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**TEST REPORT FOR GLENAIR
EL OCHITO PERFORMANCE AT TEMPERATURE**

REPORT NO. GT-22-026



El Ochito White



El Ochito Blue

PREPARED BY: *B Samowitz*
Bryan Samowitz

DATE: 02/07/2022

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TEST REPORT
Glenair El Ochito Performance at
Temperature

No.: GT-22-026
 Date: February 7, 2022
 Revision: A
 Sheet 2 of 16

REVISION HISTORY

REVISION LETTER	DESCRIPTION OF REVISION	DATE	APPROVAL
A	Released	02/07/22	B. Samowitz

1.0 Purpose

A variety of testing has been performed on El Ochito White (858-003 & 858-004), and El Ochito Blue (858-028 & 858-029). This document serves as a single report for the extreme temperatures that the products have been shown to maintain functionality at.

1.1 Scope

This report summarizes environmental and electrical testing and results thereof in accordance with the test reports listed below. The information in this report was obtained from tests conducted by Vertical Laboratories LLC and Glenair Inc. The documents listed below are on file at Glenair and available upon request.

Applicable Test Reports			
Test Report Number	Extreme Temperature Tested	Provider	Date Tested
GT-20-203	-100°C (El Ochito White)	Glenair Inc	02/24/2020
GT-21-365	-65°C (El Ochito Blue) +175°C (El Ochito Blue & White)	Glenair Inc	01/26/2022

1.2 Results of Testing

Testing Summary		
Protocol Tested	Extreme Passing Temperatures	
	Low	High
10GBASE-T (El Ochito White)	-100°C	+175°C
USB 3.0 (El Ochito Blue)	-65°C	+175°C

1.3 Test Specimen

For each test, El Ochito White contacts were terminated onto Ethernet cable per 8571-0004. El Ochito Blue contacts were terminated onto USB 3.0 cable per 8572-0024.

See the reports specified in Table 1 for more details.



TEST REPORT
Glenair El Ochito Performance at
Temperature

No.: GT-22-026
Date: February 7, 2022
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Sheet 3 of 16

APPENDIX A

Fluke Network Analyzer
El Ochito White Ethernet Performance Checks



Cable ID: 1-1R -100C CYCLE 1

Test Limit: 10GBASE-T

Limits Version: V7.4

Date / Time: 02/05/2020 11:16:19 AM

Operator: Vertical Labs

Headroom 4.5 dB (RL 4,5)

Cable Type: Cat 6A F/UTP

NVP: 74.0%

Main: Versiv

S/N: 2766289

Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000 (DSX-CHA004)

S/N: 2791424

Test Summary: PASS

Remote: Versiv

S/N: 2766352

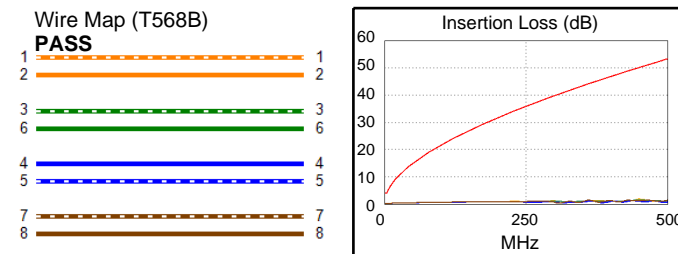
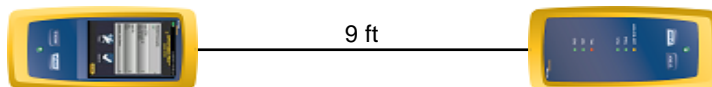
Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000R (DSX-CHA004)

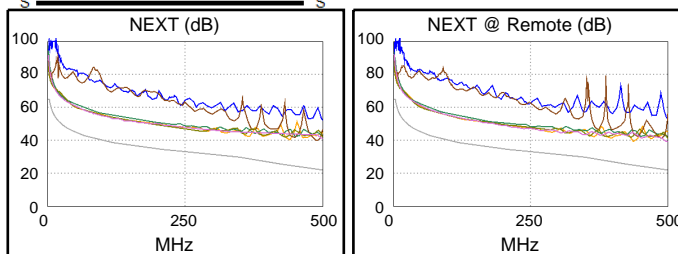
S/N: 2791443

Length (ft), Limit 328	[Pair 4,5]	9
Prop. Delay (ns), Limit 555	[Pair 1,2]	13
Delay Skew (ns), Limit 50	[Pair 1,2]	1
Resistance (ohms), Limit 25.00	[Pair 1,2]	0.85
Insertion Loss Margin (dB)	[Pair 1,2]	48.7
Frequency (MHz)	[Pair 1,2]	454.0
Limit (dB)	[Pair 1,2]	50.5

