

Production

Gruber el-teknik ApS

19/12/2021

Test Name	Length (m)	Date	Cable Category	Test Standard	NEXT Margin (dB)	Result
CAT6A PLA1	10.13	08/09/2021 11:47	Cat6A	ANSI/TIA-568.2-D-2018	4.40	Pass





Test ID: CAT6A PLA1
Date/Time: 08/09/2021 11:47
Project Name: Production
Contractor Name: Gruber el-teknik ApS
Operator: Default User

Test Standard: ANSI/TIA-568.2-D-2018
Test Limit: Permanent Link/Cat6A
Cable Brand/Model: Generic/Cat6a-STP
Cable Type/Shield: Cat6A/STP
Cable NVP: 72 %
Main Connector: Generic
Remote Connector: Generic

Tester Model: LanTEK IV 500

Main Handset
S/N: 21360052
S/W: 1.88
Calibration Date: 08/09/2021
Cat 6A PL : S/N 21330009

Remote Handset
S/N: 21360097
S/W: 1.88
Calibration Date: 08/09/2021
S/N 21330005

Low Frequency Tests				Headroom Summary			
Test	Pair	Limit	Result	Margin (dB)	MHz	Pair	Side
Length	78	90 m	10.13 m	NEXT	4.40	36-45	Remote
Delay	12	498 ns	48 ns	PSNEXT	4.70	45	Remote
Skew	12	44 ns	2 ns	RL	6.70	78	Remote
Impedance	n/a	n/a	n/a	IL	2.90	12	--
Loop Res	78	21 Ω	1.57 Ω	TCL	n/a	n/a	n/a
				ELTCTL	n/a	n/a	n/a
DCRU							
Intra-pair	78	0.20 Ω	0.01 Ω				
P2P	36-78	0.20 Ω	0.04 Ω				



