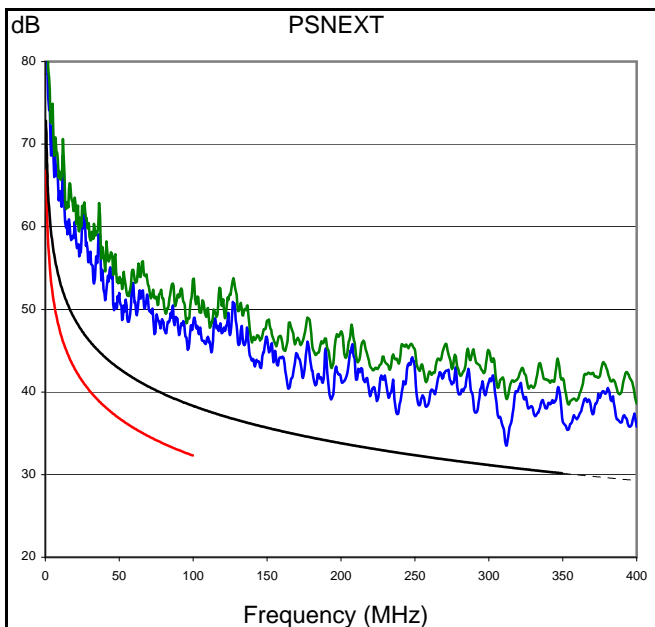
Summary

Client Nexans, INC, DBA Berk-Tek
Specifications Berk-Tek LANmark-350
 ANSI/TIA-568-C.2, Category 5e
 ISO/IEC 11801, Category 5e
Part number 10032060
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 4X24 UTP-CMP-Solid

Test Started 2/12/2010 9:35
Technician John Cash
Report No. 3193544CRT-041f
Length (m) 100
Temperature 20 °C
Test Status **PASS**



NEXT					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	84.4	92.2	70.3	65.3	N/A
4	68.8	81.2	61.3	56.3	56.3
8	68.9	75.3	56.8	51.8	51.8
10	66.5	74.1	55.3	50.3	50.3
16	62.2	71.2	52.3	47.2	47.2
20	63.0	69.5	50.8	45.8	45.8
25	62.7	68.6	49.4	44.3	44.3
31.25	56.4	66.1	47.8	42.8	42.8
62.5	52.3	60.4	43.4	38.4	38.4
100	50.8	60.8	40.3	35.3	35.3
250	44.2	52.2	34.3		
350	38.0	48.5	32.2		
400	40.0	43.9			
Limit Margin (dB) :			1.99	10.96	10.96
Frequency (MHz) :			311.61	96.38	96.38



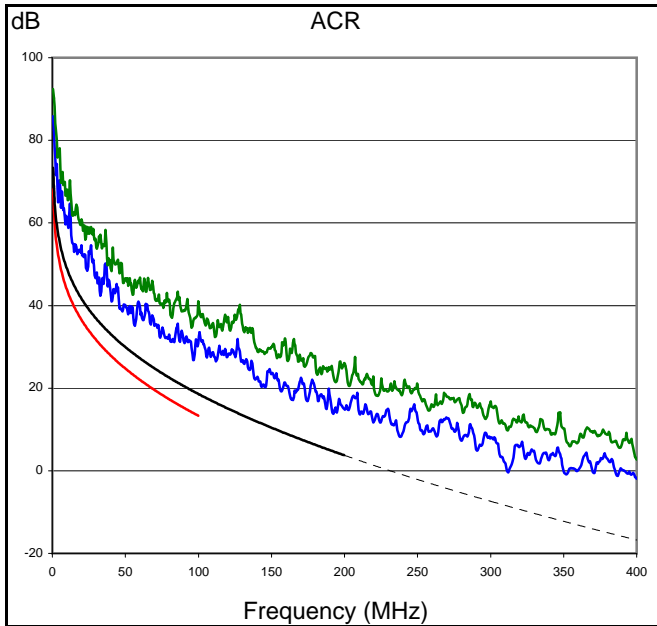
PSNEXT					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	83.0	85.2	68.3	62.3	N/A
4	68.6	72.6	59.3	53.3	53.3
8	66.2	69.0	54.8	48.8	48.8
10	64.3	66.5	53.3	47.3	47.3
16	60.9	64.6	50.3	44.2	44.2
20	60.6	63.5	48.8	42.8	42.8
25	60.5	62.5	47.4	41.3	41.3
31.25	55.4	59.4	45.8	39.8	39.8
62.5	49.8	54.2	41.4	35.4	35.4
100	48.0	53.6	38.3	32.3	32.3
250	42.1	44.9	32.3		
350	36.4	41.7	30.2		
400	35.8	38.6			
Limit Margin (dB) :			2.59	12.13	12.13
Frequency (MHz) :			311.61	51.94	51.94

