

Project Number: G104239938

Date Issued: 6/13/2022

ETL Verified Certificate of Conformance number: 102929526CRT-002

Test Report Number: 104239938CRT-005e



Applicant:

Berk-Tek LLC
132 White Oak Rd
New Holland, PA 17557

Manufacturer:

Berk-Tek LLC
132 White Oak Rd
New Holland, PA 17557

Applicant Contact: Mr. Michael Boland

Mfg. Contact: Mr. Michael Boland

Dear Mr. Boland

Intertek is pleased to provide this letter report covering the testing of your 4-pair, 22 AWG, U/UTP, CMP, horizontal (solid) cable covered by ETL Verified certificate of conformance number 102929526CRT-002. The sample was randomly selected by an Intertek inspector from your manufacturing facility, Berk-Tek LLC, on 6/3/2021 for Quarter 2 2021 follow-up testing.

The testing was performed at Intertek located in Cortland, NY from 6/17/2021 through 6/17/2021, to the ANSI/TIA-568.2-D standard(s) for category 5e and passed the applicable requirements.

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.

Sincerely,

A handwritten signature in black ink that reads "Antoine Pelletier".

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

A handwritten signature in black ink that reads "David Ayers".

David Ayers
Technician
Global Cabling Products Testing
Phone: (607) 758-6321

Summary

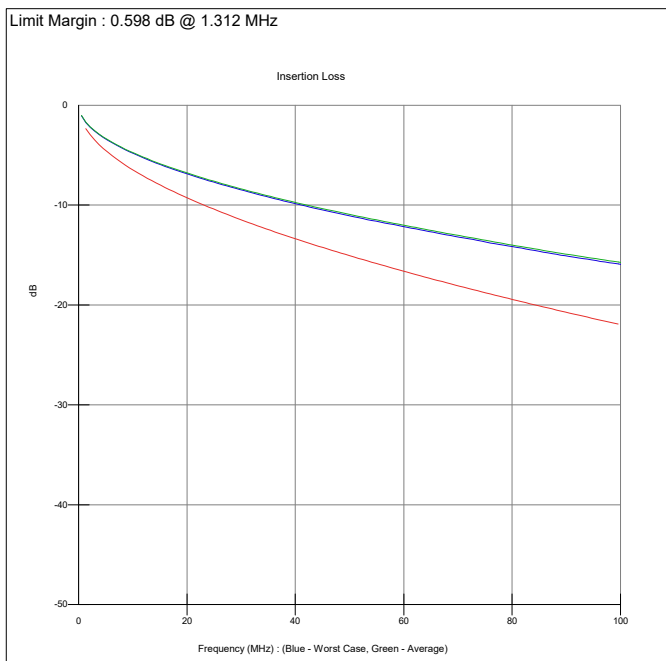
Client	Berk-Tek	Report No	104239938CRT-005e
Specification	ANSI-TIA-568-2-D Cat 5e Cable		
Part No	LM-IP-CMP	Length (m)	100.
Test Started	6/17/2021 3:27:38 PM	Temperature	20.2 °C
Description	4 Pair 22 AWG UTP CMP Solid		
Operator Name	David Ayers	Test Status	Complies