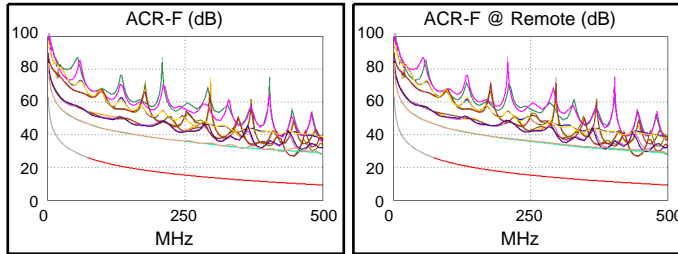


Worst Case Margin Worst Case Value

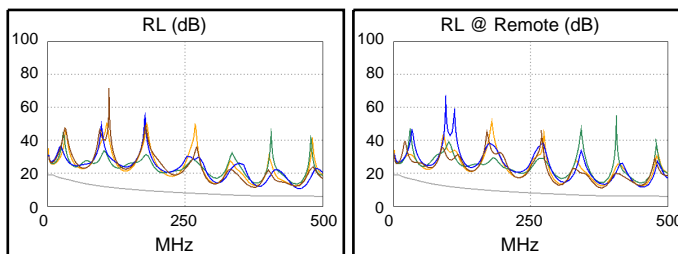
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-4,5	4,5-7,8
NEXT (dB)	13.1	12.9	17.6	17.1
Freq. (MHz)	364.0	320.0	490.0	500.0
Limit (dB)	28.9	31.3	22.4	22.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	13.1	13.0	14.4	13.8
Freq. (MHz)	3.4	359.0	439.0	439.0
Limit (dB)	61.7	26.5	22.8	22.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.5	16.4	16.5	16.4
Freq. (MHz)	443.0	444.0	443.0	444.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	18.2	18.3	18.2	18.3
Freq. (MHz)	443.0	443.0	443.0	443.0
Limit (dB)	7.3	7.3	7.3	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	7,8
RL (dB)	4.5	4.8	4.5	4.8
Freq. (MHz)	458.0	381.0	458.0	381.0
Limit (dB)	6.0	6.2	6.0	6.2



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



Cable ID: 1-1R -100C CYCLE 5

Test Limit: 10GBASE-T

Limits Version: V7.4

Date / Time: 02/05/2020 11:21:22 AM

Operator: Vertical Labs

Headroom 4.5 dB (RL 4,5)

Cable Type: Cat 6A F/UTP

NVP: 74.0%

Main: Versiv

S/N: 2766289

Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000 (DSX-CHA004)

S/N: 2791424

Test Summary: PASS

Remote: Versiv

S/N: 2766352

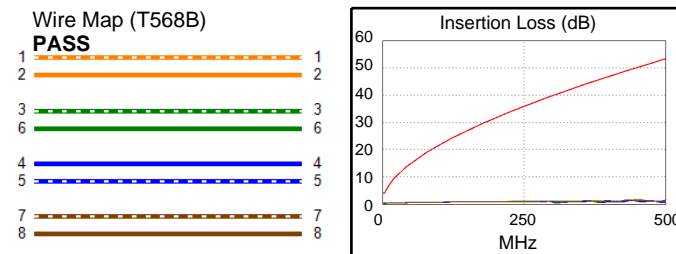
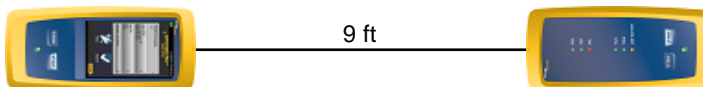
Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000R (DSX-CHA004)

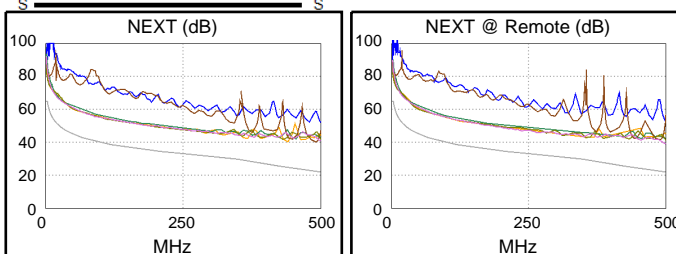
S/N: 2791443

Length (ft), Limit 328	[Pair 4,5]	9
Prop. Delay (ns), Limit 555	[Pair 7,8]	13
Delay Skew (ns), Limit 50	[Pair 1,2]	1
Resistance (ohms), Limit 25.00	[Pair 1,2]	0.81
Insertion Loss Margin (dB)	[Pair 1,2]	48.7
Frequency (MHz)	[Pair 1,2]	454.0
Limit (dB)	[Pair 1,2]	50.5