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

Summary

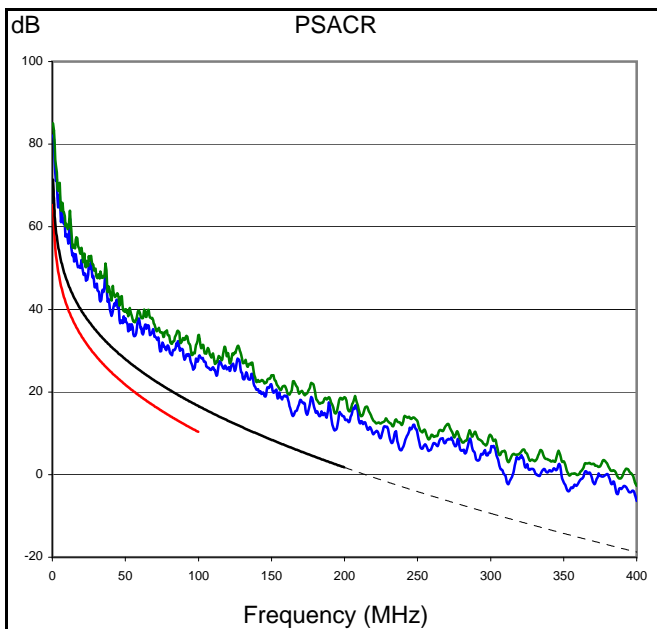
Client Nexans, INC, DBA Berk-Tek
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 ANSI/TIA-568-C.2, Category 5e
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Test Started 2/12/2010 9:35
Technician John Cash
Report No. 3193544CRT-041f
Length (m) 100
Temperature 20 °C
Test Status **PASS**



ACR					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	82.4	90.2	68.3	62.8	N/A
4	65.0	77.5	57.3	52.0	52.2
8	63.5	69.9	51.1	45.8	46.0
10	60.5	68.1	48.9	43.7	43.8
16	54.7	63.5	44.1	38.9	39.0
20	54.6	60.9	41.7	36.4	36.5
25	53.1	58.9	39.1	33.8	33.9
31.25	45.4	55.3	36.2	31.0	31.1
62.5	36.5	44.9	26.6	21.3	21.4
100	30.8	41.1	18.6	13.3	13.3
250	12.2	20.1			
350	-0.2	10.1			
400	-1.9	2.7			

Limit Margin (dB) : 6.77 12.01 11.94
 Frequency (MHz) : 32.96 32.96 32.96



PSACR					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	81.1	83.3	66.3	59.8	N/A
4	64.7	68.7	55.3	49.0	49.2
8	60.7	63.5	49.1	42.8	43.0
10	58.1	60.4	46.9	40.7	40.8
16	53.4	56.9	42.1	35.9	36.0
20	52.0	54.9	39.7	33.4	33.5
25	50.9	52.9	37.1	30.8	30.9
31.25	44.4	48.5	34.2	28.0	28.1
62.5	34.4	38.7	24.6	18.3	18.4
100	27.7	33.8	16.6	10.3	10.3
250	9.5	12.7			
350	-1.9	3.2			
400	-6.4	-2.8			