DC Resistance (Ohms)		
Worst Case	Average	Spec
5.3	5.2	9.4
5.3	5.2	9.4

DC Resistance Unbalance (%)		
Worst Case	Average	Spec
0.7	0.3	5.0

DC Resistance Unbalance Pair-Pair (%)		
Worst Case	Average	Spec
1.5	0.9	5.0

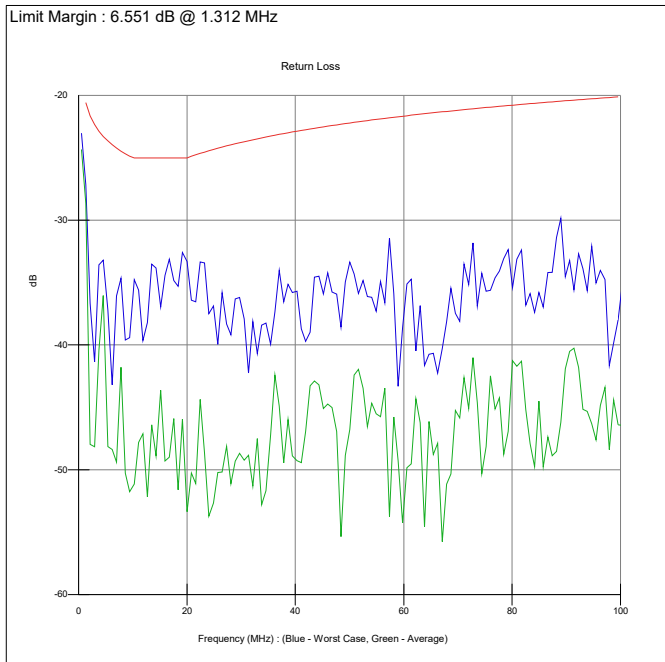
Capacitance Unbalance Pair-Ground (pF/100m)		
Worst Case	Average	Spec
19.6	7.4	330.0



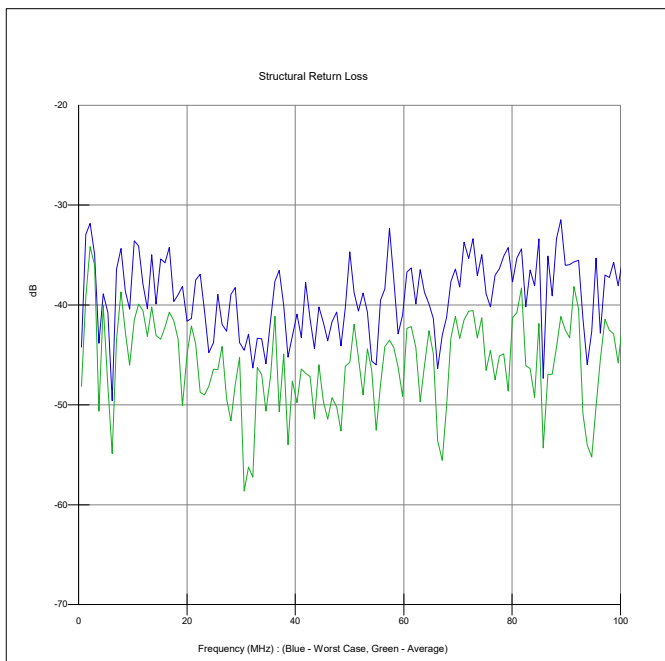
Insertion Loss			
Freq	Worst Case	Average	Spec
1.	1.5	1.4	2.1
4.	3.0	3.0	4.0
8.	4.3	4.2	5.8
10.	4.8	4.7	6.5
16.	6.1	6.0	8.2
20.	6.9	6.8	9.3
25.	7.7	7.6	10.4
31.25	8.7	8.6	11.7
62.5	12.4	12.3	17.0
100.	15.9	15.7	21.9

Summary

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Operator Name	David Ayers	Test Status	Complies