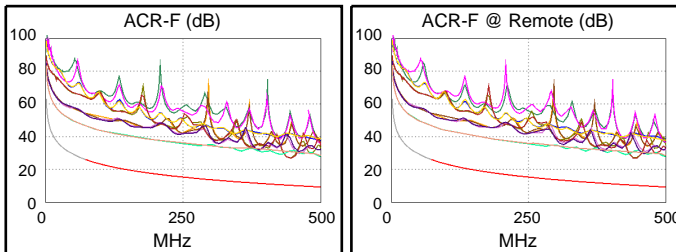


Worst Case Margin Worst Case Value

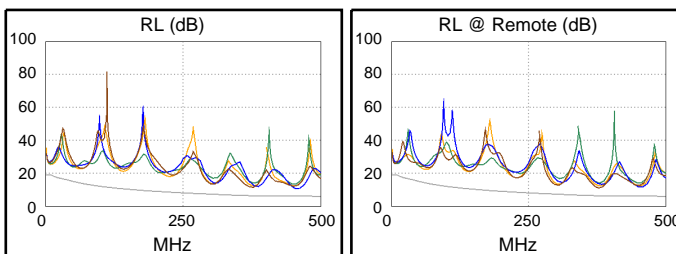
N/A	MAIN	SR	MAIN	SR
Worst Pair	3,6-7,8	3,6-7,8	3,6-4,5	4,5-7,8
NEXT (dB)	13.0	12.8	17.5	17.1
Freq. (MHz)	282.0	315.0	487.0	499.0
Limit (dB)	32.2	31.4	22.5	22.0
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	13.1	13.0	14.6	13.8
Freq. (MHz)	3.4	359.0	441.0	438.0
Limit (dB)	61.7	26.5	22.7	22.8



PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	16.5	16.4	16.5	16.4
Freq. (MHz)	443.0	445.0	443.0	445.0
Limit (dB)	10.3	10.3	10.3	10.3
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	18.2	18.2	18.2	18.3
Freq. (MHz)	443.0	441.0	443.0	443.0
Limit (dB)	7.3	7.4	7.3	7.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	7,8
RL (dB)	4.5	4.8	4.5	4.8
Freq. (MHz)	458.0	380.0	458.0	380.0
Limit (dB)	6.0	6.2	6.0	6.2



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



Cable ID: +175°C - THERMAL SHOCK - LAST HOT CYCLE - 001

Test Summary: PASS

Test Limit: 10GBASE-T

Limits Version: V7.4

Date / Time: 05/13/2020 03:07:37 PM

Operator: Vertical Labs

Headroom 6.1 dB (RL 4,5)

Cable Type: Cat 6A F/UTP

NVP: 74.0%

Main: Versiv

S/N: 2766289

Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000 (DSX-CHA004)

S/N: 2791443

Remote: Versiv

S/N: 2766352

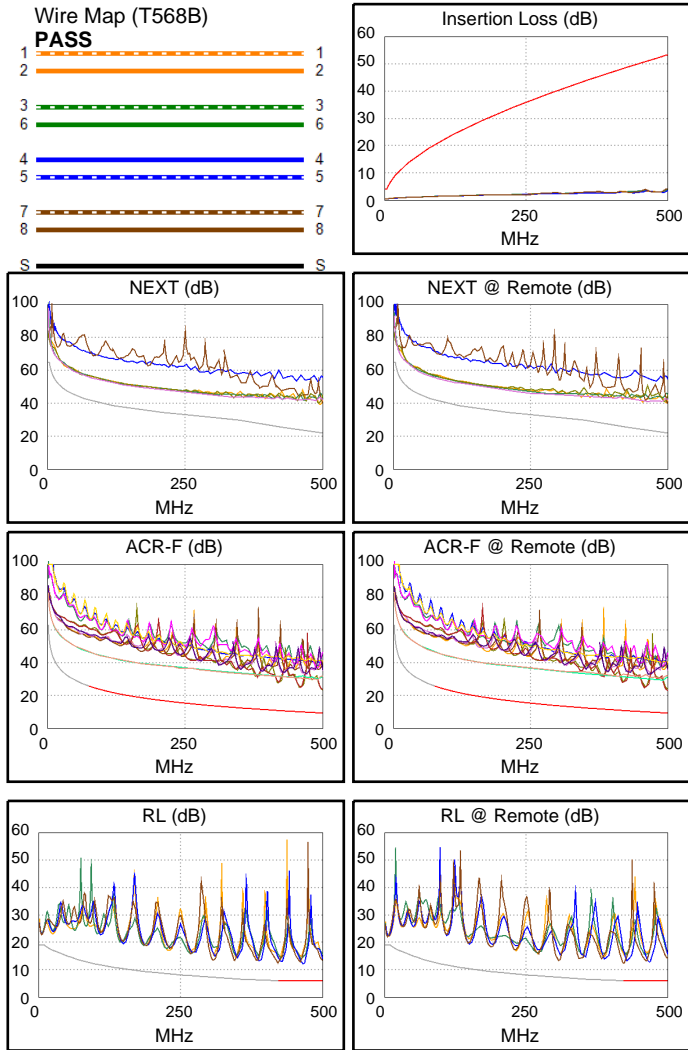
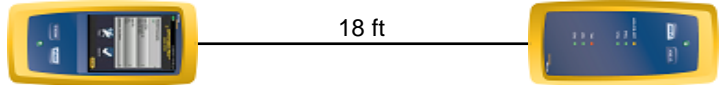
Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000R (DSX-CHA004)

