GT-14-48

SuperSeal D38999 Series RJ45

233-301 Series, Low Temp CAT5e to Crimp Contacts

Performance Test Report

233-301M07G195LN3
(Receptacle)

257-300MG6-195LN3
(Plug)

Glenair, Inc.
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Glendale, CA 91201-2497 USA

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Revision: A

Revision History

Rev	Date	Approved	Description
A	7/08/2014	T.Yohannes	Initial Release

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PURPOSE

The purpose of the test was to perform environmental and mechanical evaluation of Super Seal D38999 Series, RJ45 to Crimp Contacts connector, 233-301 Series, Low Temp version. Three sample connectors (S1, S2, S3) were used to perform the test. Sample connectors were subjected to thermal shock and durability tests, electrical performance tests including DWV & IR and Ethernet compliance test both before & after the thermal & durability tests.

TEST SAMPLE CONNECTORS

Three mated sample connectors, S1, S2 & S3, were used to perform the tests

233-301M07G195LN3: Receptacle, Super Seal D38999 Series III, Shell size 19 with Low temp RJ45 Jack to to Size 22 Crimp Pin contacts.

257-300MG6-195lN3: Plug, D38999 Series III, Shell Size 19, with RJ45 Coupler, Low Temp Version.

Test Cables:

RJ45 patch cord, 10 ft long on each side.

TEST EQUIPMENT

Thermal Shock: Temney Thermal Shock Equipment
Thermal Product Solutions
Calibration Due date: 03/11/2015

Ethernet Compliance Test: LanTEK II Cable Certifier
IDEAL INDUSTRIES, INC.
Calibration Due Date: 10/14/14

DWV & IR: QuadTech Guardian 1030s AC/DC/IR Hi Pot Tester
Calibration Due Date: 02/24/15

TEST PARAMETERS

Visual, Mechanical & Workmanship Exam

Connectors and contacts shall be visually and mechanically examined to ensure conformance with Glenair sales drawings and associated specs.

Specification: The individual item requirements shall be specified herein and in accordance with MIL-DTL-38999/24 & /26 and Glenair Sales.

Materials: Materials shall be in accordance with Glenair Sales drawings.

Configuration Interface and Features: Connectors and contacts shall be Configured to withstand normal handling incident to installation and maintenance in service.

Marking Requirements: Marking shall be verified per Glenair sales drawings. At minimum, marking shall include cage code, part number and lot date code.

Inspection: Connectors and contacts shall be inspected for cracks, dents, Discontinuities or scratches that may impair the function of the connector, Specifically connector and contact defects.

Thermal Shock

The connectors shall be tested in the mated condition in accordance with MIL-DTL-D8999 paragraphs 3.9, 4.5.4, and EIA-364-32, Test Condition A, with the following exceptions:

a) Temperature for step 1 shall be -20℃ +0/-5℃
b) Temperature for step 3 shall be +85℃ +5/-0℃
c) Steps 2 & 4 shall be 2 minutes maximum in duration.

Durability

The assembly shall be fully mated and unmated with assembled, wired counterparts a total of 300 cycles. No mechanical damage allowed.

Vibration

Per EIA-364-28, Test Condition V, letter E with exception:
20g (196 m/s^2), 10-2000 Hz, 4 hrs on each axis (X, Y & Z) for a total of 12 hrs.

Mechanical Shock

Per EIA-364-27 following details apply:

a) Pulse shall be an approximate half sine wave of 300 G ± 15% magnitude with duration of 3±1 milliseconds.

b) Wire bundle shall be clamped to fixed points @ least 8 inches from the rear of the connector.

ETHERNET COMPLIANCE TEST : RJ45 connector performance to be verified using Lantek II Series Cable Certifier per TIA standard for Category 5e for the following characteristics: (Setup for Channel Link Test)
Insertion Loss, Return Loss, Impedance, Crosstalk (Next & Power Sum Next), ACR-N, Wiremap & Resistance.

DIELECTRIC WITHSTANDING VOLTAGE (DWV) : The dielectric withstanding voltage shall be tested in accordance with IEC 60512-4-1, Test 4a, Method C, test voltage of 1000 VDC, with exception that test voltage shall be applied for 2 sec. The leakage current between adjacent contacts shall not be greater than 2 mA and there shall be no evidence of arcing, material breakdown, or any evidence of damage. Test can be performed in mated or unmated conditions.

INSULATION RESISTANCE (IR) : The insulation resistance shall be measured in accordance with IEC 60512-3-1, Test 3a, Method C, test voltage 500 VDC, with exception that test voltage shall be applied for 2 sec. The insulation resistance between adjacent contacts shall be at least 500 MΩ. Test can be performed in mated or unmated conditions.

TEST SETUP

Test samples (S1, S2, S3) are shown on Figure 1. Test setup for thermal shock, Ethernet compliance test and DWV/IR are shown on figures 2, 3 & 4, respectively.

Figure 1. Test Samples S1, S2 & S3.

Figure 2. Thermal Shock Test

Figure 3. Ethernet Compliance Test

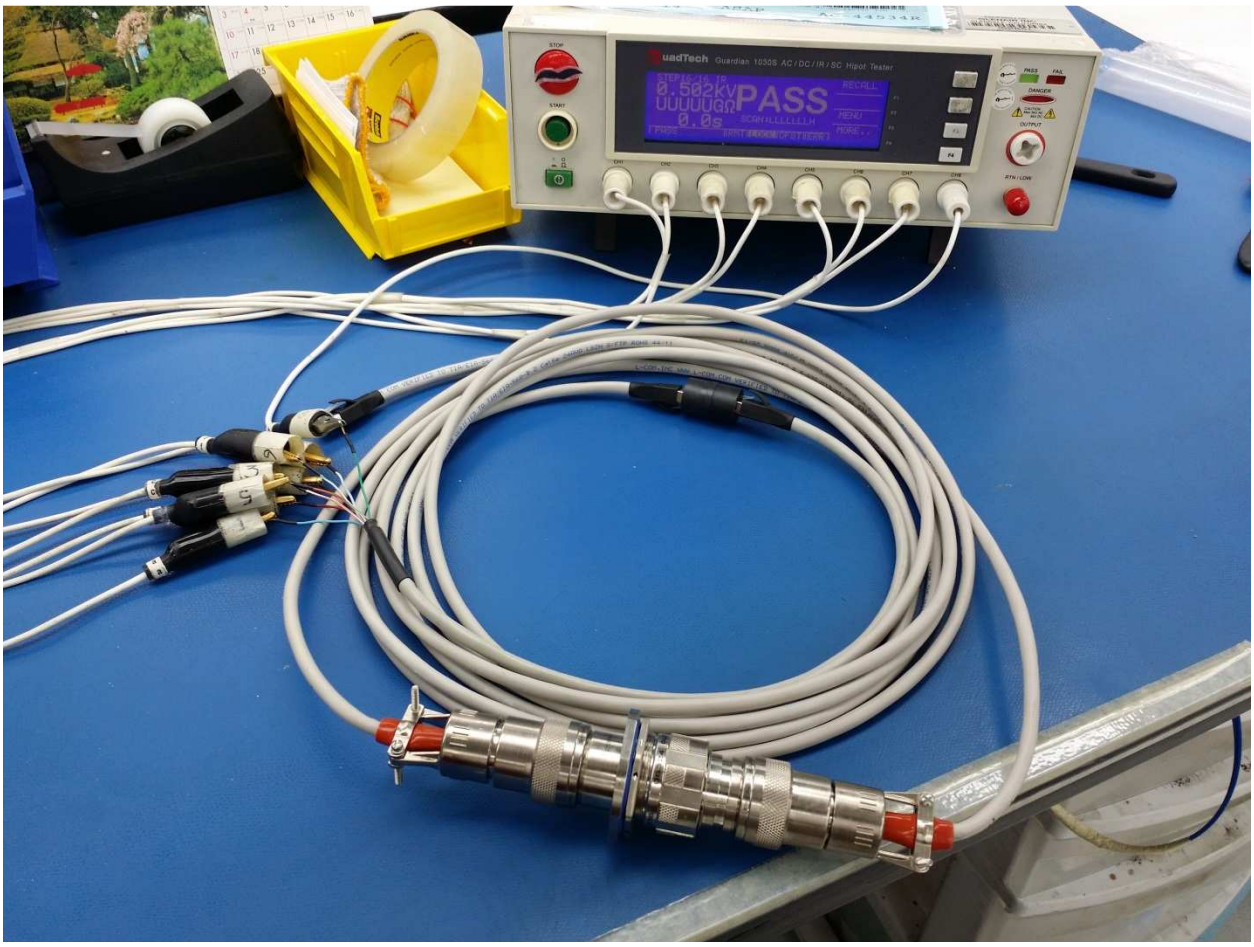

Figure 4. Dielectric Withstanding Voltage & Insulation Resistance Tests

TEST RESULTS

Visual, Mechanical & Workmanship Exam

Sample connectors passed visual & mechanical exams.

Thermal Shock & Durability

All Sample connectors passed both thermal shock & durability tests. Sample connectors passed Ethernet Compliance ,DWV & IR tests performed both before & after each tests. Ethernet Compliance test results for both thermal & durability tests is shown on pages 12 thru 45.

Vibration

Connectors meet vibration requirements by similarity per Glenair Test Report **GT-14-30 & GT-14-38** for RJ45 Series 300 Low Temp Qualification Test.

Mechanical Shock

Connectors meet mechanical shock requirements by similarity per Glenair Test Report **GT-14-30** for RJ45 Series 300 Low Temp Qualification Test.

Conclusion

Glenair Super Seal part number 233-301M07G195LN3 meets thermal shock & durability tests as well as Ethernet compliance and DWV & IR tests as specified in this document. Connector also meets vibration and mechanical shock requirements by similarity per Glenair Test Report **GT-14-30 & GT-14-38** for RJ45 Series 300 Low Temp Qualification Test.

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IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:45 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.3ft	Tot. Length: 20.3ft	Tot. Length: 0ft	Tot. Length: 0ft

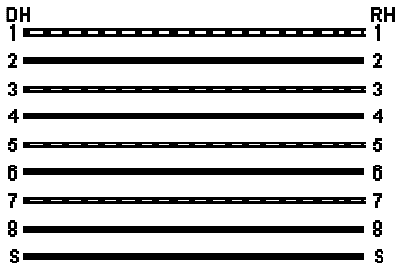
Pass

Test Name: S1 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:48:23
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

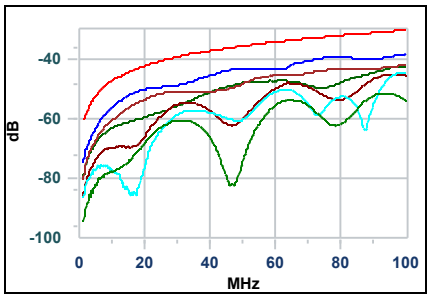


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.3 ft.	21.7 ft.	21.7 ft.	20.3 ft.	< 328.1 ft.	
Propagation Delay	28.8 ns	30.4 ns	30.6 ns	28.6 ns	< 555.0 ns	
Delay Skew	0.2 ns	1.8 ns	2.0 ns	0.0 ns	< 50.0 ns	
Headroom	60.8 dB					

NEXT: Pass

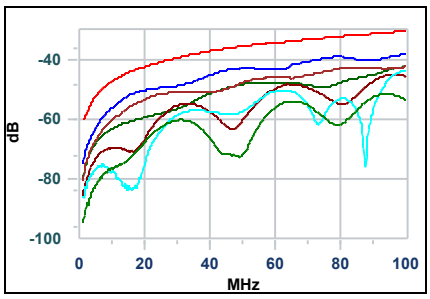
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	51.5dB @ 24.0MHz	40.7dB	10.8dB	41.5dB @ 100.0MHz	30.1dB	11.4dB
7,8-5,4	53.6dB @ 63.3MHz	33.5dB	20.1dB	51.1dB @ 94.5MHz	30.5dB	20.6dB
7,8-1,2	44.1dB @ 98.3MHz	30.2dB	13.9dB	44.0dB @ 99.8MHz	30.1dB	13.9dB
3,6-5,4	39.1dB @ 75.8MHz	32.2dB	6.9dB	38.1dB @ 100.0MHz	30.1dB	8.0dB
3,6-1,2	44.7dB @ 94.8MHz	30.5dB	14.2dB	44.6dB @ 97.0MHz	30.3dB	14.3dB
5,4-1,2	42.3dB @ 97.0MHz	30.3dB	12.0dB	42.2dB @ 100.0MHz	30.1dB	12.1dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	42.5dB @ 81.0MHz	31.7dB	10.8dB	41.8dB @ 100.0MHz	30.1dB	11.7dB
7,8-5,4	53.7dB @ 63.5MHz	33.5dB	20.2dB	51.3dB @ 95.0MHz	30.5dB	20.8dB
7,8-1,2	43.8dB @ 98.8MHz	30.2dB	13.6dB	43.8dB @ 100.0MHz	30.1dB	13.7dB
3,6-5,4	38.7dB @ 77.8MHz	32.0dB	6.7dB	37.8dB @ 100.0MHz	30.1dB	7.7dB
3,6-1,2	47.7dB @ 63.5MHz	33.5dB	14.2dB	44.7dB @ 97.3MHz	30.3dB	14.4dB
5,4-1,2	42.0dB @ 98.5MHz	30.2dB	11.8dB	41.9dB @ 100.0MHz	30.1dB	11.8dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:45 AM
Version: 1.3.2