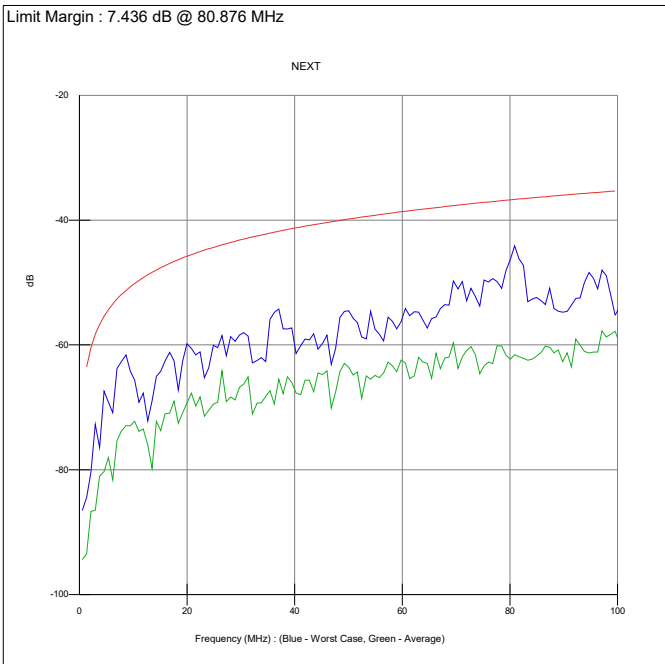
Return Loss			
Freq	Worst Case	Average	Spec
1.	25.9	27.0	20.2
4.	33.7	39.1	23.0
8.	37.3	43.8	24.5
10.	36.2	51.3	25.0
16.	34.3	49.3	25.0
20.	33.4	53.3	25.0
25.	37.4	52.2	24.3
31.25	43.2	48.9	23.6
62.5	39.7	45.0	21.5
100.	36.3	46.4	20.1



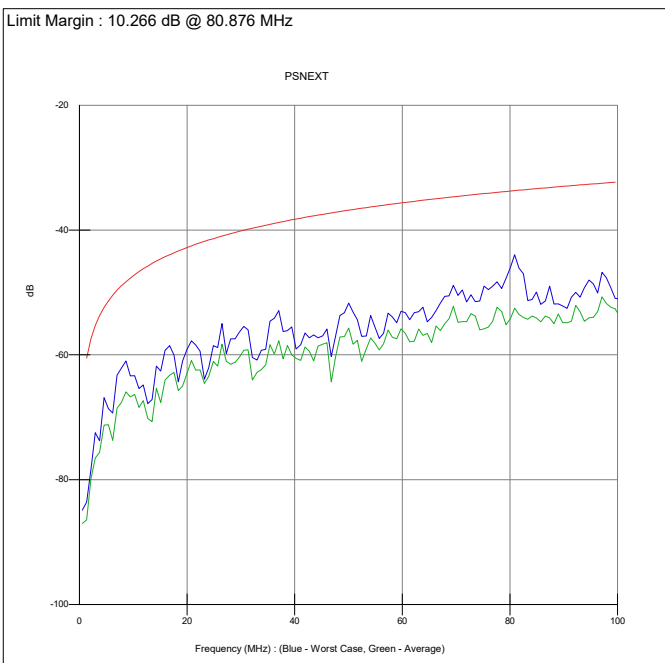
Structural Return Loss			
Freq	Worst Case	Average	Spec
1.	37.3	42.7	
4.	42.4	47.3	
8.	36.5	39.6	
10.	35.9	42.8	
16.	35.6	42.1	
20.	41.6	44.9	
25.	42.9	46.4	
31.25	43.9	56.5	
62.5	40.7	46.2	
100.	36.6	43.7	

Summary

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Test Started	6/17/2021 3:27:38 PM	Temperature	20.2 °C
Description	4 Pair 22 AWG UTP CMP Solid		
Operator Name	David Ayers	Test Status	Complies