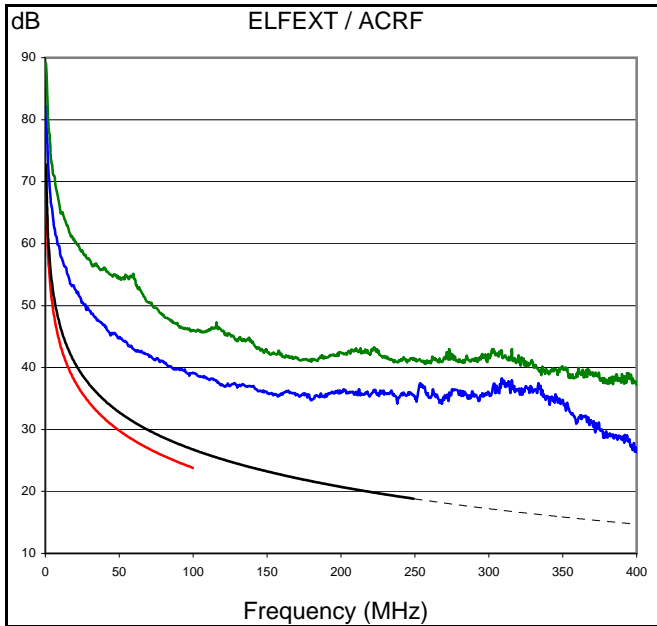
Limit Margin (dB) : 7.22 13.48 13.43
 Frequency (MHz) : 55.93 55.93 55.93

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

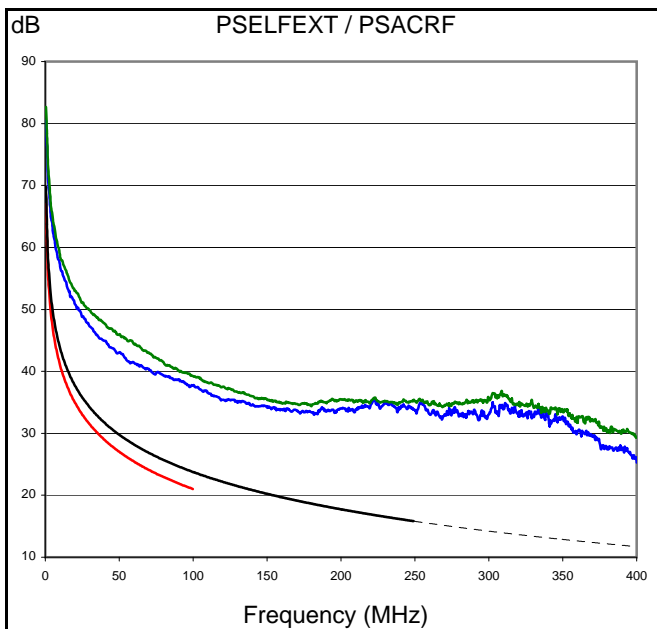
Summary

Client Nexans, INC, DBA Berk-Tek
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 ANSI/TIA-568-C.2, Category 5e
 ISO/IEC 11801, Category 5e
Part number 10032060
Description **Berk-Tek LANmark-350 CMP**
 4X24 UTP-CMP-Solid

Test Started 2/12/2010 9:35
Technician John Cash
Report No. 3193544CRT-041f
Length (m) 100
Temperature 20 °C
Test Status **PASS**



ELFEXT / ACRF					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	77.8	85.8	66.8	63.8	N/A
4	66.4	73.6	54.7	51.8	46.0
8	60.4	68.2	48.7	45.7	39.9
10	58.5	65.6	46.8	43.8	38.0
16	54.4	62.0	42.7	39.7	33.9
20	52.7	60.4	40.7	37.8	32.0
25	50.6	58.9	38.8	35.9	30.1
31.25	48.7	56.6	36.8	33.8	28.0
62.5	42.8	52.9	30.8	27.9	22.1
100	39.2	46.1	26.8	23.8	18.0
250	35.0	41.1	18.8		
350	34.8	39.9			
400	26.3	37.2			
Limit Margin (dB) :			11.04	13.99	20.06
Frequency (MHz) :			1.00	1.00	43.95