Pass

Test Name: S1 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

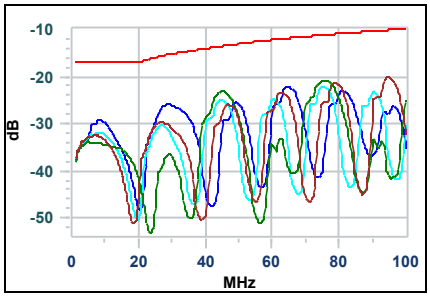
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:48:23
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

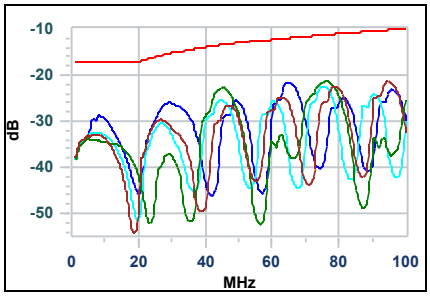
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	20.2dB @ 94.3MHz	10.3dB	9.9dB	20.2dB @ 94.8MHz	10.2dB	10.0dB
3,6	✓	23.1dB @ 45.0MHz	13.5dB	9.6dB	20.9dB @ 76.5MHz	11.2dB	9.7dB
5,4	✓	22.1dB @ 74.8MHz	11.3dB	10.8dB	22.1dB @ 75.3MHz	11.2dB	10.9dB
1,2	✓	25.9dB @ 28.5MHz	15.5dB	10.4dB	22.3dB @ 65.0MHz	11.9dB	10.4dB



RH

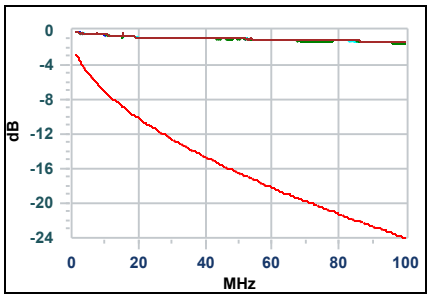
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	21.3dB @ 94.3MHz	10.3dB	11.0dB	21.3dB @ 94.5MHz	10.3dB	11.0dB
3,6	✓	22.7dB @ 45.3MHz	13.5dB	9.2dB	21.4dB @ 76.8MHz	11.2dB	10.2dB
5,4	✓	22.3dB @ 75.0MHz	11.3dB	11.0dB	22.3dB @ 75.0MHz	11.3dB	11.0dB
1,2	✓	21.7dB @ 64.3MHz	11.9dB	9.8dB	21.7dB @ 65.3MHz	11.9dB	9.8dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB
3,6	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB



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Version: 1.3.2

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MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

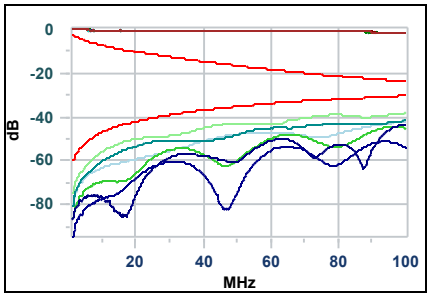
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:48:23
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

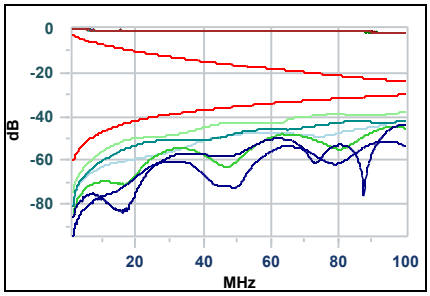
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	70.5dB @ 3.1MHz	51.4dB	19.1dB	39.9dB @ 99.5MHz	6.2dB	33.7dB
7,8-5,4	60.1dB @ 27.6MHz	27.6dB	32.5dB	49.7dB @ 93.3MHz	7.5dB	42.2dB
7,8-1,2	81.1dB @ 2.2MHz	54.5dB	26.6dB	42.6dB @ 99.3MHz	6.2dB	36.4dB
3,6-5,4	68.3dB @ 2.5MHz	53.4dB	14.9dB	36.5dB @ 99.8MHz	6.1dB	30.4dB
3,6-1,2	76.5dB @ 3.3MHz	51.0dB	25.5dB	43.1dB @ 96.0MHz	6.9dB	36.2dB
5,4-1,2	73.0dB @ 2.5MHz	53.4dB	19.6dB	40.7dB @ 98.3MHz	6.4dB	34.3dB



RH

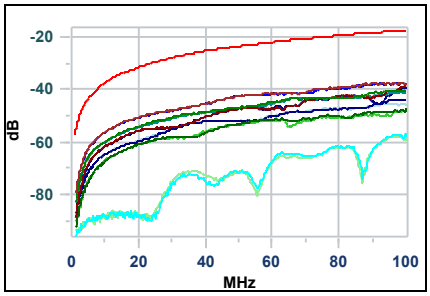
Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	72.4dB @ 2.5MHz	53.4dB	19.0dB	40.2dB @ 100.0MHz	6.1dB	34.1dB
7,8-5,4	60.2dB @ 27.1MHz	27.9dB	32.3dB	49.9dB @ 93.3MHz	7.5dB	42.4dB
7,8-1,2	80.3dB @ 2.5MHz	53.4dB	26.9dB	42.4dB @ 98.8MHz	6.4dB	36.0dB
3,6-5,4	71.0dB @ 1.8MHz	56.4dB	14.6dB	36.2dB @ 99.8MHz	6.1dB	30.1dB
3,6-1,2	75.7dB @ 3.3MHz	51.0dB	24.7dB	43.2dB @ 96.0MHz	6.9dB	36.3dB
5,4-1,2	72.4dB @ 2.5MHz	53.4dB	19.0dB	40.4dB @ 99.3MHz	6.2dB	34.2dB



ACR-F: Pass

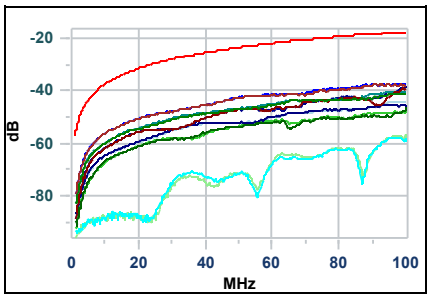
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	61.9dB @ 5.1MHz	43.3dB	18.6dB	37.4dB @ 96.8MHz	17.7dB	19.7dB
7,8-5,4	64.4dB @ 5.5MHz	42.6dB	21.8dB	40.3dB @ 96.8MHz	17.7dB	22.6dB
7,8-1,2	95.7dB @ 1.0MHz	57.4dB	38.3dB	56.8dB @ 99.8MHz	17.4dB	39.4dB
3,6-7,8	61.2dB @ 5.5MHz	42.6dB	18.6dB	37.5dB @ 99.3MHz	17.5dB	20.0dB
3,6-5,4	38.4dB @ 99.8MHz	17.4dB	21.0dB	38.4dB @ 99.8MHz	17.4dB	21.0dB
3,6-1,2	50.8dB @ 61.0MHz	21.7dB	29.1dB	47.3dB @ 100.0MHz	17.4dB	29.9dB
5,4-7,8	65.0dB @ 5.2MHz	43.1dB	21.9dB	40.7dB @ 98.5MHz	17.5dB	23.2dB
5,4-3,6	39.3dB @ 99.3MHz	17.5dB	21.8dB	39.2dB @ 99.8MHz	17.4dB	21.8dB
5,4-1,2	43.8dB @ 95.5MHz	17.8dB	26.0dB	43.7dB @ 97.0MHz	17.7dB	26.0dB
1,2-7,8	93.2dB @ 1.0MHz	57.4dB	35.8dB	57.8dB @ 97.3MHz	17.6dB	40.2dB
1,2-3,6	66.8dB @ 9.9MHz	37.5dB	29.3dB	46.8dB @ 100.0MHz	17.4dB	29.4dB
1,2-5,4	52.8dB @ 36.0MHz	26.3dB	26.5dB	45.3dB @ 99.8MHz	17.4dB	27.9dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	61.3dB @ 5.5MHz	42.6dB	18.7dB	37.7dB @ 99.3MHz	17.5dB	20.2dB
7,8-5,4	65.0dB @ 5.2MHz	43.1dB	21.9dB	40.8dB @ 98.5MHz	17.5dB	23.3dB
7,8-1,2	93.2dB @ 1.0MHz	57.4dB	35.8dB	57.9dB @ 97.3MHz	17.6dB	40.3dB
3,6-7,8	61.9dB @ 5.1MHz	43.3dB	18.6dB	37.3dB @ 97.0MHz	17.7dB	19.6dB
3,6-5,4	39.2dB @ 99.3MHz	17.5dB	21.7dB	39.1dB @ 99.8MHz	17.4dB	21.7dB
3,6-1,2	66.0dB @ 10.8MHz	36.8dB	29.2dB	46.6dB @ 100.0MHz	17.4dB	29.2dB
5,4-7,8	64.3dB @ 5.5MHz	42.6dB	21.7dB	40.3dB @ 97.5MHz	17.6dB	22.7dB
5,4-3,6	38.5dB @ 99.8MHz	17.4dB	21.1dB	38.5dB @ 99.8MHz	17.4dB	21.1dB
5,4-1,2	53.0dB @ 35.0MHz	26.5dB	26.5dB	45.2dB @ 99.8MHz	17.4dB	27.8dB
1,2-7,8	95.7dB @ 1.0MHz	57.4dB	38.3dB	56.8dB @ 99.8MHz	17.4dB	39.4dB
1,2-3,6	50.8dB @ 61.0MHz	21.7dB	29.1dB	47.5dB @ 100.0MHz	17.4dB	30.1dB
1,2-5,4	43.8dB @ 95.5MHz	17.8dB	26.0dB	43.7dB @ 97.0MHz	17.7dB	26.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:45 AM
Version: 1.3.2

Pass

Test Name: S1 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

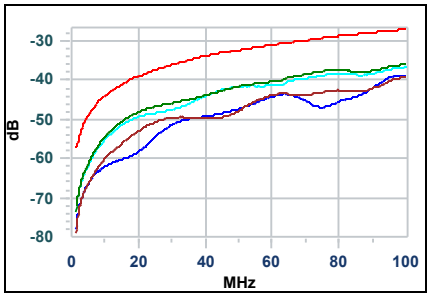
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:48:23
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

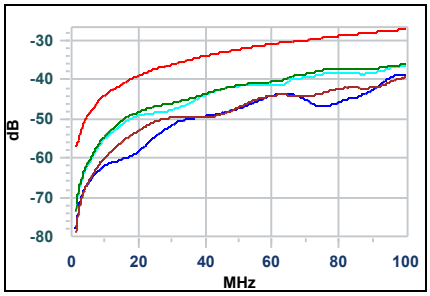
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	39.3dB @ 99.5MHz	27.1dB	12.2dB	39.3dB @ 99.5MHz	27.1dB	12.2dB
3,6	✓	37.5dB @ 75.8MHz	29.2dB	8.3dB	35.9dB @ 100.0MHz	27.1dB	8.8dB
5,4	✓	41.8dB @ 47.8MHz	32.6dB	9.2dB	36.5dB @ 99.8MHz	27.1dB	9.4dB
1,2	✓	38.7dB @ 98.3MHz	27.2dB	11.5dB	38.7dB @ 98.3MHz	27.2dB	11.5dB



RH

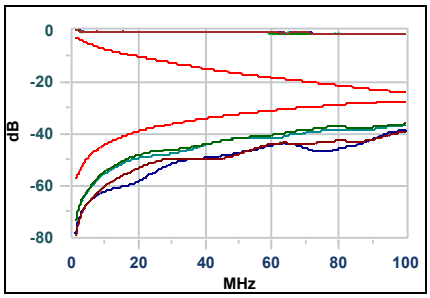
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	39.5dB @ 99.0MHz	27.2dB	12.3dB	39.5dB @ 100.0MHz	27.1dB	12.4dB
3,6	✓	37.2dB @ 77.8MHz	29.0dB	8.2dB	35.8dB @ 100.0MHz	27.1dB	8.7dB
5,4	✓	42.0dB @ 46.0MHz	32.9dB	9.1dB	36.2dB @ 99.8MHz	27.1dB	9.1dB
1,2	✓	38.6dB @ 98.5MHz	27.2dB	11.4dB	38.6dB @ 99.8MHz	27.1dB	11.5dB