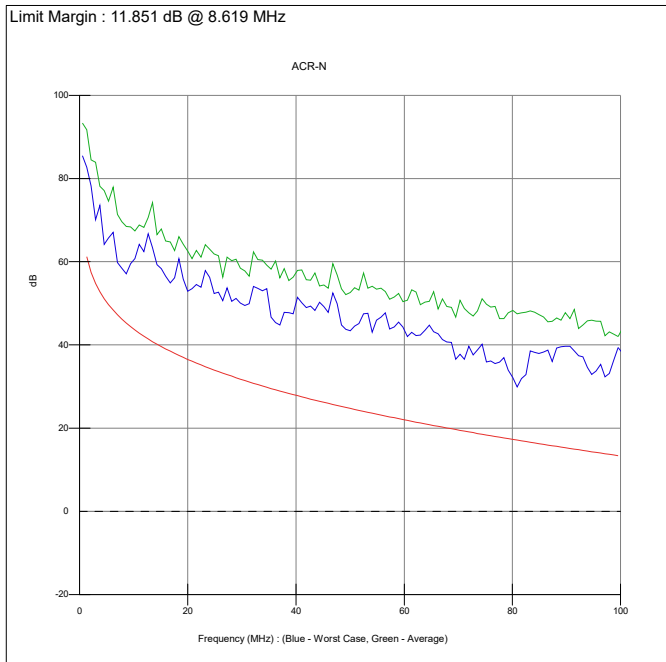
NEXT			
Freq	Worst Case	Average	Spec
1.	86.3	93.8	64.7
4.	76.6	80.8	56.3
8.	62.4	73.6	51.8
10.	66.0	72.4	50.3
16.	62.5	71.0	47.2
20.	59.8	69.3	45.8
25.	60.6	69.4	44.3
31.25	58.5	65.3	42.9
62.5	54.8	63.9	38.4
100.	54.5	58.9	35.3



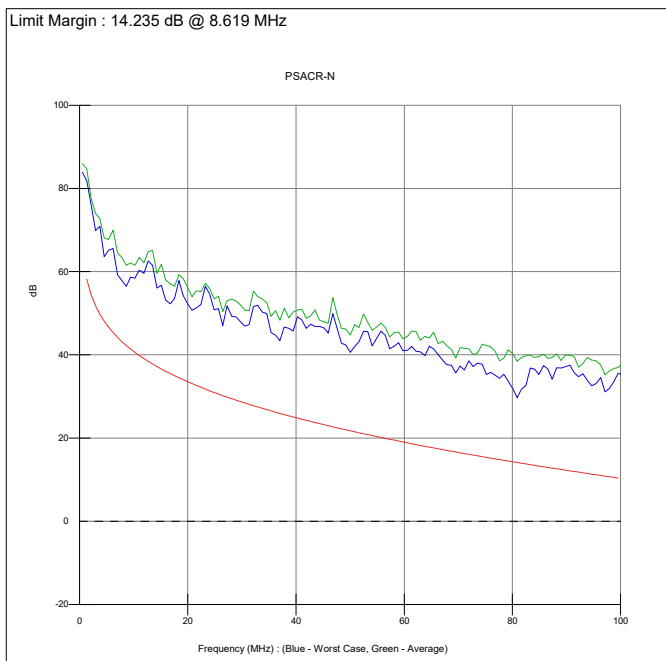
PSNEXT			
Freq	Worst Case	Average	Spec
1.	85.4	86.7	61.7
4.	72.5	74.2	53.3
8.	61.9	67.2	48.8
10.	63.9	66.5	47.3
16.	59.2	64.0	44.2
20.	59.1	62.9	42.8
25.	58.9	61.2	41.3
31.25	55.9	59.2	39.9
62.5	53.6	57.1	35.4
100.	51.7	53.3	32.3

Summary

Client	Berk-Tek	Report No	104239938CRT-005e
Specification	ANSI-TIA-568-2-D Cat 5e Cable		
Part No	LM-IP-CMP	Length (m)	100.
Test Started	6/17/2021 3:27:38 PM	Temperature	20.2 °C
Description	4 Pair 22 AWG UTP CMP Solid		
Operator Name	David Ayers	Test Status	Complies