S/N: 2791424

Length (ft), Limit 328	[Pair 3,6]	18
Prop. Delay (ns), Limit 555	[Pair 7,8]	26
Delay Skew (ns), Limit 50	[Pair 1,2]	1
Resistance (ohms), Limit 25.00	[Pair 1,2]	1.67
Insertion Loss Margin (dB)	[Pair 7,8]	49.4
Frequency (MHz)	[Pair 7,8]	500.0
Limit (dB)	[Pair 7,8]	53.4



Worst Case Margin Worst Case Value

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-7,8	4,5-7,8	1,2-3,6	3,6-4,5
NEXT (dB)	19.8	19.9	17.1	17.7
Freq. (MHz)	500.0	500.0	495.0	500.0
Limit (dB)	22.0	22.0	22.2	22.0
Worst Pair	7,8	7,8	3,6	3,6
PS NEXT (dB)	19.4	19.2	15.8	16.1
Freq. (MHz)	498.0	498.0	496.0	498.0
Limit (dB)	20.5	20.5	20.6	20.5

PASS	MAIN	SR	MAIN	SR
Worst Pair	3,6-4,5	4,5-3,6	3,6-4,5	4,5-3,6
ACR-F (dB)	14.1	13.9	14.1	13.9
Freq. (MHz)	500.0	499.0	500.0	499.0
Limit (dB)	9.3	9.3	9.3	9.3
Worst Pair	4,5	3,6	4,5	3,6
PS ACR-F (dB)	16.5	16.6	16.5	16.6
Freq. (MHz)	500.0	499.0	500.0	499.0
Limit (dB)	6.3	6.3	6.3	6.3

PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	7,8	4,5	7,8
RL (dB)	6.1	6.3	6.1	6.3
Freq. (MHz)	466.0	425.0	466.0	425.0
Limit (dB)	6.0	6.0	6.0	6.0

Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 2.5GBASE-T 5GBASE-T
 10GBASE-T ATM-25 ATM-51
 ATM-155 100VG-AnyLan TR-4
 TR-16 Active TR-16 Passive



Cable ID: +175°C - THERMAL SHOCK - LAST HOT CYCLE - 002

Test Summary: PASS

Test Limit: 10GBASE-T

Limits Version: V7.4

Date / Time: 05/13/2020 03:08:21 PM

Operator: Vertical Labs

Headroom 6.8 dB (RL 4,5)

Cable Type: Cat 6A F/UTP

NVP: 74.0%

Main: Versiv

S/N: 2766289

Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000 (DSX-CHA004)

S/N: 2791443

Remote: Versiv

S/N: 2766352

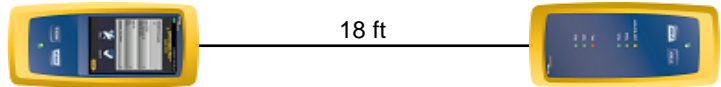
Software Version: V6.4 Build 4

Calibration Date: 09/23/2019

Adapter: DSX-5000R (DSX-CHA004)