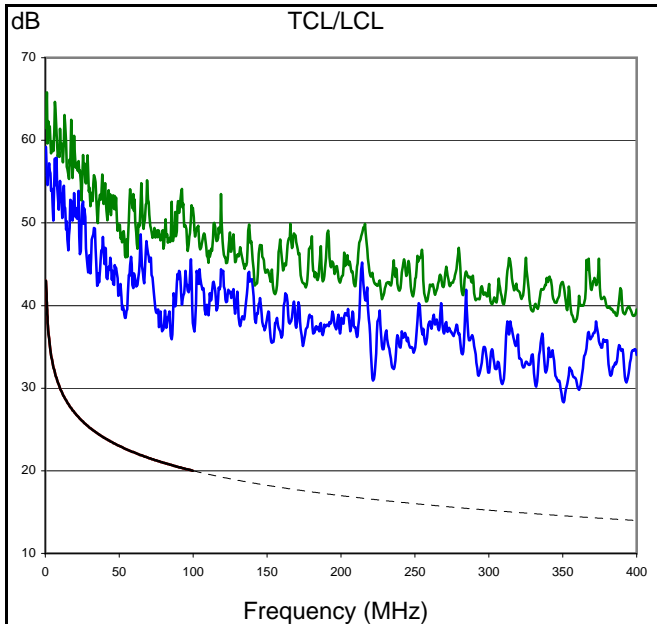
PSELFEXT / PSACRF					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	76.5	78.4	63.8	60.8	N/A
4	64.7	66.5	51.7	48.8	49.0
8	59.0	60.8	45.7	42.7	42.9
10	57.0	58.6	43.8	40.8	41.0
16	52.8	54.9	39.7	36.7	36.9
20	50.9	53.0	37.7	34.8	35.0
25	48.8	51.1	35.8	32.9	33.1
31.25	47.0	49.4	33.8	30.8	31.0
62.5	41.0	44.1	27.8	24.9	25.1
100	37.7	39.3	23.8	20.8	21.0
250	33.6	35.2	15.8		
350	32.7	33.5			
400	25.3	29.3			
Limit Margin (dB) :			12.73	15.68	15.48
Frequency (MHz) :			57.43	57.43	57.43

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

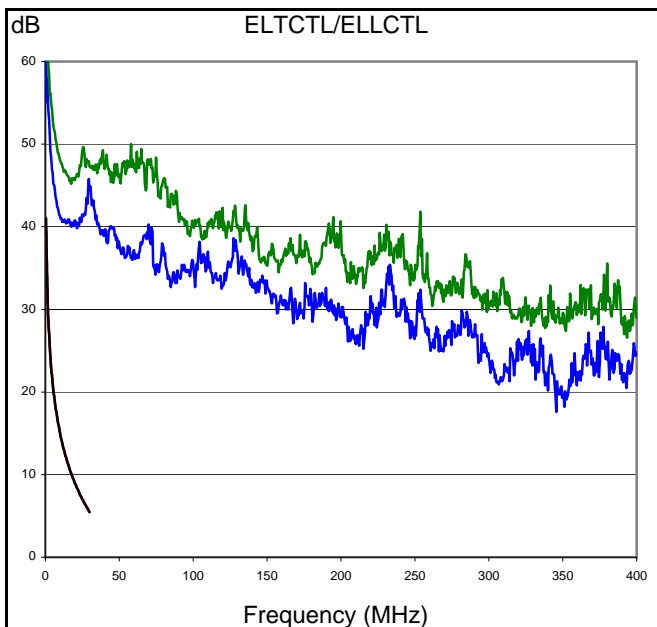
Summary

Client Nexans, INC, DBA Berk-Tek
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 ANSI/TIA-568-C.2, Category 5e
 ISO/IEC 11801, Category 5e
Part number 10032060
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 4X24 UTP-CMP-Solid

Test Started 2/12/2010 9:35
Technician John Cash
Report No. 3193544CRT-041f
Length (m) 100
Temperature 20 °C
Test Status **PASS**



TCL/LCL					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	55.7	65.8	40.0	N/A	40.0
4	53.9	58.4	34.0	N/A	34.0
8	54.4	59.4	31.0	N/A	31.0
10	55.1	61.4	30.0	N/A	30.0
16	48.5	55.3	28.0	N/A	28.0
20	52.1	58.6	27.0	N/A	27.0
25	52.1	55.0	26.0	N/A	26.0
31.25	48.0	53.1	25.0	N/A	25.0
62.5	42.5	46.9	22.0	N/A	22.0
100	37.9	51.8	20.0	N/A	20.0
250	34.9	43.3			
350	28.4	42.8			
400	34.0	39.5			
Limit Margin (dB) :			15.21	N/A	15.21
Frequency (MHz) :			85.39	N/A	85.39



