

Project Number: G104239938

Date Issued: 11/27/2024

ETL Verified Certificate of Conformance number: 105111567CRT-002

Test Report Number: 104239938CRT-025d



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, 23 AWG, U/UTP, CMP/CMX, horizontal (solid) cable covered by ETL Verified certificate of conformance number 105111567CRT-002. The sample was randomly selected by an Intertek inspector from your manufacturing facility, Berk-Tek LLC, on 10/23/2024 for Quarter 4 2024 follow-up testing.

The testing was performed at Intertek located in Cortland, NY from 11/22/2024 through 11/26/2024, to the ANSI/TIA-568.2-D and LM-RDT IO standard(s) for category 6A 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

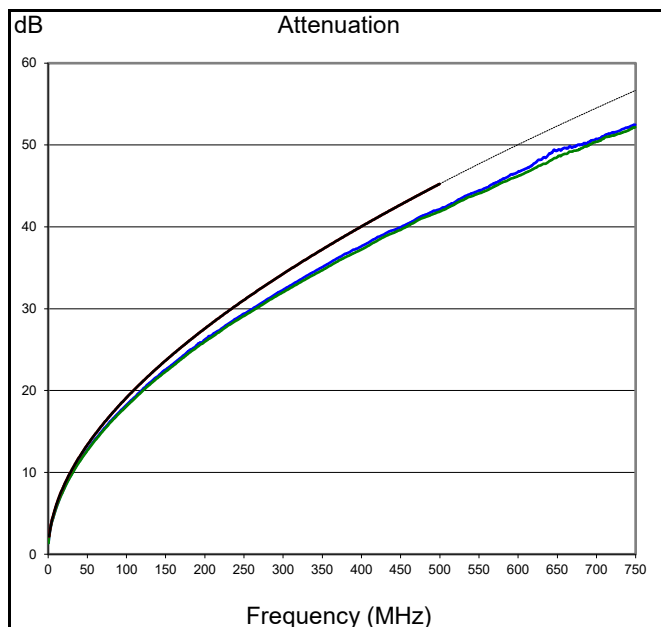
A handwritten signature in black ink that reads "Craig L. Williams".

Craig L. Williams
Technician
Global Cabling Products Testing
Phone: (607) 758-6321

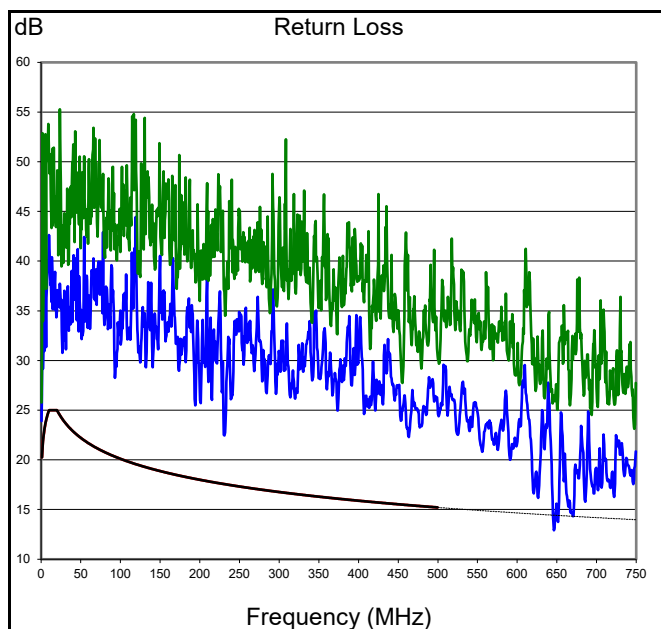
Summary

Client Berk-Tek LLC
Specifications LM-RDT
ANSI/TIA-568.2-D, Category 6A
Part Number LM-RDT IO CMX CMP UTP
Description **Leviton LM-RDT IO**
4X23 U/UTP-CMX/CMP-Solid