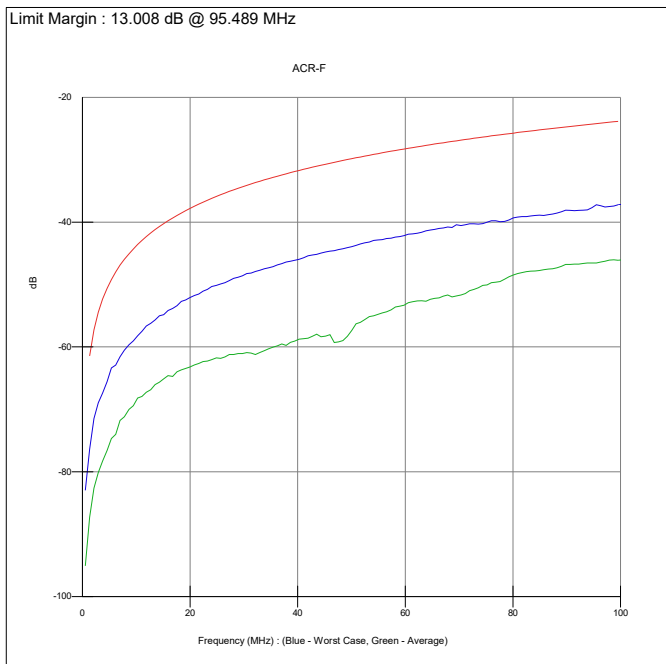
ACR-N			
Freq	Worst Case	Average	Spec
1.	84.8	92.4	62.6
4.	73.7	77.8	52.2
8.	58.1	69.4	46.0
10.	61.2	67.7	43.8
16.	56.5	65.0	39.0
20.	52.9	62.5	36.5
25.	52.9	61.8	33.9
31.25	49.8	56.7	31.2
62.5	42.4	51.6	21.4
100.	38.6	43.1	13.4



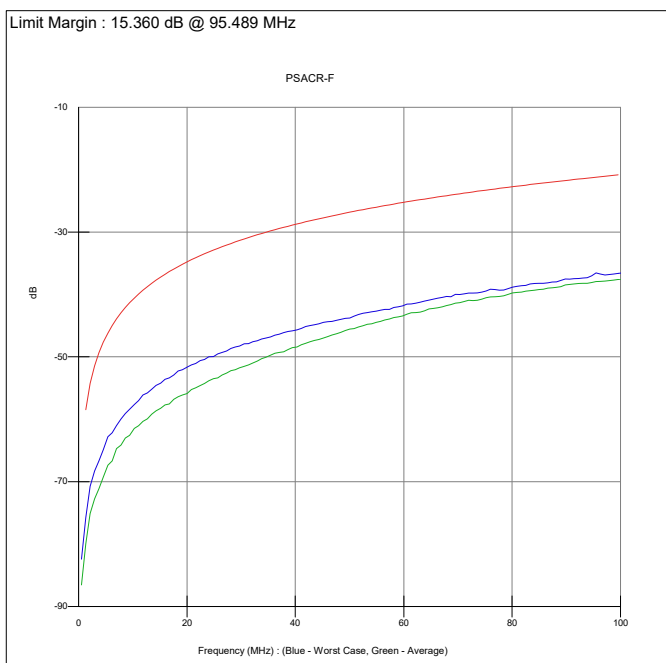
PSACR-N			
Freq	Worst Case	Average	Spec
1.	84.0	85.2	59.6
4.	69.5	71.3	49.2
8.	57.6	63.0	43.0
10.	59.1	61.7	40.8
16.	53.1	57.9	36.0
20.	52.2	56.1	33.5
25.	51.2	53.6	30.9
31.25	47.2	50.6	28.2
62.5	41.2	44.8	18.4
100.	35.8	37.5	10.4

Summary

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Description	4 Pair 22 AWG UTP CMP Solid		
Operator Name	David Ayers	Test Status	Complies