S/N: 2791424

Length (ft), Limit 328	[Pair 4,5]	18
Prop. Delay (ns), Limit 555	[Pair 7,8]	26
Delay Skew (ns), Limit 50	[Pair 1,2]	1
Resistance (ohms), Limit 25.00	[Pair 1,2]	1.67
Insertion Loss Margin (dB)	[Pair 1,2]	49.5
Frequency (MHz)	[Pair 1,2]	498.0
Limit (dB)	[Pair 1,2]	53.3

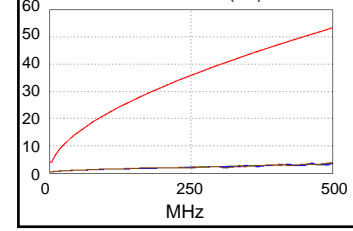


Wire Map (T568B)

PASS

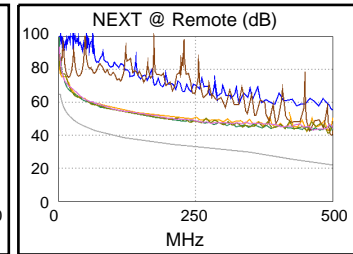
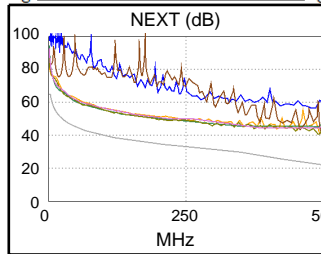


Insertion Loss (dB)

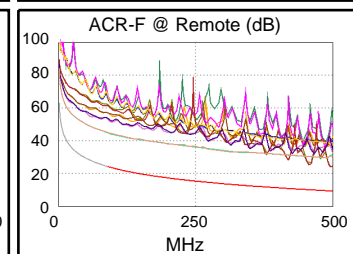
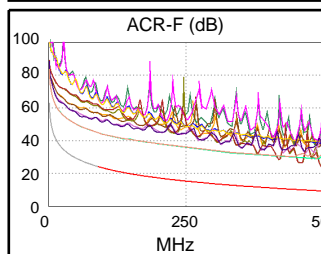


Worst Case Margin Worst Case Value

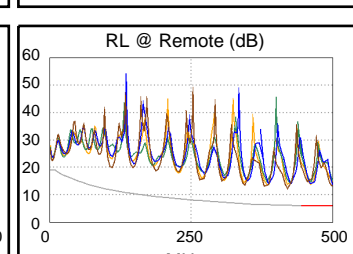
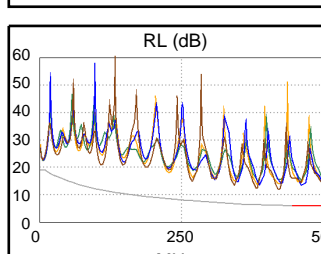
N/A	MAIN	SR	MAIN	SR
Worst Pair	1,2-3,6	1,2-3,6	3,6-4,5	3,6-4,5
NEXT (dB)	13.3	12.6	18.2	18.0
Freq. (MHz)	3.1	3.0	497.0	497.0
Limit (dB)	64.8	65.0	22.1	22.1
Worst Pair	3,6	3,6	3,6	3,6
PS NEXT (dB)	12.6	13.0	16.6	16.9
Freq. (MHz)	3.3	3.3	495.0	495.0
Limit (dB)	62.0	62.0	20.6	20.6



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5-3,6	4,5-3,6	4,5-3,6	4,5-3,6
ACR-F (dB)	14.7	14.7	14.7	14.7
Freq. (MHz)	497.0	497.0	497.0	497.0
Limit (dB)	9.3	9.3	9.3	9.3
Worst Pair	4,5	4,5	4,5	4,5
PS ACR-F (dB)	17.0	16.9	17.0	16.9
Freq. (MHz)	498.0	499.0	498.0	499.0
Limit (dB)	6.3	6.3	6.3	6.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	4,5	1,2	4,5	1,2
RL (dB)	6.8	7.2	6.8	7.2
Freq. (MHz)	464.0	423.0	464.0	423.0
Limit (dB)	6.0	6.0	6.0	6.0



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
10GBASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	



TEST REPORT
Glenair El Ochito Performance at
Temperature

No.: GT-22-026
Date: February 7, 2022
Revision: A
Sheet 8 of 16

APPENDIX B

Total Phase Advanced Cable Tester
El Ochito Blue USB 3.0 Performance Checks

Test Report Details

Viewing: reports (4).json
Test Report 15 of 15

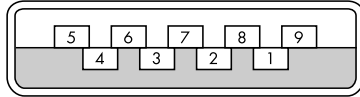
Please note that any test reports opened in this viewer are not saved on this Advanced Cable Tester.