Test Started 11/22/2024 14:42
Technician Craig Williams
Report No. 104239938CRT-025d
Length (m) 100
Temperature 22.2 °C
Test Status **PASS**



Attenuation				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	2.0	2.0	2.1	2.1
4	3.7	3.7	3.8	3.8
8	5.0	5.0	5.3	5.3
10	5.6	5.5	5.9	5.9
16	7.2	7.1	7.5	7.5
20	8.0	7.9	8.4	8.4
25	8.9	8.8	9.4	9.4
31.25	9.4	9.3	10.5	10.5
62.5	14.3	14.2	15.0	15.0
100	18.2	18.1	19.1	19.1
250	29.4	29.1	31.1	31.1
500	42.1	41.8	45.3	45.3
600	46.8	46.2		
750	52.5	52.2		
Limit Margin (dB) :			0.14	0.14
Frequency (MHz) :			1.75	1.75



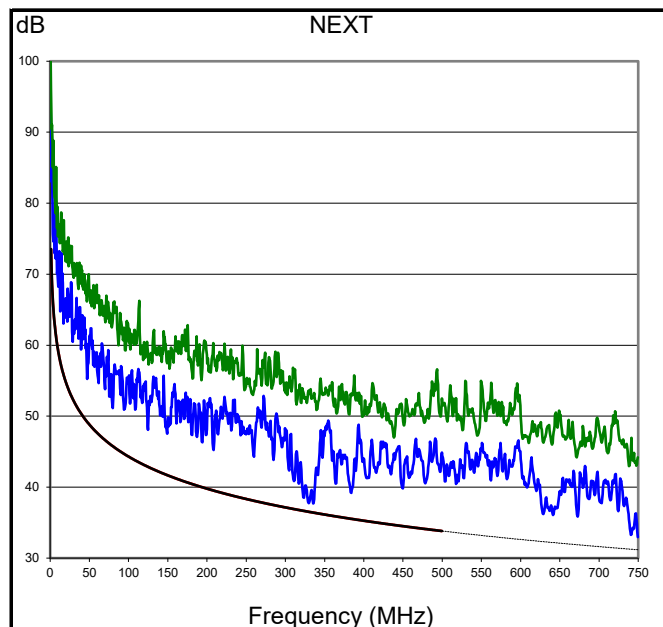
Return Loss				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	26.5	29.3	20.0	20.0
4	31.0	39.6	23.0	23.0
8	38.9	50.1	24.5	24.5
10	42.6	50.9	25.0	25.0
16	35.5	51.4	25.0	25.0
20	35.0	44.7	25.0	25.0
25	35.2	47.9	24.3	24.3
31.25	34.1	42.4	23.6	23.6
62.5	34.8	43.7	21.5	21.5
100	35.0	40.9	20.1	20.1
250	34.9	44.5	17.3	17.3
500	25.3	30.4	15.2	15.2
600	21.9	29.7		
750	20.8	27.7		
Limit Margin (dB) :			4.88	4.88
Frequency (MHz) :			231.01	231.01

Legend : Blue - Worst Case; Green - Average; Red - TIA Specification; Black - LM-RDT Specification