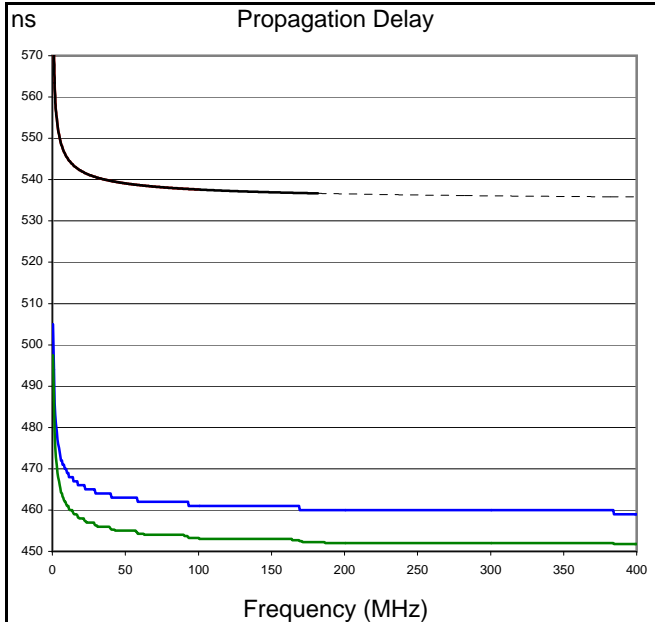
ELTCTL/ELLCTL					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	55.1	64.8	35.0	N/A	35.0
4	48.5	55.1	23.0	N/A	23.0
8	42.4	49.5	16.9	N/A	16.9
10	41.3	48.1	15.0	N/A	15.0
16	40.9	45.8	10.9	N/A	10.9
20	40.8	45.6	9.0	N/A	9.0
25	41.5	49.0	7.1	N/A	7.1
31.25	42.6	47.3			
62.5	36.6	47.3			
100	35.9	40.4			
250	27.9	35.4			
350	19.7	29.6			
400	24.4	28.9			
Limit Margin (dB) :			20.09	N/A	20.09
Frequency (MHz) :			1.00	N/A	1.00

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

Summary

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 ISO/IEC 11801, Category 5e
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 4X24 UTP-CMP-Solid

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Length (m) 100
Temperature 20 °C
Test Status PASS



Propagation Delay					
Freq. MHz	Worst Case	Average	LANmark Spec	TIA Spec	ISO/IEC Spec
1	494.0	486.5	570.0	570.0	N/A
4	476.0	468.0	552.0	552.0	552.0
8	471.0	462.5	546.7	546.7	546.7
10	469.0	461.0	545.4	545.4	545.4
16	467.0	459.0	543.0	543.0	543.0
20	466.0	458.0	542.1	542.1	542.1
25	465.0	457.0	541.2	541.2	541.2
31.25	464.0	456.0	540.4	540.4	540.4
62.5	462.0	454.3	538.6	538.6	538.6
100	461.0	453.3	537.6	537.6	537.6
250	460.0	452.0			
350	460.0	452.0			
400	459.0	451.8			
Limit Margin (dB) :			75.63	75.63	75.63
Frequency (MHz) :			13.98	13.98	13.98

Delay Skew				
Freq. MHz	Worst case	LANmark Spec	TIA Spec	ISO/IEC Spec
1-100	14.90	25	45	45

Low frequency measurements								
Parameter	Worst Case	Average	LANmark		TIA		ISO/IEC	
			Spec	Margin	Spec	Margin	Spec	Margin
Mutual capacitance (nF/100m)	4.52	3.24	5.60	1.08	5.60	1.08	N/A	N/A
Maximum Capacitance Unbalance Pair-to-Ground (pF/100m)	35.40	14.92	160.00	124.60	330.00	294.60	160.00	124.60
Conductor DC resistance (Ω)	8.64	6.36	9.38	0.74	9.38	0.74	9.50	0.86
DC Resistance Unbalance within a pair (%) using IEC calculation method	0.10%	0.04%	2.00%	1.90%	2.50%	2.40%	2.00%	1.90%
DC Resistance Unbalance between pairs (%)	1.78%	0.89%	4.00%	2.22%	N/A	N/A	4.00%	2.22%

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