PS ACR-N: Pass

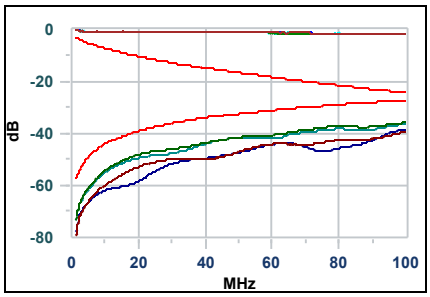
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.8dB @ 3.1MHz	48.4dB	21.4dB	37.9dB @ 99.5MHz	3.2dB	34.7dB
3,6	✓	66.7dB @ 2.5MHz	50.4dB	16.3dB	34.3dB @ 99.5MHz	3.2dB	31.1dB
5,4	✓	67.0dB @ 2.5MHz	50.4dB	16.6dB	35.0dB @ 99.8MHz	3.1dB	31.9dB
1,2	✓	72.6dB @ 2.2MHz	51.5dB	21.1dB	37.3dB @ 98.3MHz	3.4dB	33.9dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	71.6dB @ 2.5MHz	50.4dB	21.2dB	38.1dB @ 99.0MHz	3.3dB	34.8dB
3,6	✓	66.4dB @ 2.5MHz	50.4dB	16.0dB	34.2dB @ 99.8MHz	3.1dB	31.1dB
5,4	✓	66.6dB @ 2.5MHz	50.4dB	16.2dB	34.7dB @ 99.8MHz	3.1dB	31.6dB
1,2	✓	71.1dB @ 2.5MHz	50.4dB	20.7dB	37.2dB @ 98.5MHz	3.4dB	33.8dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:45 AM
Version: 1.3.2

Pass

Test Name: S1 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

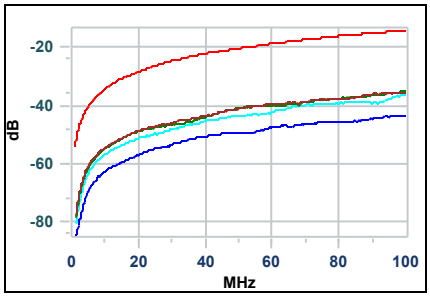
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:48:23
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

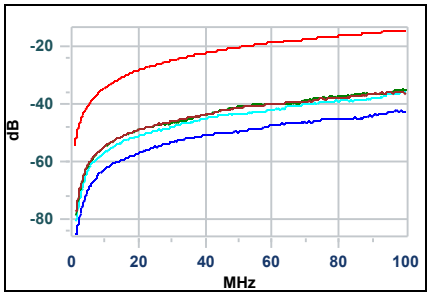
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.2dB @ 5.1MHz	40.3dB	19.9dB	35.5dB @ 96.8MHz	14.7dB	20.8dB
3,6	✓	59.9dB @ 5.5MHz	39.6dB	20.3dB	34.8dB @ 99.3MHz	14.5dB	20.3dB
5,4	✓	36.2dB @ 99.0MHz	14.5dB	21.7dB	36.2dB @ 99.8MHz	14.4dB	21.8dB
1,2	✓	64.2dB @ 8.2MHz	36.1dB	28.1dB	43.3dB @ 100.0MHz	14.4dB	28.9dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.1dB @ 5.2MHz	40.1dB	20.0dB	35.9dB @ 99.3MHz	14.5dB	21.4dB
3,6	✓	60.1dB @ 5.4MHz	39.8dB	20.3dB	34.9dB @ 100.0MHz	14.4dB	20.5dB
5,4	✓	35.9dB @ 99.0MHz	14.5dB	21.4dB	35.8dB @ 99.8MHz	14.4dB	21.4dB
1,2	✓	42.1dB @ 97.0MHz	14.7dB	27.4dB	42.1dB @ 97.0MHz	14.7dB	27.4dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:49 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.0ft	Tot. Length: 20.0ft	Tot. Length: 0ft	Tot. Length: 0ft

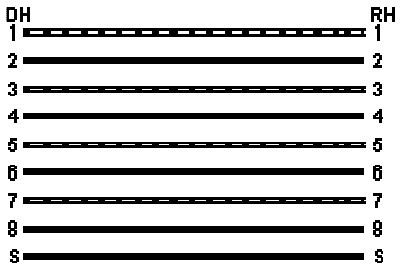
Pass

Test Name: S1 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:45:25
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

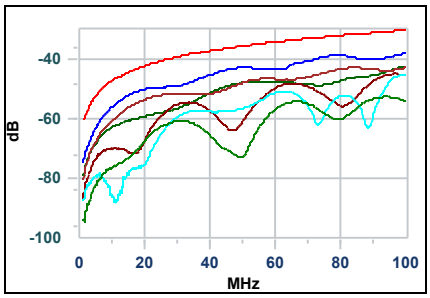


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.3 ft.	21.7 ft.	21.7 ft.	20.0 ft.	< 328.1 ft.	
Propagation Delay	28.6 ns	30.4 ns	30.4 ns	28.4 ns	< 555.0 ns	
Delay Skew	0.2 ns	2.0 ns	2.0 ns	0.0 ns	< 50.0 ns	
Headroom	54.1 dB					

NEXT: Pass

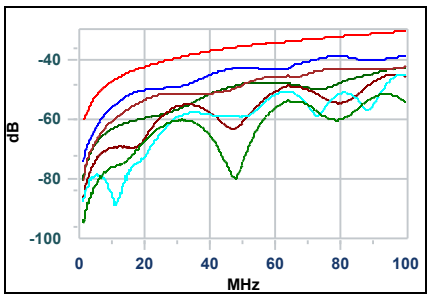
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		42.8dB @ 80.8MHz	31.7dB	11.1dB	42.5dB @ 100.0MHz	30.1dB	12.4dB
7,8-5,4		54.2dB @ 66.3MHz	33.2dB	21.0dB	52.3dB @ 94.8MHz	30.5dB	21.8dB
7,8-1,2		44.9dB @ 98.8MHz	30.2dB	14.7dB	44.8dB @ 100.0MHz	30.1dB	14.7dB
3,6-5,4		38.6dB @ 76.8MHz	32.1dB	6.5dB	37.9dB @ 100.0MHz	30.1dB	7.8dB
3,6-1,2		44.5dB @ 96.3MHz	30.4dB	14.1dB	44.5dB @ 97.3MHz	30.3dB	14.2dB
5,4-1,2		42.2dB @ 99.5MHz	30.1dB	12.1dB	42.2dB @ 100.0MHz	30.1dB	12.1dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		43.0dB @ 75.8MHz	32.2dB	10.8dB	41.9dB @ 100.0MHz	30.1dB	11.8dB
7,8-5,4		53.7dB @ 63.5MHz	33.5dB	20.2dB	51.5dB @ 94.8MHz	30.5dB	21.0dB
7,8-1,2		44.7dB @ 98.8MHz	30.2dB	14.5dB	44.6dB @ 99.5MHz	30.1dB	14.5dB
3,6-5,4		38.6dB @ 76.5MHz	32.1dB	6.5dB	38.2dB @ 100.0MHz	30.1dB	8.1dB
3,6-1,2		44.9dB @ 94.8MHz	30.5dB	14.4dB	44.7dB @ 97.3MHz	30.3dB	14.4dB
5,4-1,2		42.6dB @ 97.3MHz	30.3dB	12.3dB	42.5dB @ 100.0MHz	30.1dB	12.4dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:49 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

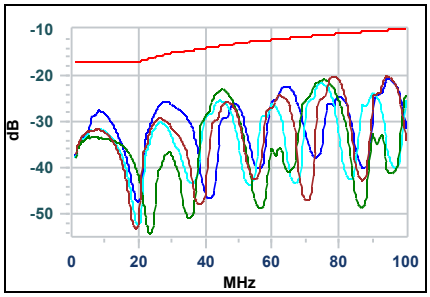
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:45:25
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

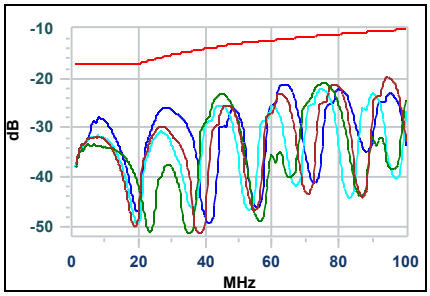
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	20.4dB @ 77.8MHz	11.1dB	9.3dB	20.2dB @ 94.5MHz	10.3dB	9.9dB
3,6	✓	23.1dB @ 45.0MHz	13.5dB	9.6dB	20.9dB @ 75.8MHz	11.2dB	9.7dB
5,4	✓	21.7dB @ 74.3MHz	11.3dB	10.4dB	21.7dB @ 74.8MHz	11.3dB	10.4dB
1,2	✓	25.8dB @ 27.9MHz	15.6dB	10.2dB	20.9dB @ 95.0MHz	10.2dB	10.7dB



RH

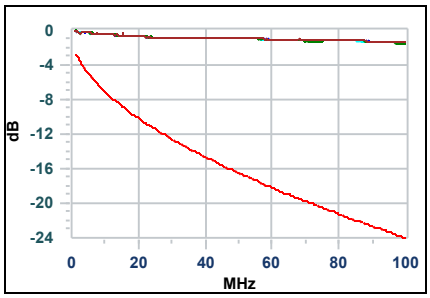
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	19.8dB @ 94.0MHz	10.3dB	9.5dB	19.8dB @ 94.8MHz	10.2dB	9.6dB
3,6	✓	23.1dB @ 45.0MHz	13.5dB	9.6dB	20.9dB @ 76.0MHz	11.2dB	9.7dB
5,4	✓	22.2dB @ 74.3MHz	11.3dB	10.9dB	22.2dB @ 75.0MHz	11.3dB	10.9dB
1,2	✓	21.1dB @ 63.3MHz	12.0dB	9.1dB	21.1dB @ 63.8MHz	12.0dB	9.1dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.4dB @ 95.5MHz	23.4dB	22.0dB
3,6	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.4dB @ 93.5MHz	23.1dB	21.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:49 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

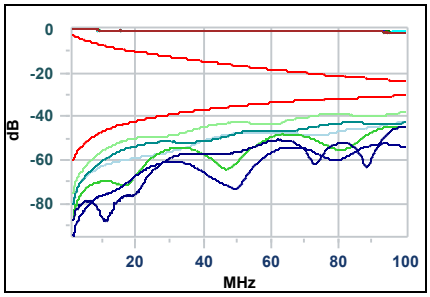
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:45:25
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

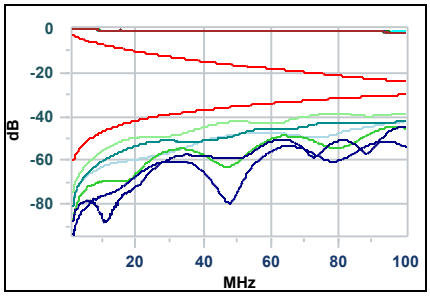
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	70.3dB @ 3.4MHz	50.6dB	19.7dB	40.9dB @ 100.0MHz	6.1dB	34.8dB
7,8-5,4	60.9dB @ 26.4MHz	28.3dB	32.6dB	50.9dB @ 93.5MHz	7.5dB	43.4dB
7,8-1,2	81.5dB @ 2.5MHz	53.4dB	28.1dB	43.5dB @ 99.3MHz	6.2dB	37.3dB
3,6-5,4	70.8dB @ 1.9MHz	55.7dB	15.1dB	36.3dB @ 99.8MHz	6.1dB	30.2dB
3,6-1,2	77.7dB @ 2.8MHz	52.4dB	25.3dB	43.0dB @ 97.0MHz	6.7dB	36.3dB
5,4-1,2	71.8dB @ 2.8MHz	52.4dB	19.4dB	40.7dB @ 99.5MHz	6.2dB	34.5dB