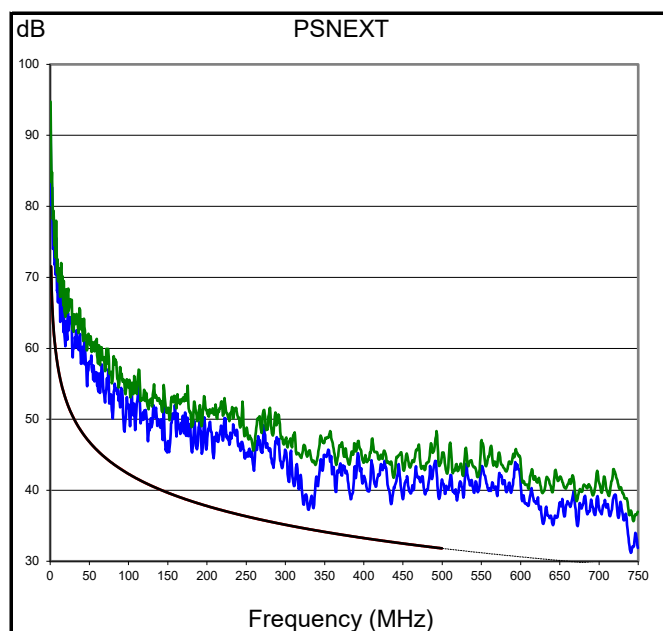
Summary

Client Berk-Tek LLC
Specifications LM-RDT
ANSI/TIA-568.2-D, Category 6A
Part Number LM-RDT IO CMX CMP UTP
Description **Leviton LM-RDT IO**
4X23 U/UTP-CMX/CMP-Solid

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NEXT				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	85.4	96.1	74.3	74.3
4	74.6	88.8	65.3	65.3
8	75.0	81.3	60.8	60.8
10	69.0	75.3	59.3	59.3
16	68.8	73.2	56.2	56.2
20	66.6	71.8	54.8	54.8
25	64.0	73.6	53.3	53.3
31.25	66.9	74.0	51.9	51.9
62.5	58.0	67.0	47.4	47.4
100	54.5	62.1	44.3	44.3
250	47.5	54.2	38.3	38.3
500	44.9	52.5	33.8	33.8
600	44.0	49.9		
750	33.0	44.2		
Limit Margin (dB) : 1.23 1.23				
Frequency (MHz) : 329.71 329.71				



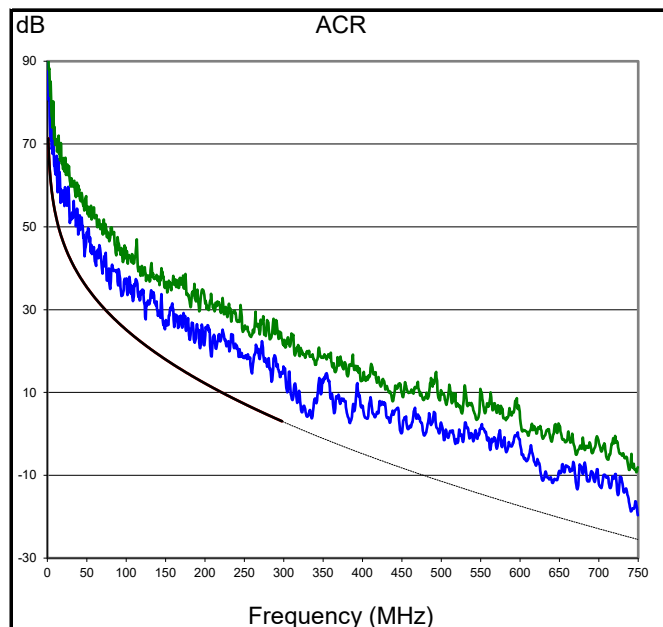
PSNEXT				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	84.3	88.9	72.3	72.3
4	74.2	79.4	63.3	63.3
8	73.4	75.4	58.8	58.8
10	66.5	69.5	57.3	57.3
16	66.0	67.4	54.2	54.2
20	62.7	65.9	52.8	52.8
25	63.6	66.5	51.3	51.3
31.25	63.5	66.8	49.9	49.9
62.5	56.5	60.4	45.4	45.4
100	51.6	54.5	42.3	42.3
250	44.9	48.3	36.3	36.3
500	41.5	44.8	31.8	31.8
600	40.7	43.6		
750	31.9	37.0		
Limit Margin (dB) : 2.71 2.71				
Frequency (MHz) : 329.71 329.71				

Legend : Blue - Worst Case; Green - Average; Red - TIA Specification; Black - LM-RDT Specification