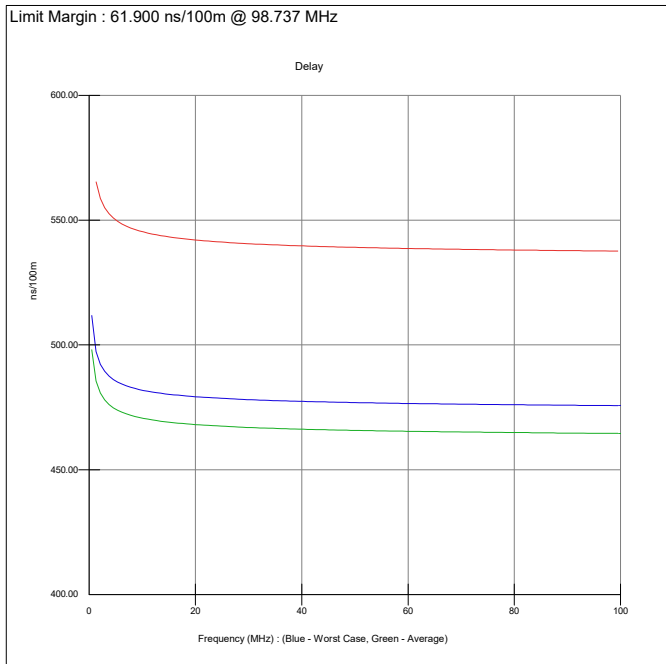
ACR-F			
Freq	Worst Case	Average	Spec
1.	78.9	90.3	63.0
4.	66.8	77.7	51.8
8.	60.3	70.9	45.7
10.	58.5	68.6	43.8
16.	54.2	64.6	39.7
20.	52.1	63.2	37.8
25.	50.1	61.8	35.8
31.25	48.2	61.0	33.9
62.5	41.7	52.6	27.9
100.	37.2	46.1	23.8



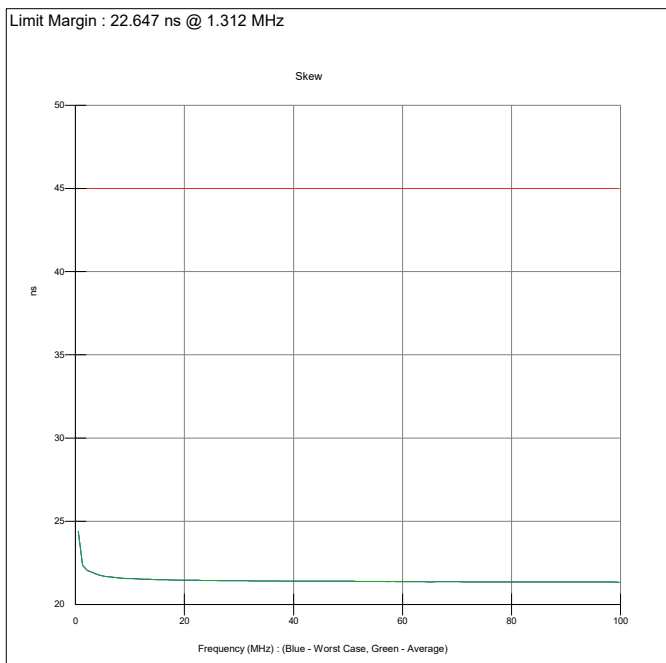
PSACR-F			
Freq	Worst Case	Average	Spec
1.	78.3	82.5	60.0
4.	66.1	70.6	48.8
8.	59.8	63.9	42.7
10.	57.9	61.8	40.8
16.	53.6	57.7	36.7
20.	51.6	55.9	34.8
25.	49.9	53.5	32.8
31.25	47.9	51.3	30.9
62.5	41.3	42.9	24.9
100.	36.6	37.5	20.8