RH

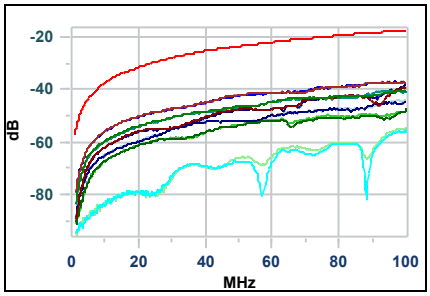
Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	72.6dB @ 2.5MHz	53.4dB	19.2dB	40.3dB @ 99.8MHz	6.1dB	34.2dB
7,8-5,4	61.0dB @ 25.9MHz	28.5dB	32.5dB	50.1dB @ 93.5MHz	7.5dB	42.6dB
7,8-1,2	83.7dB @ 1.9MHz	55.7dB	28.0dB	43.3dB @ 99.5MHz	6.2dB	37.1dB
3,6-5,4	68.1dB @ 2.5MHz	53.4dB	14.7dB	36.6dB @ 100.0MHz	6.1dB	30.5dB
3,6-1,2	71.6dB @ 5.5MHz	46.1dB	25.5dB	43.2dB @ 97.0MHz	6.7dB	36.5dB
5,4-1,2	71.9dB @ 2.8MHz	52.4dB	19.5dB	41.0dB @ 98.5MHz	6.4dB	34.6dB



ACR-F: Pass

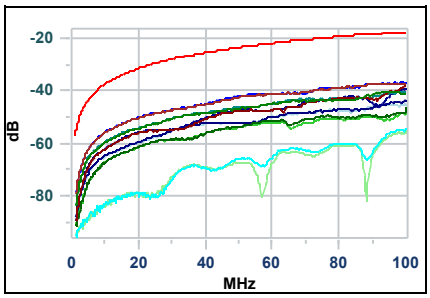
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	61.4dB @ 5.2MHz	43.1dB	18.3dB	37.0dB @ 93.0MHz	18.0dB	19.0dB
7,8-5,4	65.1dB @ 4.9MHz	43.6dB	21.5dB	40.5dB @ 99.5MHz	17.4dB	23.1dB
7,8-1,2	94.8dB @ 1.0MHz	57.4dB	37.4dB	55.3dB @ 99.8MHz	17.4dB	37.9dB
3,6-7,8	61.0dB @ 5.5MHz	42.6dB	18.4dB	37.0dB @ 97.0MHz	17.7dB	19.3dB
3,6-5,4	39.0dB @ 99.8MHz	17.4dB	21.6dB	39.0dB @ 99.8MHz	17.4dB	21.6dB
3,6-1,2	67.6dB @ 9.3MHz	38.1dB	29.5dB	46.9dB @ 100.0MHz	17.4dB	29.5dB
5,4-7,8	64.5dB @ 5.5MHz	42.6dB	21.9dB	40.1dB @ 98.3MHz	17.6dB	22.5dB
5,4-3,6	38.2dB @ 100.0MHz	17.4dB	20.8dB	38.2dB @ 100.0MHz	17.4dB	20.8dB
5,4-1,2	53.8dB @ 33.3MHz	27.0dB	26.8dB	44.8dB @ 95.0MHz	17.8dB	27.0dB
1,2-7,8	94.3dB @ 1.0MHz	57.4dB	36.9dB	54.5dB @ 99.8MHz	17.4dB	37.1dB
1,2-3,6	51.6dB @ 57.0MHz	22.3dB	29.3dB	46.7dB @ 100.0MHz	17.4dB	29.3dB
1,2-5,4	44.2dB @ 96.0MHz	17.8dB	26.4dB	43.8dB @ 99.8MHz	17.4dB	26.4dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	60.8dB @ 5.7MHz	42.4dB	18.4dB	37.2dB @ 97.0MHz	17.7dB	19.5dB
7,8-5,4	65.3dB @ 5.1MHz	43.3dB	22.0dB	40.2dB @ 95.5MHz	17.8dB	22.4dB
7,8-1,2	94.3dB @ 1.0MHz	57.4dB	36.9dB	54.5dB @ 99.8MHz	17.4dB	37.1dB
3,6-7,8	61.4dB @ 5.2MHz	43.1dB	18.3dB	36.8dB @ 99.3MHz	17.5dB	19.3dB
3,6-5,4	38.1dB @ 100.0MHz	17.4dB	20.7dB	38.1dB @ 100.0MHz	17.4dB	20.7dB
3,6-1,2	46.4dB @ 100.0MHz	17.4dB	29.0dB	46.4dB @ 100.0MHz	17.4dB	29.0dB
5,4-7,8	65.1dB @ 4.9MHz	43.6dB	21.5dB	40.3dB @ 99.5MHz	17.4dB	22.9dB
5,4-3,6	39.1dB @ 99.8MHz	17.4dB	21.7dB	39.1dB @ 99.8MHz	17.4dB	21.7dB
5,4-1,2	43.6dB @ 99.8MHz	17.4dB	26.2dB	43.6dB @ 99.8MHz	17.4dB	26.2dB
1,2-7,8	94.8dB @ 1.0MHz	57.4dB	37.4dB	55.3dB @ 99.8MHz	17.4dB	37.9dB
1,2-3,6	67.6dB @ 9.3MHz	38.1dB	29.5dB	47.2dB @ 100.0MHz	17.4dB	29.8dB
1,2-5,4	53.8dB @ 33.3MHz	27.0dB	26.8dB	44.8dB @ 95.0MHz	17.8dB	27.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:49 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

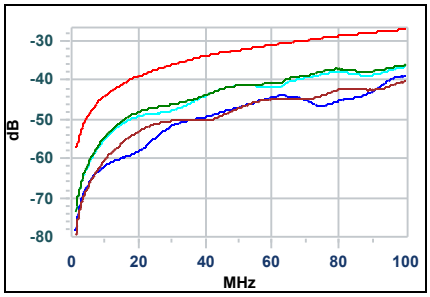
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:45:25
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

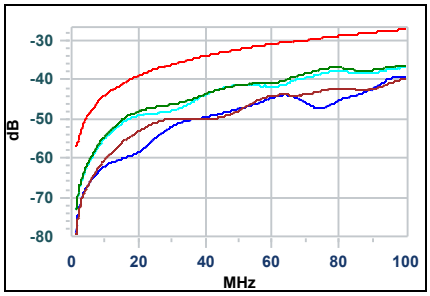
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	40.4dB @ 98.8MHz	27.2dB	13.2dB	40.3dB @ 100.0MHz	27.1dB	13.2dB
3,6	✓	37.0dB @ 78.8MHz	28.9dB	8.1dB	36.0dB @ 100.0MHz	27.1dB	8.9dB
5,4	✓	37.9dB @ 77.8MHz	29.0dB	8.9dB	36.4dB @ 100.0MHz	27.1dB	9.3dB
1,2	✓	39.0dB @ 98.8MHz	27.2dB	11.8dB	39.0dB @ 100.0MHz	27.1dB	11.9dB



RH

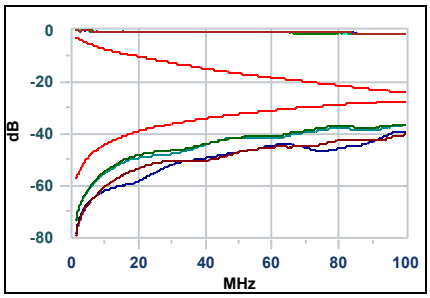
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	39.9dB @ 98.8MHz	27.2dB	12.7dB	39.8dB @ 99.8MHz	27.1dB	12.7dB
3,6	✓	37.2dB @ 75.8MHz	29.2dB	8.0dB	36.1dB @ 100.0MHz	27.1dB	9.0dB
5,4	✓	41.8dB @ 46.0MHz	32.9dB	8.9dB	36.7dB @ 100.0MHz	27.1dB	9.6dB
1,2	✓	39.2dB @ 97.3MHz	27.3dB	11.9dB	39.1dB @ 99.5MHz	27.1dB	12.0dB



PS ACR-N: Pass

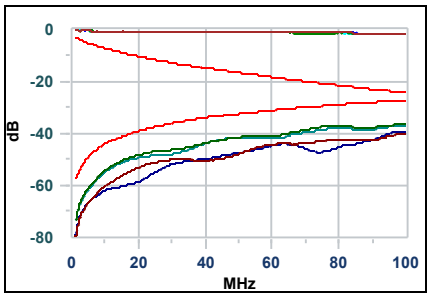
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.7dB @ 3.4MHz	47.6dB	22.1dB	39.0dB @ 99.5MHz	3.2dB	35.8dB
3,6	✓	59.7dB @ 5.5MHz	43.1dB	16.6dB	34.4dB @ 99.8MHz	3.1dB	31.3dB
5,4	✓	67.2dB @ 2.5MHz	50.4dB	16.8dB	34.9dB @ 99.8MHz	3.1dB	31.8dB
1,2	✓	70.4dB @ 2.8MHz	49.4dB	21.0dB	37.7dB @ 98.8MHz	3.4dB	34.3dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	72.0dB @ 2.5MHz	50.4dB	21.6dB	38.5dB @ 99.8MHz	3.1dB	35.4dB
3,6	✓	66.5dB @ 2.5MHz	50.4dB	16.1dB	34.5dB @ 99.5MHz	3.2dB	31.3dB
5,4	✓	66.9dB @ 2.5MHz	50.4dB	16.5dB	35.2dB @ 100.0MHz	3.1dB	32.1dB
1,2	✓	70.6dB @ 2.8MHz	49.4dB	21.2dB	37.8dB @ 98.5MHz	3.4dB	34.4dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:49 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

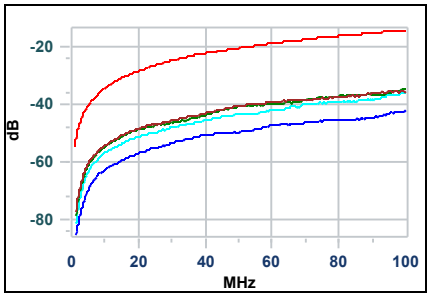
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:45:25
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

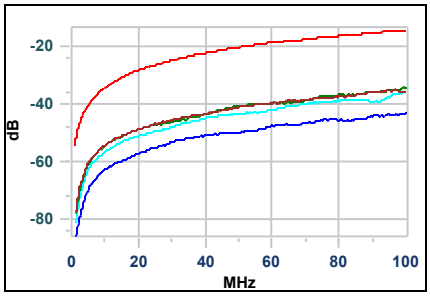
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	59.7dB @ 5.2MHz	40.1dB	19.6dB	35.4dB @ 99.3MHz	14.5dB	20.9dB
3,6	✓	55.3dB @ 9.3MHz	35.1dB	20.2dB	34.8dB @ 100.0MHz	14.4dB	20.4dB
5,4	✓	35.7dB @ 99.5MHz	14.4dB	21.3dB	35.7dB @ 100.0MHz	14.4dB	21.3dB
1,2	✓	42.1dB @ 100.0MHz	14.4dB	27.7dB	42.1dB @ 100.0MHz	14.4dB	27.7dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	59.9dB @ 5.2MHz	40.1dB	19.8dB	35.4dB @ 94.8MHz	14.9dB	20.5dB
3,6	✓	34.3dB @ 99.3MHz	14.5dB	19.8dB	34.2dB @ 100.0MHz	14.4dB	19.8dB
5,4	✓	35.9dB @ 99.3MHz	14.5dB	21.4dB	35.8dB @ 99.8MHz	14.4dB	21.4dB
1,2	✓	64.2dB @ 8.4MHz	36.0dB	28.2dB	42.9dB @ 100.0MHz	14.4dB	28.5dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:37 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.0ft	Tot. Length: 20.0ft	Tot. Length: 0ft	Tot. Length: 0ft

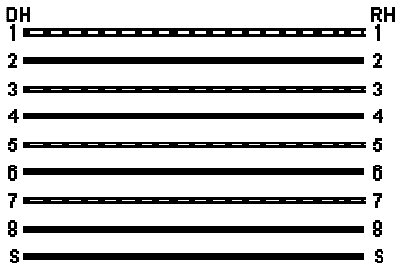
Pass

Test Name: S1 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:04:20
Operator: ENGINEERING
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

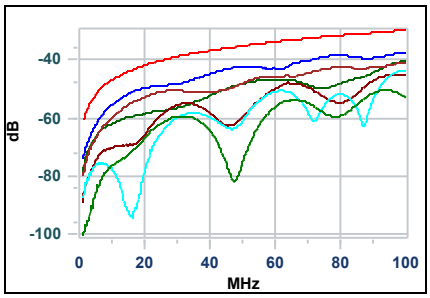


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.3 ft.	21.3 ft.	21.7 ft.	20.0 ft.	< 328.1 ft.	
Propagation Delay	28.6 ns	30.2 ns	30.4 ns	28.2 ns	< 555.0 ns	
Delay Skew	0.4 ns	2.0 ns	2.2 ns	0.0 ns	< 50.0 ns	
Headroom	64.5 dB					