TIME	8/26/2020, 16:20:43 PDT
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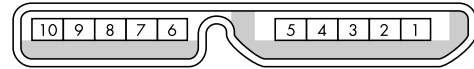
SERIAL NUMBER	202_LowTemp_
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PASS

TEST PROFILE	USB 3.0 Plug-A to Micro-B Common Ground
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Plug 1 : USB Standard-A



Plug 2 : USB Micro-B

Results

Continuity

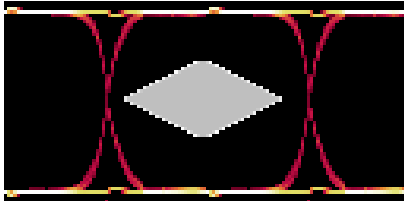
Status	Wire	Plug 1	Expected Plug 1	Plug 2	Expected Plug 2
✓	DN	2	2	2	2
✓	DP	3	3	3	3
✓	GND	4	4	5	5
✓	GND_DRAIN, SHIELD	7, SHELL	7, SHELL	8, SHELL	8, SHELL
✓	ID			4	4
✓	RX_N, TX_N	5	5	6	6
✓	RX_P, TX_P	6	6	7	7
✓	TX_N, RX_N	8	8	9	9
✓	TX_P, RX_P	9	9	10	10
✓	VBUS	1	1	1	1

DC Resistance

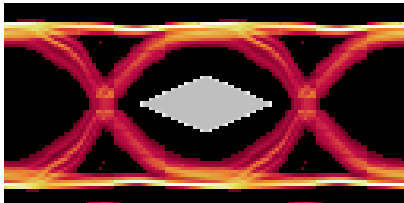
Status	Group	Label	Sources	Sinks	Expected Min (Ω)	Expected Max (Ω)	Measured (Ω)
✓	Wires	GND	Plug 1: 4	Plug 2: 5	0.000	0.350	0.316
✓	Wires	VBUS	Plug 1: 1	Plug 2: 1	0.000	0.350	0.328
✓	Wires	SHIELD	Plug 1: SHELL	Plug 2: SHELL	0.000	15.000	0.102
✓	Wires	GND_DRAIN	Plug 1: 7	Plug 2: 8	0.000	15.000	0.079

Signal Integrity

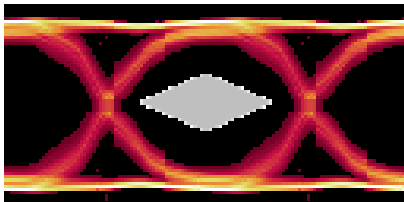
DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">1,041.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">0.00</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 3, 2</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 3, 2</div>

	Expected	Measured	
✓ HEO	77%	94%	
✓ VEO	41%	90%	

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 9, 8</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 10, 9</div>

	Expected	Measured	
✓ HEO	65%	79%	
✓ VEO	33%	65%	

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 7, 6</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 6, 5</div>

	Expected	Measured	
✓ HEO	65%	83%	
✓ VEO	33%	68%	

Equipment

ADVANCED CABLE TESTER INFORMATION	
Firmware Version:	2.4.0
Hardware Version:	2.0.3
Serial Number:	2870-380447

MODULE INFORMATION	
Module Information:	ACT v2 Connector Module: USB 3.1 Standard-A to USB 3.1 Micro-B
Serial Number:	3072-173411

Test Report Details

Viewing: reports (4).json
Test Report 14 of 15

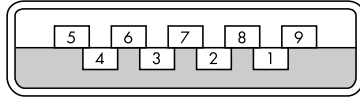
Please note that any test reports opened in this viewer are not saved on this Advanced Cable Tester.

TIME	8/26/2020, 17:44:37 PDT
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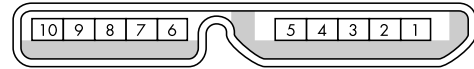
SERIAL NUMBER	202_HighTemp
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PASS

TEST PROFILE	USB 3.0 Plug-A to Micro-B Common Ground
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Plug 1 : USB Standard-A



Plug 2 : USB Micro-B

Results

Continuity

Status	Wire	Plug 1	Expected Plug 1	Plug 2	Expected Plug 2
✓	DN	2	2	2	2
✓	DP	3	3	3	3
✓	GND	4	4	5	5
✓	GND_DRAIN, SHIELD	7, SHELL	7, SHELL	8, SHELL	8, SHELL
✓	ID			4	4
✓	RX_N, TX_N	5	5	6	6
✓	RX_P, TX_P	6	6	7	7
✓	TX_N, RX_N	8	8	9	9
✓	TX_P, RX_P	9	9	10	10
✓	VBUS	1	1	1	1