Main Handset				Remote Handset																																	
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>NEXT</td><td>✓ 4.70 dB</td><td>35.90 dB</td></tr><tr><td>Pair</td><td>36-45</td><td>36-45</td></tr><tr><td>Limit</td><td>43.73 dB</td><td>26.79 dB</td></tr><tr><td>Freq.</td><td>76.50 MHz</td><td>495 MHz</td></tr></table>					Margin	Value	NEXT	✓ 4.70 dB	35.90 dB	Pair	36-45	36-45	Limit	43.73 dB	26.79 dB	Freq.	76.50 MHz	495 MHz	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>NEXT</td><td>✓ 4.40 dB</td><td>35.40 dB</td></tr><tr><td>Pair</td><td>36-45</td><td>36-45</td></tr><tr><td>Limit</td><td>43.73 dB</td><td>26.79 dB</td></tr><tr><td>Freq.</td><td>76.50 MHz</td><td>495 MHz</td></tr></table>					Margin	Value	NEXT	✓ 4.40 dB	35.40 dB	Pair	36-45	36-45	Limit	43.73 dB	26.79 dB	Freq.	76.50 MHz	495 MHz
	Margin	Value																																			
NEXT	✓ 4.70 dB	35.90 dB																																			
Pair	36-45	36-45																																			
Limit	43.73 dB	26.79 dB																																			
Freq.	76.50 MHz	495 MHz																																			
	Margin	Value																																			
NEXT	✓ 4.40 dB	35.40 dB																																			
Pair	36-45	36-45																																			
Limit	43.73 dB	26.79 dB																																			
Freq.	76.50 MHz	495 MHz																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSNEXT</td><td>✓ 5.30 dB</td><td>32.70 dB</td></tr><tr><td>Pair</td><td>45</td><td>36</td></tr><tr><td>Limit</td><td>41.21 dB</td><td>23.88 dB</td></tr><tr><td>Freq.</td><td>76.50 MHz</td><td>496 MHz</td></tr></table>					Margin	Value	PSNEXT	✓ 5.30 dB	32.70 dB	Pair	45	36	Limit	41.21 dB	23.88 dB	Freq.	76.50 MHz	496 MHz	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSNEXT</td><td>✓ 4.70 dB</td><td>33.10 dB</td></tr><tr><td>Pair</td><td>45</td><td>36</td></tr><tr><td>Limit</td><td>47.16 dB</td><td>23.88 dB</td></tr><tr><td>Freq.</td><td>33 MHz</td><td>496 MHz</td></tr></table>					Margin	Value	PSNEXT	✓ 4.70 dB	33.10 dB	Pair	45	36	Limit	47.16 dB	23.88 dB	Freq.	33 MHz	496 MHz
	Margin	Value																																			
PSNEXT	✓ 5.30 dB	32.70 dB																																			
Pair	45	36																																			
Limit	41.21 dB	23.88 dB																																			
Freq.	76.50 MHz	496 MHz																																			
	Margin	Value																																			
PSNEXT	✓ 4.70 dB	33.10 dB																																			
Pair	45	36																																			
Limit	47.16 dB	23.88 dB																																			
Freq.	33 MHz	496 MHz																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>ACR-F</td><td>✓ 14.40 dB</td><td>25.40 dB</td></tr><tr><td>Pair</td><td>12-36</td><td>36-12</td></tr><tr><td>Limit</td><td>53.95 dB</td><td>10.51 dB</td></tr><tr><td>Freq.</td><td>3.25 MHz</td><td>483 MHz</td></tr></table>					Margin	Value	ACR-F	✓ 14.40 dB	25.40 dB	Pair	12-36	36-12	Limit	53.95 dB	10.51 dB	Freq.	3.25 MHz	483 MHz	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>ACR-F</td><td>✓ 14.50 dB</td><td>25.30 dB</td></tr><tr><td>Pair</td><td>12-36</td><td>36-12</td></tr><tr><td>Limit</td><td>52.48 dB</td><td>10.33 dB</td></tr><tr><td>Freq.</td><td>3.85 MHz</td><td>493 MHz</td></tr></table>					Margin	Value	ACR-F	✓ 14.50 dB	25.30 dB	Pair	12-36	36-12	Limit	52.48 dB	10.33 dB	Freq.	3.85 MHz	493 MHz
	Margin	Value																																			
ACR-F	✓ 14.40 dB	25.40 dB																																			
Pair	12-36	36-12																																			
Limit	53.95 dB	10.51 dB																																			
Freq.	3.25 MHz	483 MHz																																			
	Margin	Value																																			
ACR-F	✓ 14.50 dB	25.30 dB																																			
Pair	12-36	36-12																																			
Limit	52.48 dB	10.33 dB																																			
Freq.	3.85 MHz	493 MHz																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSACR-F</td><td>✓ 11.20 dB</td><td>23.90 dB</td></tr><tr><td>Pair</td><td>12</td><td>36</td></tr><tr><td>Limit</td><td>61.19 dB</td><td>7.46 dB</td></tr><tr><td>Freq.</td><td>1 MHz</td><td>486 MHz</td></tr></table>					Margin	Value	PSACR-F	✓ 11.20 dB	23.90 dB	Pair	12	36	Limit	61.19 dB	7.46 dB	Freq.	1 MHz	486 MHz	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSACR-F</td><td>✓ 11.10 dB</td><td>24.20 dB</td></tr><tr><td>Pair</td><td>12</td><td>36</td></tr><tr><td>Limit</td><td>61.19 dB</td><td>7.49 dB</td></tr><tr><td>Freq.</td><td>1 MHz</td><td>484 MHz</td></tr></table>					Margin	Value	PSACR-F	✓ 11.10 dB	24.20 dB	Pair	12	36	Limit	61.19 dB	7.49 dB	Freq.	1 MHz	484 MHz
	Margin	Value																																			
PSACR-F	✓ 11.20 dB	23.90 dB																																			
Pair	12	36																																			