NEXT: Pass

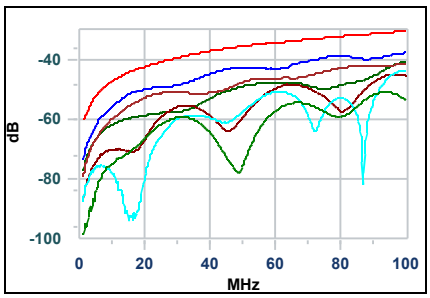
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		52.0dB @ 21.7MHz	41.4dB	10.6dB	40.9dB @ 100.0MHz	30.1dB	10.8dB
7,8-5,4		50.5dB @ 93.8MHz	30.6dB	19.9dB	50.5dB @ 94.5MHz	30.5dB	20.0dB
7,8-1,2		43.9dB @ 98.3MHz	30.2dB	13.7dB	43.9dB @ 99.5MHz	30.1dB	13.8dB
3,6-5,4		38.8dB @ 76.5MHz	32.1dB	6.7dB	37.7dB @ 100.0MHz	30.1dB	7.6dB
3,6-1,2		48.0dB @ 63.5MHz	33.5dB	14.5dB	44.8dB @ 97.3MHz	30.3dB	14.5dB
5,4-1,2		40.8dB @ 98.3MHz	30.2dB	10.6dB	40.7dB @ 100.0MHz	30.1dB	10.6dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		41.8dB @ 83.3MHz	31.5dB	10.3dB	40.7dB @ 100.0MHz	30.1dB	10.6dB
7,8-5,4		59.4dB @ 29.4MHz	39.2dB	20.2dB	50.8dB @ 94.8MHz	30.5dB	20.3dB
7,8-1,2		43.6dB @ 98.5MHz	30.2dB	13.4dB	43.6dB @ 99.5MHz	30.1dB	13.5dB
3,6-5,4		38.6dB @ 76.5MHz	32.1dB	6.5dB	37.3dB @ 100.0MHz	30.1dB	7.2dB
3,6-1,2		47.8dB @ 63.5MHz	33.5dB	14.3dB	44.8dB @ 97.8MHz	30.2dB	14.6dB
5,4-1,2		40.2dB @ 100.0MHz	30.1dB	10.1dB	40.2dB @ 100.0MHz	30.1dB	10.1dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:37 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

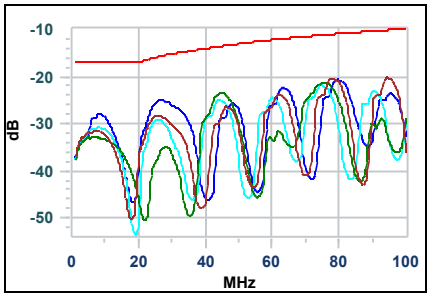
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:04:20
Operator: ENGINEERING
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

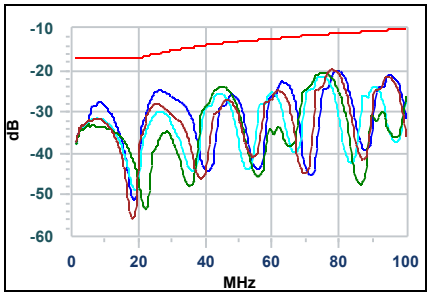
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	20.6dB @ 77.5MHz	11.1dB	9.5dB	20.3dB @ 94.8MHz	10.2dB	10.1dB
3,6	✓	23.4dB @ 45.0MHz	13.5dB	9.9dB	21.4dB @ 76.0MHz	11.2dB	10.2dB
5,4	✓	21.9dB @ 74.5MHz	11.3dB	10.6dB	21.9dB @ 74.5MHz	11.3dB	10.6dB
1,2	✓	25.2dB @ 26.1MHz	15.9dB	9.3dB	20.7dB @ 79.8MHz	11.0dB	9.7dB



RH

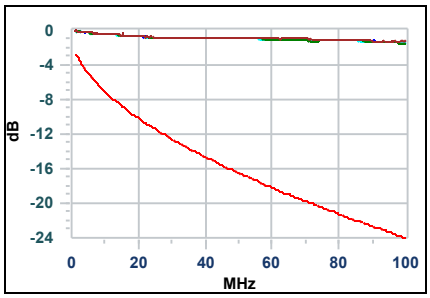
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	19.9dB @ 77.5MHz	11.1dB	8.8dB	19.9dB @ 78.3MHz	11.1dB	8.8dB
3,6	✓	20.6dB @ 74.8MHz	11.3dB	9.3dB	20.5dB @ 76.0MHz	11.2dB	9.3dB
5,4	✓	21.4dB @ 74.0MHz	11.3dB	10.1dB	21.4dB @ 75.0MHz	11.3dB	10.1dB
1,2	✓	24.9dB @ 25.8MHz	15.9dB	9.0dB	20.1dB @ 79.8MHz	11.0dB	9.1dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 99.5MHz	23.9dB	22.6dB
3,6	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 100.0MHz	24.0dB	22.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:37 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

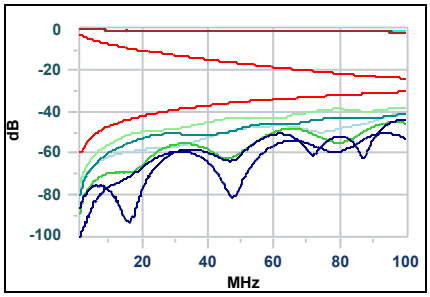
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:04:20
Operator: ENGINEERING
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

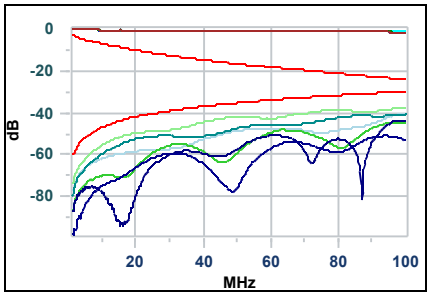
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.9dB @ 3.0MHz	51.9dB	19.0dB	39.3dB @ 100.0MHz	6.1dB	33.2dB
7,8-5,4	✓	59.4dB @ 27.4MHz	27.7dB	31.7dB	49.2dB @ 93.8MHz	7.4dB	41.8dB
7,8-1,2	✓	80.1dB @ 2.5MHz	53.4dB	26.7dB	42.6dB @ 98.3MHz	6.4dB	36.2dB
3,6-5,4	✓	70.1dB @ 1.9MHz	55.7dB	14.4dB	36.1dB @ 100.0MHz	6.1dB	30.0dB
3,6-1,2	✓	77.2dB @ 3.4MHz	50.6dB	26.6dB	43.4dB @ 96.5MHz	6.8dB	36.6dB
5,4-1,2	✓	73.1dB @ 2.1MHz	55.1dB	18.0dB	39.2dB @ 99.8MHz	6.1dB	33.1dB



RH

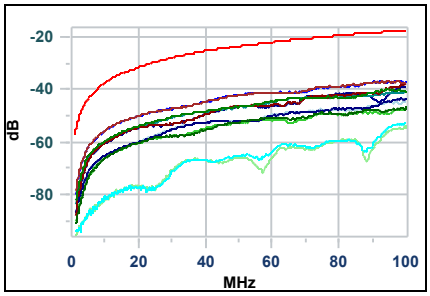
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.7dB @ 3.0MHz	51.9dB	18.8dB	39.1dB @ 100.0MHz	6.1dB	33.0dB
7,8-5,4	✓	59.8dB @ 26.4MHz	28.3dB	31.5dB	49.5dB @ 93.3MHz	7.5dB	42.0dB
7,8-1,2	✓	82.9dB @ 1.8MHz	56.4dB	26.5dB	42.3dB @ 98.5MHz	6.4dB	35.9dB
3,6-5,4	✓	70.5dB @ 1.8MHz	56.4dB	14.1dB	35.7dB @ 100.0MHz	6.1dB	29.6dB
3,6-1,2	✓	75.0dB @ 4.2MHz	48.8dB	26.2dB	43.3dB @ 97.8MHz	6.5dB	36.8dB
5,4-1,2	✓	71.3dB @ 2.5MHz	53.4dB	17.9dB	38.7dB @ 100.0MHz	6.1dB	32.6dB



ACR-F: Pass

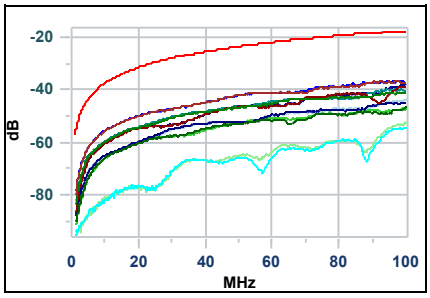
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	60.4dB @ 5.7MHz	42.4dB	18.0dB	37.0dB @ 98.3MHz	17.6dB	19.4dB
7,8-5,4	✓	63.9dB @ 5.7MHz	42.4dB	21.5dB	39.9dB @ 95.5MHz	17.8dB	22.1dB
7,8-1,2	✓	52.5dB @ 99.8MHz	17.4dB	35.1dB	52.5dB @ 99.8MHz	17.4dB	35.1dB
3,6-7,8	✓	61.3dB @ 5.2MHz	43.1dB	18.2dB	36.8dB @ 97.0MHz	17.7dB	19.1dB
3,6-5,4	✓	37.4dB @ 100.0MHz	17.4dB	20.0dB	37.4dB @ 100.0MHz	17.4dB	20.0dB
3,6-1,2	✓	50.6dB @ 57.3MHz	22.2dB	28.4dB	46.3dB @ 100.0MHz	17.4dB	28.9dB
5,4-7,8	✓	64.9dB @ 5.2MHz	43.1dB	21.8dB	40.6dB @ 99.8MHz	17.4dB	23.2dB
5,4-3,6	✓	38.6dB @ 99.8MHz	17.4dB	21.2dB	38.6dB @ 99.8MHz	17.4dB	21.2dB
5,4-1,2	✓	43.2dB @ 99.8MHz	17.4dB	25.8dB	43.2dB @ 99.8MHz	17.4dB	25.8dB
1,2-7,8	✓	53.9dB @ 99.8MHz	17.4dB	36.5dB	53.9dB @ 99.8MHz	17.4dB	36.5dB
1,2-3,6	✓	65.8dB @ 10.0MHz	37.4dB	28.4dB	46.4dB @ 100.0MHz	17.4dB	29.0dB
1,2-5,4	✓	53.6dB @ 34.0MHz	26.8dB	26.8dB	44.7dB @ 99.8MHz	17.4dB	27.3dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	61.3dB @ 5.2MHz	43.1dB	18.2dB	36.9dB @ 97.0MHz	17.7dB	19.2dB
7,8-5,4	✓	64.9dB @ 5.2MHz	43.1dB	21.8dB	40.9dB @ 99.8MHz	17.4dB	23.5dB
7,8-1,2	✓	54.0dB @ 99.8MHz	17.4dB	36.6dB	54.0dB @ 99.8MHz	17.4dB	36.6dB
3,6-7,8	✓	60.4dB @ 5.7MHz	42.4dB	18.0dB	36.8dB @ 98.3MHz	17.6dB	19.2dB
3,6-5,4	✓	38.6dB @ 99.8MHz	17.4dB	21.2dB	38.6dB @ 99.8MHz	17.4dB	21.2dB
3,6-1,2	✓	65.8dB @ 10.0MHz	37.4dB	28.4dB	46.1dB @ 100.0MHz	17.4dB	28.7dB
5,4-7,8	✓	63.8dB @ 5.7MHz	42.4dB	21.4dB	39.9dB @ 99.0MHz	17.5dB	22.4dB
5,4-3,6	✓	37.5dB @ 100.0MHz	17.4dB	20.1dB	37.5dB @ 100.0MHz	17.4dB	20.1dB
5,4-1,2	✓	53.6dB @ 34.0MHz	26.8dB	26.8dB	44.5dB @ 99.8MHz	17.4dB	27.1dB
1,2-7,8	✓	52.4dB @ 99.8MHz	17.4dB	35.0dB	52.4dB @ 99.8MHz	17.4dB	35.0dB
1,2-3,6	✓	66.0dB @ 9.9MHz	37.5dB	28.5dB	46.6dB @ 100.0MHz	17.4dB	29.2dB
1,2-5,4	✓	43.4dB @ 99.8MHz	17.4dB	26.0dB	43.4dB @ 99.8MHz	17.4dB	26.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:37 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

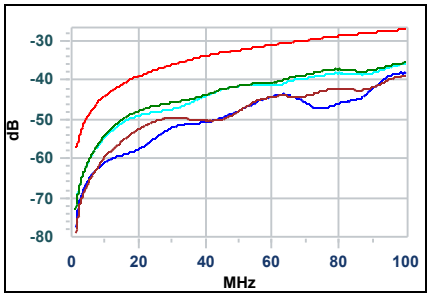
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:04:20
Operator: ENGINEERING
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