DC Resistance

Status	Group	Label	Sources	Sinks	Expected Min (Ω)	Expected Max (Ω)	Measured (Ω)
✓	Wires	GND	Plug 1: 4	Plug 2: 5	0.000	0.350	0.316
✓	Wires	VBUS	Plug 1: 1	Plug 2: 1	0.000	0.350	0.328
✓	Wires	SHIELD	Plug 1: SHELL	Plug 2: SHELL	0.000	15.000	0.102
✓	Wires	GND_DRAIN	Plug 1: 7	Plug 2: 8	0.000	15.000	0.079

Signal Integrity

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">1,041.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">0.00</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 3, 2</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 3, 2</div>

	Expected	Measured
✓ HEO	77%	94%
✓ VEO	41%	90%

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 9, 8</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 10, 9</div>

	Expected	Measured
✓ HEO	65%	79%
✓ VEO	33%	65%

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 7, 6</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 6, 5</div>

	Expected	Measured
✓ HEO	65%	83%
✓ VEO	33%	68%

Equipment

ADVANCED CABLE TESTER INFORMATION	
Firmware Version:	2.4.0
Hardware Version:	2.0.3
Serial Number:	2870-380447

MODULE INFORMATION	
Module Information:	ACT v2 Connector Module: USB 3.1 Standard-A to USB 3.1 Micro-B
Serial Number:	3072-173411

Test Report Details

Viewing: reports (4).json
Test Report 10 of 15

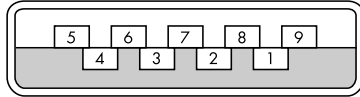
Please note that any test reports opened in this viewer are not saved on this Advanced Cable Tester.

TIME	9/25/2020, 16:26:00 PDT
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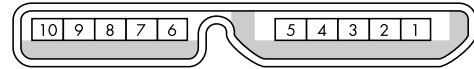
SERIAL NUMBER	203 cold
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PASS

TEST PROFILE	USB 3.0 Plug-A to Micro-B Common Ground
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Plug 1 : USB Standard-A



Plug 2 : USB Micro-B

Results

Continuity

Status	Wire	Plug 1	Expected Plug 1	Plug 2	Expected Plug 2
✓	DN	2	2	2	2
✓	DP	3	3	3	3
✓	GND	4	4	5	5
✓	GND_DRAIN, SHIELD	7, SHELL	7, SHELL	8, SHELL	8, SHELL
✓	ID			4	4
✓	RX_N, TX_N	5	5	6	6
✓	RX_P, TX_P	6	6	7	7
✓	TX_N, RX_N	8	8	9	9
✓	TX_P, RX_P	9	9	10	10
✓	VBUS	1	1	1	1

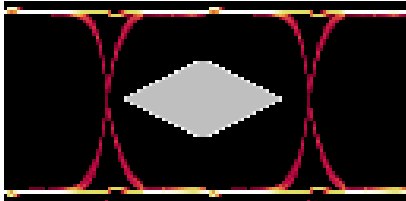
DC Resistance

Status	Group	Label	Sources	Sinks	Expected Min (Ω)	Expected Max (Ω)	Measured (Ω)
✓	Wires	GND	Plug 1: 4	Plug 2: 5	0.000	0.350	0.316
✓	Wires	VBUS	Plug 1: 1	Plug 2: 1	0.000	0.350	0.328
✓	Wires	SHIELD	Plug 1: SHELL	Plug 2: SHELL	0.000	15.000	0.102
✓	Wires	GND_DRAIN	Plug 1: 7	Plug 2: 8	0.000	15.000	0.079

Signal Integrity

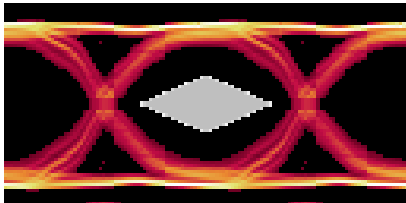
DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">1,041.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">0.00</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 3, 2</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 3, 2</div>

	Expected	Measured
✓ HEO	77%	94%
✓ VEO	41%	90%



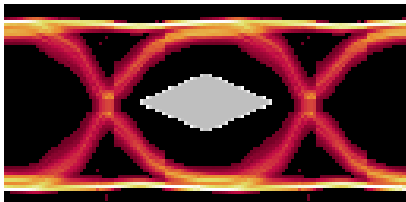
DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 9, 8</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 10, 9</div>