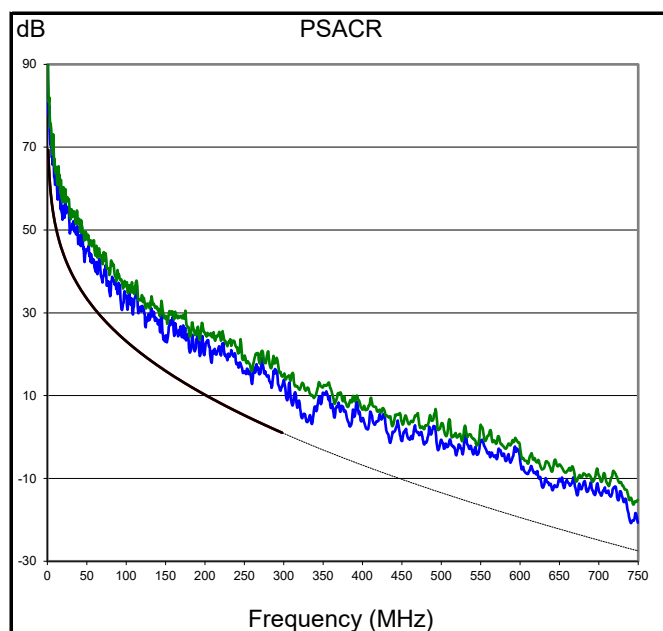
Summary

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Specifications LM-RDT
ANSI/TIA-568.2-D, Category 6A
Part Number LM-RDT IO CMX CMP UTP
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ACR				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	83.4	94.1	72.2	72.2
4	70.9	85.1	61.5	61.5
8	70.0	76.3	55.4	55.4
10	63.4	69.8	53.4	53.4
16	61.7	66.1	48.8	48.8
20	58.7	63.9	46.4	46.4
25	55.1	64.7	44.0	44.0
31.25	57.6	64.7	41.4	41.4
62.5	43.8	52.9	32.4	32.4
100	36.4	44.0	25.2	25.2
250	18.3	25.1	7.3	7.3
500	2.7	10.6		
600	-2.4	3.7		
750	-19.6	-8.0		
Limit Margin (dB) :			6.26	6.26
Frequency (MHz) :			79.84	79.84



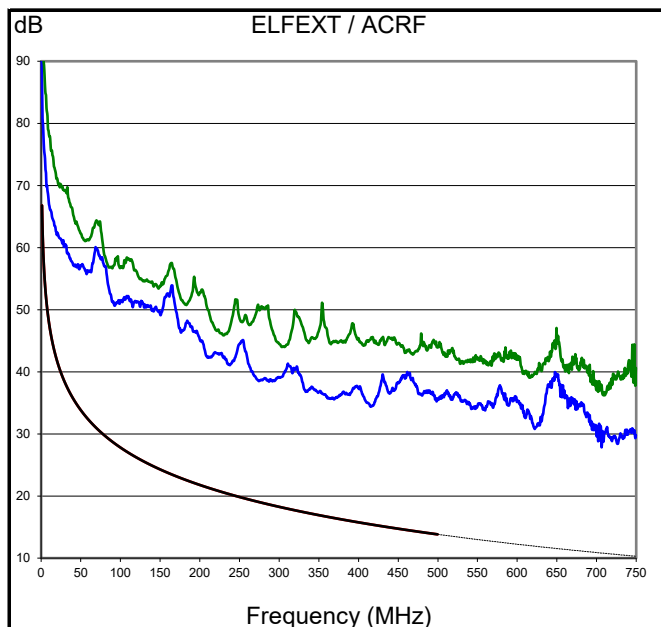
PSACR				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	82.3	86.9	70.2	70.2
4	70.5	75.7	59.5	59.5
8	68.3	70.4	53.4	53.4
10	60.9	64.0	51.4	51.4
16	58.9	60.4	46.8	46.8
20	54.8	58.1	44.4	44.4
25	54.7	57.6	42.0	42.0
31.25	54.4	57.5	39.4	39.4
62.5	42.3	46.2	30.4	30.4
100	33.7	36.4	23.2	23.2
250	15.7	19.2	5.3	5.3
500	-0.6	2.9		
600	-5.5	-2.6		
750	-20.7	-15.2		
Limit Margin (dB) :			6.60	6.60
Frequency (MHz) :			94.83	94.83