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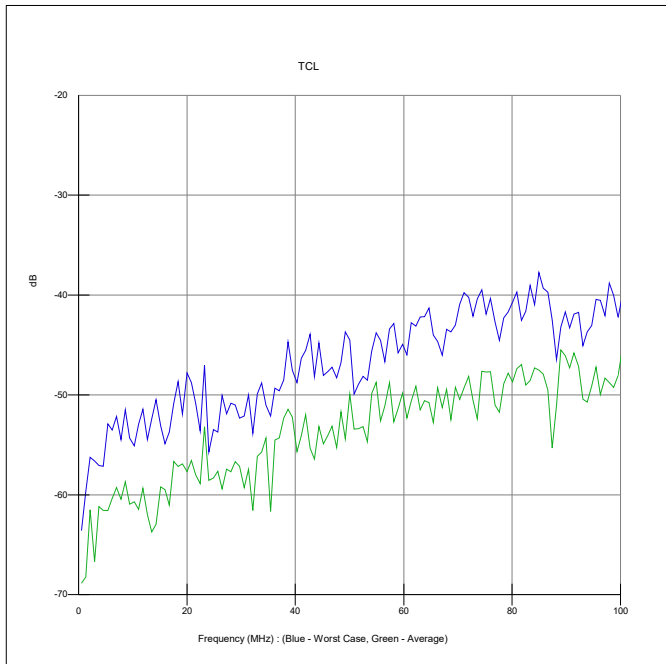
Delay			
Freq	Worst Case	Average	Spec
1.	502.9	490.4	568.0
4.	487.1	475.8	552.1
8.	483.0	471.7	546.7
10.	481.9	470.7	545.4
16.	480.0	468.8	543.0
20.	479.3	468.1	542.0
25.	478.6	467.4	541.2
31.25	478.0	466.8	540.4
62.5	476.5	465.3	538.6
100.	475.7	464.6	537.6



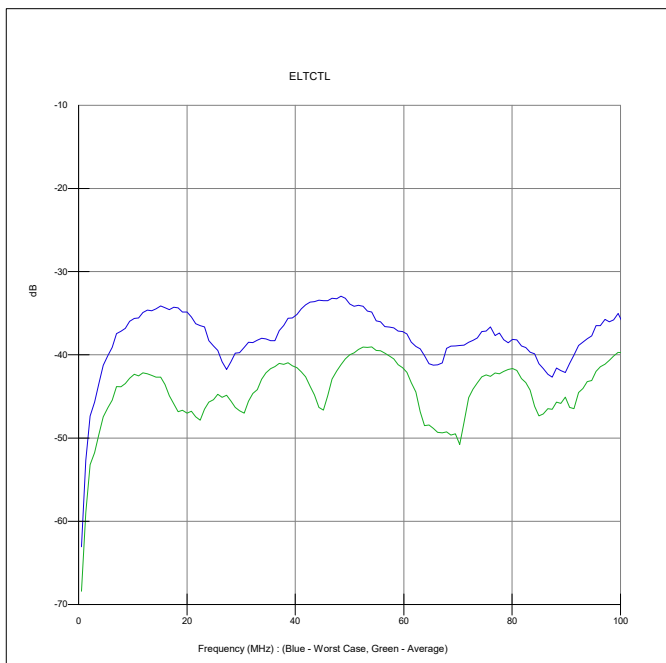
Skew			
Freq	Worst Case	Average	Spec
1.	23.1	23.1	45.0
4.	21.8	21.8	45.0
8.	21.6	21.6	45.0
10.	21.6	21.6	45.0
16.	21.5	21.5	45.0
20.	21.5	21.5	45.0
25.	21.4	21.4	45.0
31.25	21.4	21.4	45.0
62.5	21.4	21.4	45.0
100.	21.3	21.3	45.0

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Description	4 Pair 22 AWG UTP CMP Solid		
Operator Name	David Ayers	Test Status	Complies



TCL			
Freq	Worst Case	Average	Spec
1.	62.4	68.5	
4.	57.1	61.3	
8.	53.8	60.0	
10.	55.0	60.8	
16.	55.2	59.6	
20.	47.9	57.7	
25.	53.5	58.2	
31.25	50.9	57.7	
62.5	43.1	50.0	
100.	42.9	46.5	



ELTCTL			
Freq	Worst Case	Average	Spec
1.	56.9	62.6	
4.	42.8	48.9	
8.	37.1	43.7	
10.	35.7	42.5	
16.	34.4	43.7	
20.	34.8	47.0	
25.	39.0	45.3	
31.25	38.6	45.7	
62.5	39.1	45.3	
100.	35.7	39.7	