	Expected	Measured
✓ HEO	65%	79%
✓ VEO	33%	65%



DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 7, 6</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 6, 5</div>

	Expected	Measured
✓ HEO	65%	83%
✓ VEO	33%	68%



Equipment

ADVANCED CABLE TESTER INFORMATION	
Firmware Version:	2.4.0
Hardware Version:	2.0.3
Serial Number:	2870-380447

MODULE INFORMATION	
Module Information:	ACT v2 Connector Module: USB 3.1 Standard-A to USB 3.1 Micro-B
Serial Number:	3072-173411

Test Report Details

Viewing: reports (4).json
Test Report 9 of 15

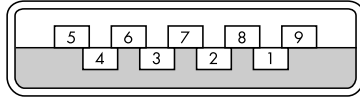
Please note that any test reports opened in this viewer are not saved on this Advanced Cable Tester.

TIME	9/25/2020, 16:56:27 PDT
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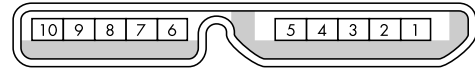
SERIAL NUMBER	203 HOT
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PASS

TEST PROFILE	USB 3.0 Plug-A to Micro-B Common Ground
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Plug 1 : USB Standard-A



Plug 2 : USB Micro-B

Results

Continuity

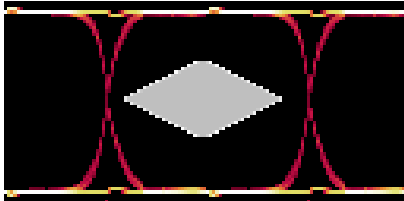
Status	Wire	Plug 1	Expected Plug 1	Plug 2	Expected Plug 2
✓	DN	2	2	2	2
✓	DP	3	3	3	3
✓	GND	4	4	5	5
✓	GND_DRAIN, SHIELD	7, SHELL	7, SHELL	8, SHELL	8, SHELL
✓	ID			4	4
✓	RX_N, TX_N	5	5	6	6
✓	RX_P, TX_P	6	6	7	7
✓	TX_N, RX_N	8	8	9	9
✓	TX_P, RX_P	9	9	10	10
✓	VBUS	1	1	1	1

DC Resistance

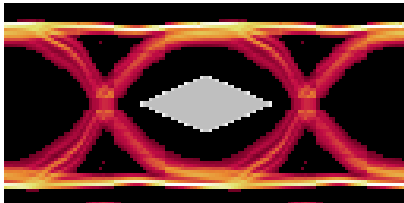
Status	Group	Label	Sources	Sinks	Expected Min (Ω)	Expected Max (Ω)	Measured (Ω)
✓	Wires	GND	Plug 1: 4	Plug 2: 5	0.000	0.350	0.316
✓	Wires	VBUS	Plug 1: 1	Plug 2: 1	0.000	0.350	0.328
✓	Wires	SHIELD	Plug 1: SHELL	Plug 2: SHELL	0.000	15.000	0.102
✓	Wires	GND_DRAIN	Plug 1: 7	Plug 2: 8	0.000	15.000	0.079

Signal Integrity

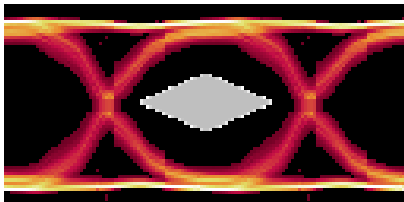
DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">1,041.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">0.00</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 3, 2</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 3, 2</div>

	Expected	Measured	
✓ HEO	77%	94%	
✓ VEO	41%	90%	

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 9, 8</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 10, 9</div>

	Expected	Measured	
✓ HEO	65%	79%	
✓ VEO	33%	65%	

DATA RATE (MBIT/S) <div style="text-align: right; font-weight: bold;">5,035.00</div>	DE-EMPHASIS (DB) <div style="text-align: right; font-weight: bold;">-3.50</div>
TRANSMIT PAIR <div style="text-align: center; font-weight: bold;">Plug 2: 7, 6</div>	RECEIVE PAIR <div style="text-align: center; font-weight: bold;">Plug 1: 6, 5</div>

	Expected	Measured	
✓ HEO	65%	83%	
✓ VEO	33%	68%	

Equipment

ADVANCED CABLE TESTER INFORMATION		
Firmware Version:	2.4.0	
Hardware Version:	2.0.3	
Serial Number:	2870-380447	

MODULE INFORMATION		
Module Information:	ACT v2 Connector Module: USB 3.1 Standard-A to USB 3.1 Micro-B	
Serial Number:	3072-173411	