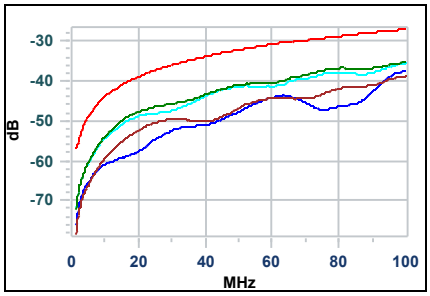
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	39.0dB @ 98.8MHz	27.2dB	11.8dB	38.9dB @ 99.8MHz	27.1dB	11.8dB
3,6	✓	37.2dB @ 76.5MHz	29.1dB	8.1dB	35.5dB @ 100.0MHz	27.1dB	8.4dB
5,4	✓	35.8dB @ 99.5MHz	27.1dB	8.7dB	35.8dB @ 100.0MHz	27.1dB	8.7dB
1,2	✓	38.0dB @ 98.3MHz	27.2dB	10.8dB	38.0dB @ 99.5MHz	27.1dB	10.9dB



RH

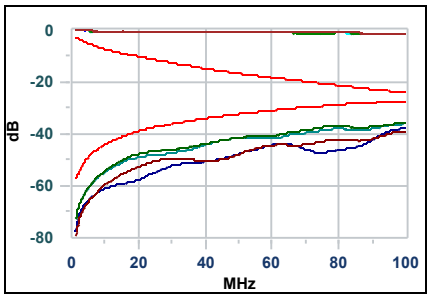
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.8dB @ 99.0MHz	27.2dB	11.6dB	38.7dB @ 100.0MHz	27.1dB	11.6dB
3,6	✓	36.9dB @ 78.8MHz	28.9dB	8.0dB	35.2dB @ 100.0MHz	27.1dB	8.1dB
5,4	✓	35.4dB @ 100.0MHz	27.1dB	8.3dB	35.4dB @ 100.0MHz	27.1dB	8.3dB
1,2	✓	37.8dB @ 98.8MHz	27.2dB	10.6dB	37.7dB @ 100.0MHz	27.1dB	10.6dB



PS ACR-N: Pass

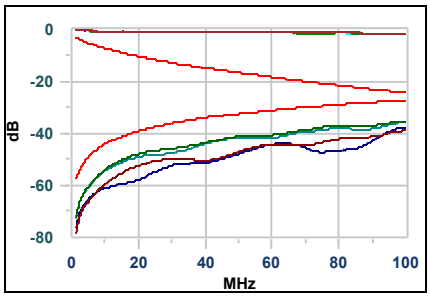
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	71.7dB @ 2.5MHz	50.4dB	21.3dB	37.7dB @ 99.3MHz	3.2dB	34.5dB
3,6	✓	68.9dB @ 1.9MHz	52.7dB	16.2dB	33.9dB @ 100.0MHz	3.1dB	30.8dB
5,4	✓	67.9dB @ 2.1MHz	52.1dB	15.8dB	34.3dB @ 99.8MHz	3.1dB	31.2dB
1,2	✓	72.2dB @ 2.1MHz	52.1dB	20.1dB	36.7dB @ 98.3MHz	3.4dB	33.3dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.1dB @ 3.3MHz	48.0dB	21.1dB	37.5dB @ 99.3MHz	3.2dB	34.3dB
3,6	✓	66.1dB @ 2.5MHz	50.4dB	15.7dB	33.6dB @ 100.0MHz	3.1dB	30.5dB
5,4	✓	65.9dB @ 2.5MHz	50.4dB	15.5dB	33.9dB @ 100.0MHz	3.1dB	30.8dB
1,2	✓	70.3dB @ 2.5MHz	50.4dB	19.9dB	36.4dB @ 99.5MHz	3.2dB	33.2dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:37 AM
Version: 1.3.2

Pass

Test Name: S1 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:04:20
Operator: ENGINEERING
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

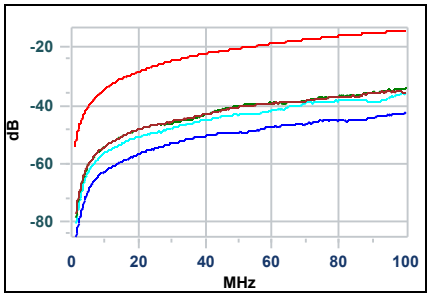
PS ACR-F: Pass

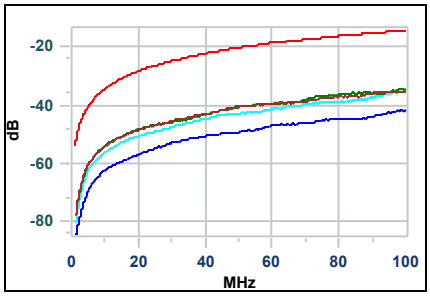
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	58.7dB @ 5.7MHz	39.4dB	19.3dB	35.1dB @ 98.3MHz	14.6dB	20.5dB
3,6	✓	33.9dB @ 100.0MHz	14.4dB	19.5dB	33.9dB @ 100.0MHz	14.4dB	19.5dB
5,4	✓	35.6dB @ 99.8MHz	14.4dB	21.2dB	35.6dB @ 99.8MHz	14.4dB	21.2dB
1,2	✓	66.2dB @ 6.4MHz	38.3dB	27.9dB	42.3dB @ 100.0MHz	14.4dB	27.9dB

RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	59.7dB @ 5.2MHz	40.1dB	19.6dB	35.4dB @ 95.0MHz	14.8dB	20.6dB
3,6	✓	59.1dB @ 5.5MHz	39.6dB	19.5dB	34.5dB @ 98.8MHz	14.5dB	20.0dB
5,4	✓	35.2dB @ 99.8MHz	14.4dB	20.8dB	35.2dB @ 100.0MHz	14.4dB	20.8dB
1,2	✓	41.8dB @ 97.5MHz	14.6dB	27.2dB	41.6dB @ 99.8MHz	14.4dB	27.2dB





IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:46 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.3ft	Tot. Length: 20.3ft	Tot. Length: 0ft	Tot. Length: 0ft

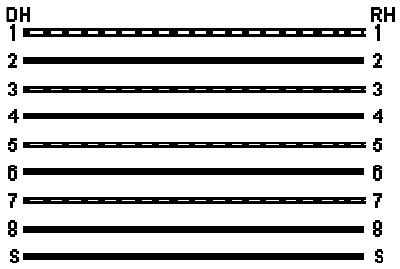
Pass

Test Name: S2 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:53:58
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

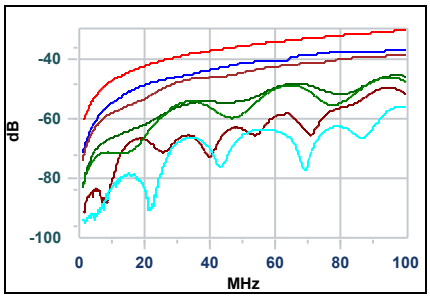


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.7 ft.	21.3 ft.	21.7 ft.	20.3 ft.	< 328.1 ft.	
Propagation Delay	29.0 ns	30.0 ns	30.6 ns	28.6 ns	< 555.0 ns	
Delay Skew	0.4 ns	1.4 ns	2.0 ns	0.0 ns	< 50.0 ns	
Headroom	61.0 dB					

NEXT: Pass

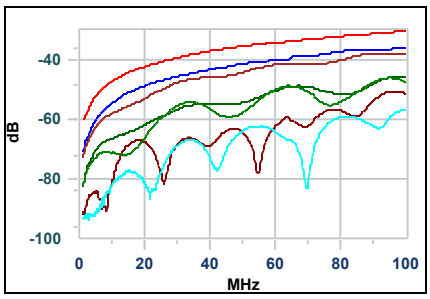
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		39.5dB @ 81.8MHz	31.6dB	7.9dB	38.4dB @ 100.0MHz	30.1dB	8.3dB
7,8-5,4		48.7dB @ 62.8MHz	33.6dB	15.1dB	45.9dB @ 95.8MHz	30.4dB	15.5dB
7,8-1,2		55.8dB @ 97.5MHz	30.3dB	25.5dB	55.8dB @ 100.0MHz	30.1dB	25.7dB
3,6-5,4		37.1dB @ 78.8MHz	31.9dB	5.2dB	36.3dB @ 100.0MHz	30.1dB	6.2dB
3,6-1,2		49.2dB @ 94.5MHz	30.5dB	18.7dB	49.2dB @ 94.5MHz	30.5dB	18.7dB
5,4-1,2		45.1dB @ 96.0MHz	30.4dB	14.7dB	45.0dB @ 97.0MHz	30.3dB	14.7dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		37.8dB @ 87.5MHz	31.1dB	6.7dB	37.5dB @ 92.8MHz	30.6dB	6.9dB
7,8-5,4		48.4dB @ 63.5MHz	33.5dB	14.9dB	45.8dB @ 95.8MHz	30.4dB	15.4dB
7,8-1,2		56.7dB @ 98.8MHz	30.2dB	26.5dB	56.6dB @ 100.0MHz	30.1dB	26.5dB
3,6-5,4		37.0dB @ 79.8MHz	31.8dB	5.2dB	36.1dB @ 100.0MHz	30.1dB	6.0dB
3,6-1,2		50.6dB @ 95.0MHz	30.5dB	20.1dB	50.5dB @ 96.8MHz	30.3dB	20.2dB
5,4-1,2		45.5dB @ 96.3MHz	30.4dB	15.1dB	45.4dB @ 97.8MHz	30.2dB	15.2dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:46 AM
Version: 1.3.2

Pass

Test Name: S2 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

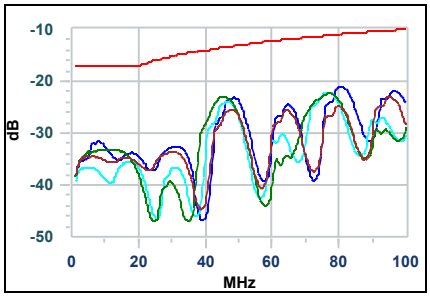
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:53:58
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

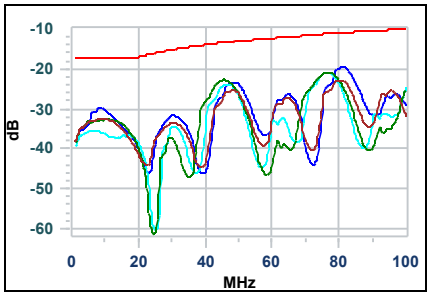
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	25.6dB @ 47.3MHz	13.3dB	12.3dB	23.0dB @ 95.3MHz	10.2dB	12.8dB
3,6	✓	22.9dB @ 45.0MHz	13.5dB	9.4dB	22.4dB @ 77.8MHz	11.1dB	11.3dB
5,4	✓	24.1dB @ 46.3MHz	13.4dB	10.7dB	22.2dB @ 77.3MHz	11.1dB	11.1dB
1,2	✓	23.1dB @ 48.3MHz	13.2dB	9.9dB	21.1dB @ 81.0MHz	10.9dB	10.2dB



RH

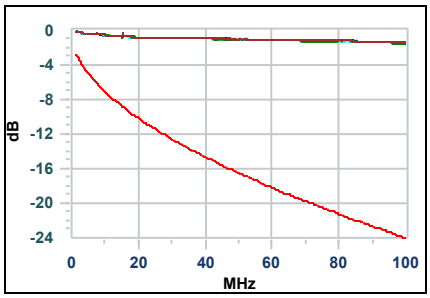
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	22.8dB @ 79.3MHz	11.0dB	11.8dB	22.8dB @ 80.8MHz	10.9dB	11.9dB
3,6	✓	22.8dB @ 45.3MHz	13.5dB	9.3dB	20.9dB @ 77.0MHz	11.1dB	9.8dB
5,4	✓	21.1dB @ 76.5MHz	11.2dB	9.9dB	21.1dB @ 77.0MHz	11.1dB	10.0dB
1,2	✓	19.7dB @ 80.5MHz	11.0dB	8.7dB	19.7dB @ 81.8MHz	10.9dB	8.8dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB
3,6	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
1,2	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:46 AM
Version: 1.3.2

Pass

Test Name: S2 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

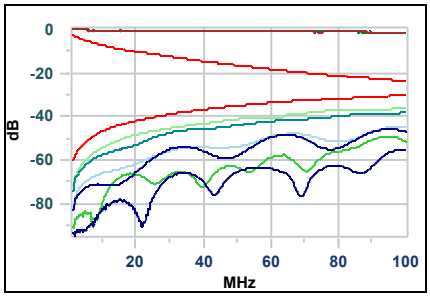
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:53:58
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