Limit	61.19 dB	7.46 dB																																			
Freq.	1 MHz	486 MHz																																			
	Margin	Value																																			
PSACR-F	✓ 11.10 dB	24.20 dB																																			
Pair	12	36																																			
Limit	61.19 dB	7.49 dB																																			
Freq.	1 MHz	484 MHz																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>RL</td><td>✓ 8.70 dB</td><td>16.70 dB</td></tr><tr><td>Pair</td><td>78</td><td>78</td></tr><tr><td>Limit</td><td>8 dB</td><td>8 dB</td></tr><tr><td>Freq.</td><td>473 MHz</td><td>473 MHz</td></tr></table>					Margin	Value	RL	✓ 8.70 dB	16.70 dB	Pair	78	78	Limit	8 dB	8 dB	Freq.	473 MHz	473 MHz	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>RL</td><td>✓ 6.70 dB</td><td>14.70 dB</td></tr><tr><td>Pair</td><td>78</td><td>78</td></tr><tr><td>Limit</td><td>8 dB</td><td>8 dB</td></tr><tr><td>Freq.</td><td>474 MHz</td><td>474 MHz</td></tr></table>					Margin	Value	RL	✓ 6.70 dB	14.70 dB	Pair	78	78	Limit	8 dB	8 dB	Freq.	474 MHz	474 MHz
	Margin	Value																																			
RL	✓ 8.70 dB	16.70 dB																																			
Pair	78	78																																			
Limit	8 dB	8 dB																																			
Freq.	473 MHz	473 MHz																																			
	Margin	Value																																			
RL	✓ 6.70 dB	14.70 dB																																			
Pair	78	78																																			
Limit	8 dB	8 dB																																			
Freq.	474 MHz	474 MHz																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>ACR-N</td><td>✗ n/a</td><td>n/a</td></tr><tr><td>Pair</td><td>12-36</td><td>12-36</td></tr><tr><td>Limit</td><td>n/a</td><td>n/a</td></tr><tr><td>Freq.</td><td>n/a</td><td>n/a</td></tr></table>					Margin	Value	ACR-N	✗ n/a	n/a	Pair	12-36	12-36	Limit	n/a	n/a	Freq.	n/a	n/a	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>ACR-N</td><td>✗ n/a</td><td>n/a</td></tr><tr><td>Pair</td><td>12-36</td><td>12-36</td></tr><tr><td>Limit</td><td>n/a</td><td>n/a</td></tr><tr><td>Freq.</td><td>n/a</td><td>n/a</td></tr></table>					Margin	Value	ACR-N	✗ n/a	n/a	Pair	12-36	12-36	Limit	n/a	n/a	Freq.	n/a	n/a
	Margin	Value																																			
ACR-N	✗ n/a	n/a																																			
Pair	12-36	12-36																																			
Limit	n/a	n/a																																			
Freq.	n/a	n/a																																			
	Margin	Value																																			
ACR-N	✗ n/a	n/a																																			
Pair	12-36	12-36																																			
Limit	n/a	n/a																																			
Freq.	n/a	n/a																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSACR-N</td><td>✗ n/a</td><td>n/a</td></tr><tr><td>Pair</td><td>12</td><td>12</td></tr><tr><td>Limit</td><td>n/a</td><td>n/a</td></tr><tr><td>Freq.</td><td>n/a</td><td>n/a</td></tr></table>					Margin	Value	PSACR-N	✗ n/a	n/a	Pair	12	12	Limit	n/a	n/a	Freq.	n/a	n/a	<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>PSACR-N</td><td>✗ n/a</td><td>n/a</td></tr><tr><td>Pair</td><td>12</td><td>12</td></tr><tr><td>Limit</td><td>n/a</td><td>n/a</td></tr><tr><td>Freq.</td><td>n/a</td><td>n/a</td></tr></table>					Margin	Value	PSACR-N	✗ n/a	n/a	Pair	12	12	Limit	n/a	n/a	Freq.	n/a	n/a
	Margin	Value																																			
PSACR-N	✗ n/a	n/a																																			
Pair	12	12																																			
Limit	n/a	n/a																																			
Freq.	n/a	n/a																																			
	Margin	Value																																			
PSACR-N	✗ n/a	n/a																																			
Pair	12	12																																			
Limit	n/a	n/a																																			
Freq.	n/a	n/a																																			
<table><tr><th></th><th>Margin</th><th>Value</th></tr><tr><td>IL</td><td>✓ 2.90 dB</td><td>4.50 dB</td></tr><tr><td>Pair</td><td>12</td><td>12</td></tr><tr><td>Limit</td><td>3 dB</td><td>43.44 dB</td></tr><tr><td>Freq.</td><td>1.90 MHz</td><td>494 MHz</td></tr></table>					Margin	Value	IL	✓ 2.90 dB	4.50 dB	Pair	12	12	Limit	3 dB	43.44 dB	Freq.	1.90 MHz	494 MHz																			
	Margin	Value																																			
IL	✓ 2.90 dB	4.50 dB																																			
Pair	12	12																																			
Limit	3 dB	43.44 dB																																			
Freq.	1.90 MHz	494 MHz																																			

Supported Applications:

Ethernet 10BASE-T, ADSL, VDSL, Analog Phone, ATM 25.6, ATM 51.84, ISDN BRI, ISDN PRI, Ethernet 100BASE-TX, Ethernet 1000BASE-T, Ethernet 1000BASE-TX, PoE IEEE 802.3af/at/bt, HDBaseT 1080P, VOIP, ATM 155.52, NBASE-T 2.5G, NBASE-T 5G, HDBaseT 2k, HDBaseT 4k, ATM 1.2G, Ethernet 10GBASE-T

Report Generated 19/12/2021 19:17

Page 2



TREND NETWORKS