Legend : Blue - Worst Case; Green - Average; Red - TIA Specification; Black - LM-RDT Specification

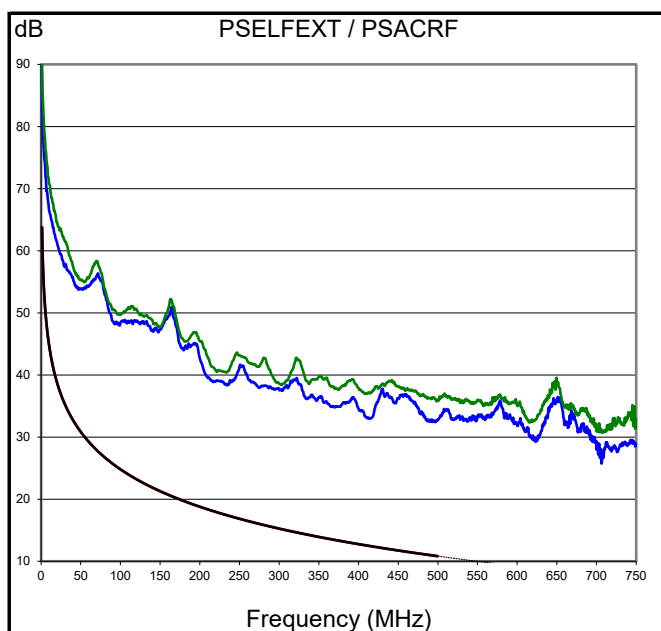
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Part Number LM-RDT IO CMX CMP UTP
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Report No. 104239938CRT-025d
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Temperature 22.2 °C
Test Status **PASS**



ELFEXT / ACRF				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	87.2	97.0	67.8	67.8
4	75.1	87.8	55.8	55.8
8	69.1	81.2	49.7	49.7
10	67.0	78.2	47.8	47.8
16	64.1	73.1	43.7	43.7
20	62.0	71.2	41.8	41.8
25	61.4	70.1	39.8	39.8
31.25	60.9	69.4	37.9	37.9
62.5	56.1	61.7	31.9	31.9
100	51.4	56.7	27.8	27.8
250	44.4	48.8	19.8	19.8
500	35.7	43.9	13.8	13.8
600	35.4	42.6		
750	29.8	40.6		
Limit Margin (dB) :			17.84	17.84
Frequency (MHz) :			1.75	1.75



PSELFEXT / PSACRF				
Freq. MHz	Worst Case	Average	LM-RDT Spec	TIA Spec
1	86.2	90.3	64.8	64.8
4	74.6	78.7	52.8	52.8
8	68.9	73.4	46.7	46.7
10	66.6	71.0	44.8	44.8
16	63.1	66.4	40.7	40.7
20	61.4	64.6	38.8	38.8
25	59.4	63.3	36.8	36.8
31.25	58.5	62.2	34.9	34.9
62.5	54.7	56.3	28.9	28.9
100	48.3	49.7	24.8	24.8
250	41.1	43.2	16.8	16.8
500	32.7	36.0	10.8	10.8
600	31.8	35.0		
750	29.0	32.9		
Limit Margin (dB) :			20.33	20.33
Frequency (MHz) :			1.75	1.75

Legend : Blue - Worst Case; Green - Average; Red - TIA Specification; Black - LM-RDT Specification