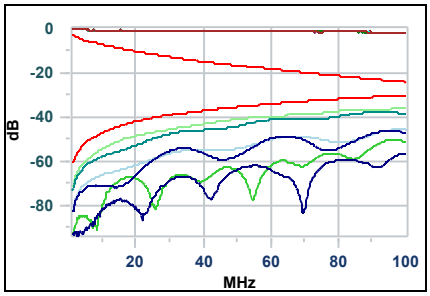
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.3dB @ 1.8MHz	56.4dB	13.9dB	36.8dB @ 98.5MHz	6.4dB	30.4dB
7,8-5,4	✓	78.5dB @ 2.1MHz	55.1dB	23.4dB	44.4dB @ 95.8MHz	7.0dB	37.4dB
7,8-1,2	✓	93.4dB @ 1.5MHz	57.0dB	36.4dB	54.4dB @ 97.5MHz	6.6dB	47.8dB
3,6-5,4	✓	69.2dB @ 1.6MHz	57.0dB	12.2dB	34.7dB @ 99.5MHz	6.2dB	28.5dB
3,6-1,2	✓	66.4dB @ 16.3MHz	34.4dB	32.0dB	47.8dB @ 94.5MHz	7.2dB	40.6dB
5,4-1,2	✓	72.3dB @ 3.6MHz	50.2dB	22.1dB	43.5dB @ 97.0MHz	6.7dB	36.8dB



RH

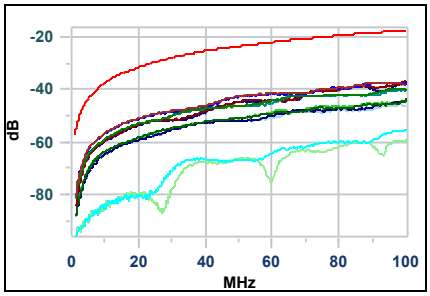
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	69.1dB @ 1.9MHz	55.7dB	13.4dB	36.1dB @ 90.5MHz	8.1dB	28.0dB
7,8-5,4	✓	77.3dB @ 2.2MHz	54.5dB	22.8dB	44.3dB @ 95.8MHz	7.0dB	37.3dB
7,8-1,2	✓	92.4dB @ 1.6MHz	57.0dB	35.4dB	55.2dB @ 99.3MHz	6.2dB	49.0dB
3,6-5,4	✓	66.9dB @ 2.1MHz	55.1dB	11.8dB	34.5dB @ 98.5MHz	6.4dB	28.1dB
3,6-1,2	✓	68.0dB @ 15.0MHz	35.4dB	32.6dB	49.0dB @ 96.3MHz	6.9dB	42.1dB
5,4-1,2	✓	75.3dB @ 2.5MHz	53.4dB	21.9dB	43.9dB @ 97.8MHz	6.5dB	37.4dB



ACR-F: Pass

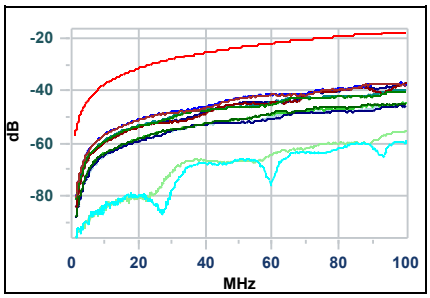
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	60.0dB @ 6.6MHz	41.1dB	18.9dB	37.2dB @ 98.8MHz	17.5dB	19.7dB
7,8-5,4	✓	64.3dB @ 5.1MHz	43.3dB	21.0dB	39.5dB @ 98.0MHz	17.6dB	21.9dB
7,8-1,2	✓	54.9dB @ 99.8MHz	17.4dB	37.5dB	54.9dB @ 99.8MHz	17.4dB	37.5dB
3,6-7,8	✓	37.5dB @ 87.5MHz	18.6dB	18.9dB	37.2dB @ 99.0MHz	17.5dB	19.7dB
3,6-5,4	✓	36.6dB @ 100.0MHz	17.4dB	19.2dB	36.6dB @ 100.0MHz	17.4dB	19.2dB
3,6-1,2	✓	67.1dB @ 6.6MHz	41.1dB	26.0dB	43.6dB @ 100.0MHz	17.4dB	26.2dB
5,4-7,8	✓	64.8dB @ 4.9MHz	43.6dB	21.2dB	40.0dB @ 99.3MHz	17.5dB	22.5dB
5,4-3,6	✓	37.0dB @ 100.0MHz	17.4dB	19.6dB	37.0dB @ 100.0MHz	17.4dB	19.6dB
5,4-1,2	✓	44.2dB @ 99.3MHz	17.5dB	26.7dB	44.2dB @ 99.3MHz	17.5dB	26.7dB
1,2-7,8	✓	95.4dB @ 1.0MHz	57.4dB	38.0dB	58.9dB @ 100.0MHz	17.4dB	41.5dB
1,2-3,6	✓	68.9dB @ 5.2MHz	43.1dB	25.8dB	44.8dB @ 99.0MHz	17.5dB	27.3dB
1,2-5,4	✓	53.0dB @ 36.5MHz	26.2dB	26.8dB	45.7dB @ 98.8MHz	17.5dB	28.2dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	37.5dB @ 87.5MHz	18.6dB	18.9dB	37.2dB @ 94.8MHz	17.9dB	19.3dB
7,8-5,4	✓	64.8dB @ 4.9MHz	43.6dB	21.2dB	40.1dB @ 98.0MHz	17.6dB	22.5dB
7,8-1,2	✓	95.4dB @ 1.0MHz	57.4dB	38.0dB	58.9dB @ 100.0MHz	17.4dB	41.5dB
3,6-7,8	✓	60.0dB @ 6.6MHz	41.1dB	18.9dB	37.0dB @ 98.8MHz	17.5dB	19.5dB
3,6-5,4	✓	37.0dB @ 100.0MHz	17.4dB	19.6dB	37.0dB @ 100.0MHz	17.4dB	19.6dB
3,6-1,2	✓	68.9dB @ 5.2MHz	43.1dB	25.8dB	44.6dB @ 99.0MHz	17.5dB	27.1dB
5,4-7,8	✓	64.3dB @ 5.1MHz	43.3dB	21.0dB	39.4dB @ 98.0MHz	17.6dB	21.8dB
5,4-3,6	✓	36.6dB @ 100.0MHz	17.4dB	19.2dB	36.6dB @ 100.0MHz	17.4dB	19.2dB
5,4-1,2	✓	53.1dB @ 36.0MHz	26.3dB	26.8dB	45.6dB @ 98.8MHz	17.5dB	28.1dB
1,2-7,8	✓	54.9dB @ 99.8MHz	17.4dB	37.5dB	54.9dB @ 99.8MHz	17.4dB	37.5dB
1,2-3,6	✓	67.1dB @ 6.6MHz	41.1dB	26.0dB	43.8dB @ 100.0MHz	17.4dB	26.4dB
1,2-5,4	✓	47.8dB @ 66.3MHz	21.0dB	26.8dB	44.4dB @ 99.3MHz	17.5dB	26.9dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:46 AM
Version: 1.3.2

Pass

Test Name: S2 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

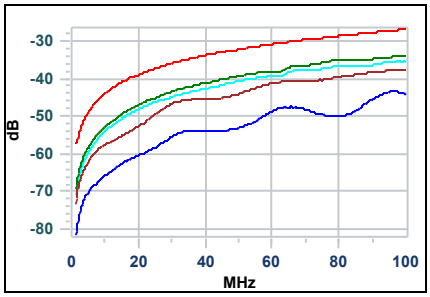
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:53:58
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

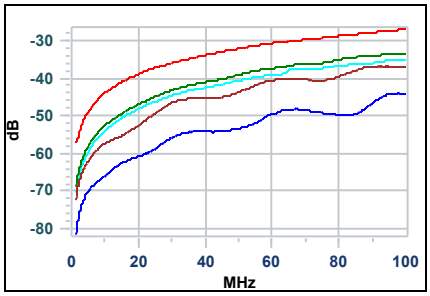
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	40.9dB @ 62.8MHz	30.6dB	10.3dB	37.7dB @ 99.5MHz	27.1dB	10.6dB
3,6	✓	35.2dB @ 78.8MHz	28.9dB	6.3dB	34.1dB @ 100.0MHz	27.1dB	7.0dB
5,4	✓	38.1dB @ 65.0MHz	30.3dB	7.8dB	35.4dB @ 99.5MHz	27.1dB	8.3dB
1,2	✓	43.6dB @ 94.5MHz	27.5dB	16.1dB	43.4dB @ 97.0MHz	27.3dB	16.1dB



RH

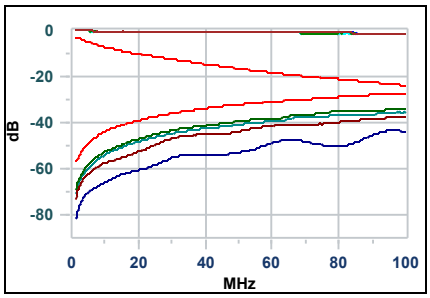
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	37.2dB @ 89.0MHz	28.0dB	9.2dB	36.9dB @ 94.8MHz	27.5dB	9.4dB
3,6	✓	34.3dB @ 85.5MHz	28.3dB	6.0dB	33.7dB @ 97.8MHz	27.2dB	6.5dB
5,4	✓	37.7dB @ 66.0MHz	30.2dB	7.5dB	35.2dB @ 98.5MHz	27.2dB	8.0dB
1,2	✓	44.1dB @ 96.3MHz	27.4dB	16.7dB	44.0dB @ 97.8MHz	27.2dB	16.8dB



PS ACR-N: Pass

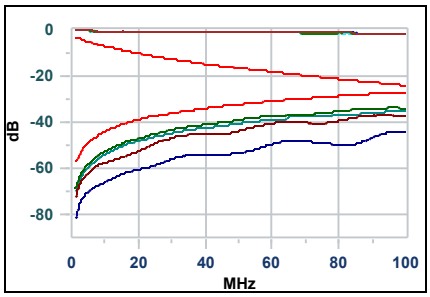
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.9dB @ 1.8MHz	53.4dB	16.5dB	36.3dB @ 97.3MHz	3.6dB	32.7dB
3,6	✓	66.9dB @ 1.6MHz	54.0dB	12.9dB	32.5dB @ 98.5MHz	3.4dB	29.1dB
5,4	✓	68.6dB @ 1.6MHz	54.0dB	14.6dB	33.9dB @ 97.5MHz	3.6dB	30.3dB
1,2	✓	74.2dB @ 2.8MHz	49.4dB	24.8dB	42.0dB @ 97.0MHz	3.7dB	38.3dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	68.6dB @ 1.9MHz	52.7dB	15.9dB	35.5dB @ 91.8MHz	4.8dB	30.7dB
3,6	✓	65.3dB @ 1.9MHz	52.7dB	12.6dB	32.2dB @ 96.3MHz	3.9dB	28.3dB
5,4	✓	66.2dB @ 2.1MHz	52.1dB	14.1dB	33.7dB @ 95.8MHz	4.0dB	29.7dB
1,2	✓	74.9dB @ 2.5MHz	50.4dB	24.5dB	42.6dB @ 97.8MHz	3.5dB	39.1dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:46 AM
Version: 1.3.2

Pass

Test Name: S2 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

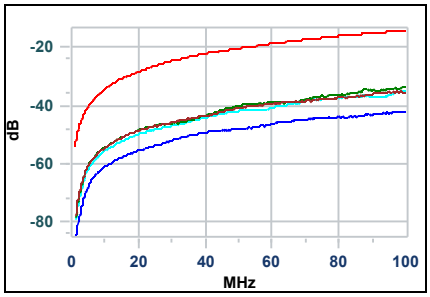
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 11:53:58
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

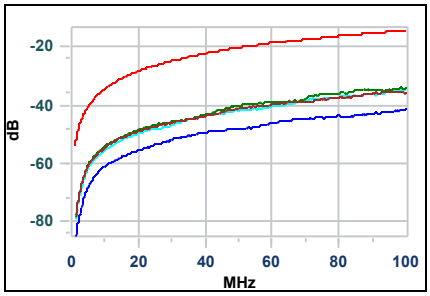
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.5dB @ 4.9MHz	40.6dB	19.9dB	35.2dB @ 98.8MHz	14.5dB	20.7dB
3,6	✓	34.6dB @ 87.5MHz	15.6dB	19.0dB	33.6dB @ 100.0MHz	14.4dB	19.2dB
5,4	✓	34.8dB @ 100.0MHz	14.4dB	20.4dB	34.8dB @ 100.0MHz	14.4dB	20.4dB
1,2	✓	63.1dB @ 7.6MHz	36.8dB	26.3dB	42.1dB @ 98.8MHz	14.5dB	27.6dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.3dB @ 5.1MHz	40.3dB	20.0dB	35.5dB @ 99.0MHz	14.5dB	21.0dB
3,6	✓	34.7dB @ 87.8MHz	15.5dB	19.2dB	33.9dB @ 100.0MHz	14.4dB	19.5dB
5,4	✓	34.6dB @ 99.8MHz	14.4dB	20.2dB	34.6dB @ 100.0MHz	14.4dB	20.2dB
1,2	✓	62.5dB @ 8.4MHz	36.0dB	26.5dB	41.1dB @ 100.0MHz	14.4dB	26.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:50 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.0ft	Tot. Length: 20.0ft	Tot. Length: 0ft	Tot. Length: 0ft

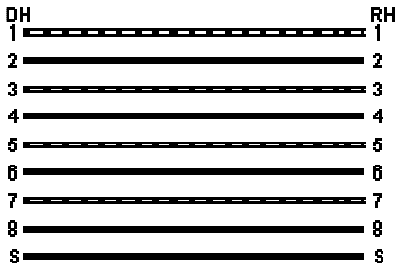
Pass

Test Name: S2 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:36:31
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

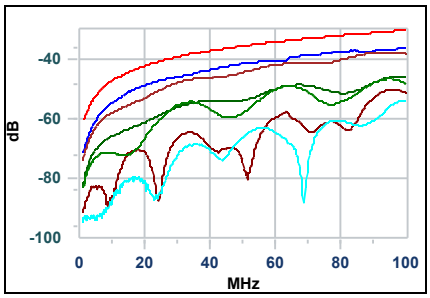


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.3 ft.	21.0 ft.	21.7 ft.	20.0 ft.	< 328.1 ft.	
Propagation Delay	28.6 ns	29.8 ns	30.6 ns	28.2 ns	< 555.0 ns	
Delay Skew	0.4 ns	1.6 ns	2.4 ns	0.0 ns	< 50.0 ns	
Headroom	64.9 dB					

NEXT: Pass

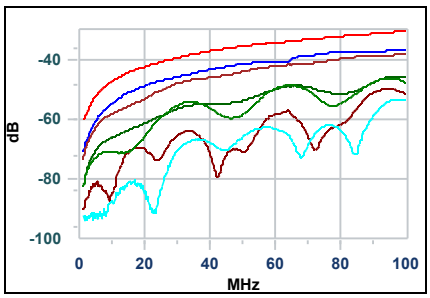
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	38.1dB @ 87.5MHz	31.1dB	7.0dB	37.8dB @ 94.5MHz	30.5dB	7.3dB
7,8-5,4	48.8dB @ 63.3MHz	33.5dB	15.3dB	46.5dB @ 96.0MHz	30.4dB	16.1dB
7,8-1,2	54.0dB @ 98.5MHz	30.2dB	23.8dB	54.0dB @ 100.0MHz	30.1dB	23.9dB
3,6-5,4	36.9dB @ 81.0MHz	31.7dB	5.2dB	36.1dB @ 100.0MHz	30.1dB	6.0dB
3,6-1,2	50.0dB @ 94.8MHz	30.5dB	19.5dB	49.9dB @ 96.0MHz	30.4dB	19.5dB
5,4-1,2	48.6dB @ 63.5MHz	33.5dB	15.1dB	45.6dB @ 99.0MHz	30.2dB	15.4dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	38.8dB @ 83.3MHz	31.5dB	7.3dB	37.9dB @ 100.0MHz	30.1dB	7.8dB
7,8-5,4	48.2dB @ 63.5MHz	33.5dB	14.7dB	45.9dB @ 95.8MHz	30.4dB	15.5dB
7,8-1,2	53.1dB @ 97.3MHz	30.3dB	22.8dB	53.1dB @ 97.8MHz	30.2dB	22.9dB
3,6-5,4	37.3dB @ 76.8MHz	32.1dB	5.2dB	36.3dB @ 100.0MHz	30.1dB	6.2dB
3,6-1,2	49.4dB @ 93.8MHz	30.6dB	18.8dB	49.3dB @ 94.5MHz	30.5dB	18.8dB
5,4-1,2	48.5dB @ 63.3MHz	33.5dB	15.0dB	45.3dB @ 97.8MHz	30.2dB	15.1dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:50 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

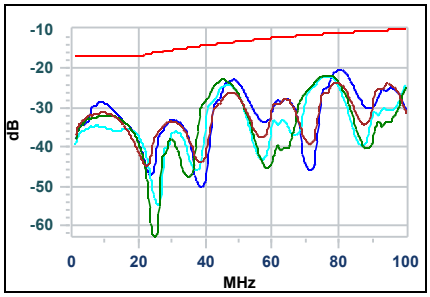
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:36:31
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

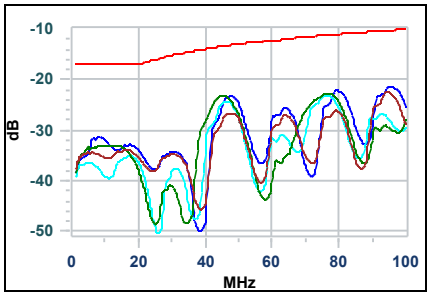
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	23.7dB @ 78.5MHz	11.1dB	12.6dB	23.7dB @ 79.8MHz	11.0dB	12.7dB
3,6	✓	22.9dB @ 45.3MHz	13.5dB	9.4dB	21.6dB @ 77.0MHz	11.1dB	10.5dB
5,4	✓	24.3dB @ 46.0MHz	13.4dB	10.9dB	22.1dB @ 77.0MHz	11.1dB	11.0dB
1,2	✓	20.4dB @ 79.8MHz	11.0dB	9.4dB	20.4dB @ 81.0MHz	10.9dB	9.5dB



RH

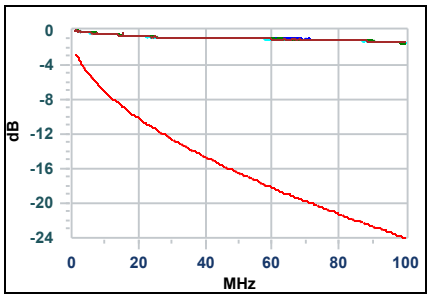
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	22.6dB @ 94.3MHz	10.3dB	12.3dB	22.6dB @ 94.8MHz	10.2dB	12.4dB
3,6	✓	23.1dB @ 45.0MHz	13.5dB	9.6dB	22.8dB @ 77.0MHz	11.1dB	11.7dB
5,4	✓	24.5dB @ 46.0MHz	13.4dB	11.1dB	23.2dB @ 76.8MHz	11.2dB	12.0dB
1,2	✓	23.4dB @ 47.3MHz	13.3dB	10.1dB	21.3dB @ 95.8MHz	10.2dB	11.1dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 100.0MHz	24.0dB	22.7dB
3,6	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
5,4	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 100.0MHz	24.0dB	22.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:50 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

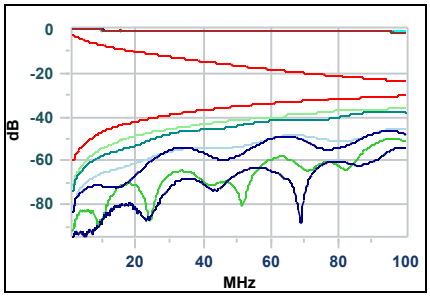
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:36:31
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

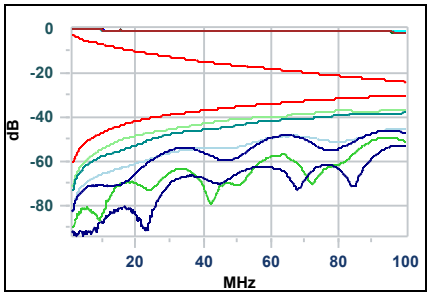
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.7dB @ 1.8MHz	56.4dB	14.3dB	36.5dB @ 90.3MHz	8.1dB	28.4dB
7,8-5,4	✓	77.3dB @ 2.4MHz	53.9dB	23.4dB	45.1dB @ 95.8MHz	7.0dB	38.1dB
7,8-1,2	✓	92.8dB @ 1.5MHz	57.0dB	35.8dB	52.7dB @ 98.5MHz	6.4dB	46.3dB
3,6-5,4	✓	68.9dB @ 1.8MHz	56.4dB	12.5dB	34.6dB @ 98.5MHz	6.4dB	28.2dB
3,6-1,2	✓	88.8dB @ 1.6MHz	57.0dB	31.8dB	48.6dB @ 95.5MHz	7.0dB	41.6dB
5,4-1,2	✓	72.6dB @ 3.3MHz	51.0dB	21.6dB	44.2dB @ 96.8MHz	6.7dB	37.5dB



RH

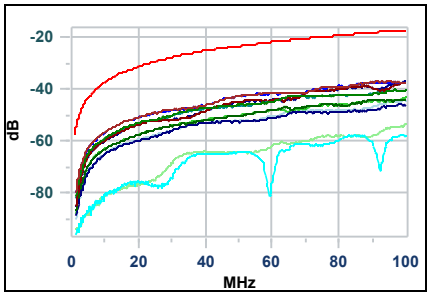
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	68.5dB @ 2.2MHz	54.5dB	14.0dB	36.4dB @ 99.3MHz	6.2dB	30.2dB
7,8-5,4	✓	78.8dB @ 1.9MHz	55.7dB	23.1dB	44.5dB @ 95.8MHz	7.0dB	37.5dB
7,8-1,2	✓	91.9dB @ 1.0MHz	57.0dB	34.9dB	51.8dB @ 97.3MHz	6.6dB	45.2dB
3,6-5,4	✓	68.5dB @ 1.8MHz	56.4dB	12.1dB	34.8dB @ 99.5MHz	6.2dB	28.6dB
3,6-1,2	✓	87.0dB @ 1.9MHz	55.7dB	31.3dB	48.0dB @ 94.3MHz	7.3dB	40.7dB
5,4-1,2	✓	72.8dB @ 3.4MHz	50.6dB	22.2dB	43.9dB @ 96.8MHz	6.7dB	37.2dB



ACR-F: Pass

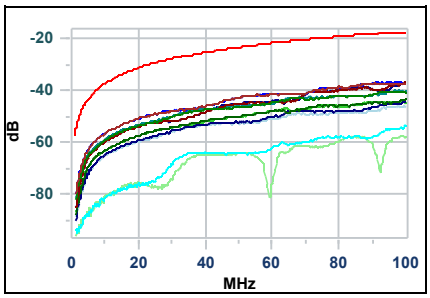
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	60.4dB @ 6.3MHz	41.5dB	18.9dB	37.2dB @ 97.8MHz	17.6dB	19.6dB
7,8-5,4	✓	62.8dB @ 6.1MHz	41.7dB	21.1dB	40.2dB @ 100.0MHz	17.4dB	22.8dB
7,8-1,2	✓	57.9dB @ 83.0MHz	19.0dB	38.9dB	57.8dB @ 98.8MHz	17.5dB	40.3dB
3,6-7,8	✓	37.5dB @ 88.3MHz	18.5dB	19.0dB	37.3dB @ 96.8MHz	17.7dB	19.6dB
3,6-5,4	✓	38.8dB @ 84.5MHz	18.9dB	19.9dB	37.4dB @ 100.0MHz	17.4dB	20.0dB
3,6-1,2	✓	66.6dB @ 6.4MHz	41.3dB	25.3dB	44.2dB @ 98.8MHz	17.5dB	26.7dB
5,4-7,8	✓	65.1dB @ 4.9MHz	43.6dB	21.5dB	40.3dB @ 96.8MHz	17.7dB	22.6dB
5,4-3,6	✓	37.1dB @ 99.3MHz	17.5dB	19.6dB	37.0dB @ 100.0MHz	17.4dB	19.6dB
5,4-1,2	✓	64.8dB @ 10.2MHz	37.3dB	27.5dB	46.1dB @ 99.5MHz	17.4dB	28.7dB
1,2-7,8	✓	53.5dB @ 99.8MHz	17.4dB	36.1dB	53.5dB @ 99.8MHz	17.4dB	36.1dB
1,2-3,6	✓	66.2dB @ 6.7MHz	40.9dB	25.3dB	43.1dB @ 100.0MHz	17.4dB	25.7dB
1,2-5,4	✓	45.1dB @ 94.8MHz	17.9dB	27.2dB	44.7dB @ 99.8MHz	17.4dB	27.3dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	37.5dB @ 88.3MHz	18.5dB	19.0dB	37.3dB @ 90.8MHz	18.2dB	19.1dB
7,8-5,4	✓	65.1dB @ 4.9MHz	43.6dB	21.5dB	40.4dB @ 96.8MHz	17.7dB	22.7dB
7,8-1,2	✓	53.5dB @ 99.8MHz	17.4dB	36.1dB	53.5dB @ 99.8MHz	17.4dB	36.1dB
3,6-7,8	✓	62.3dB @ 5.1MHz	43.3dB	19.0dB	37.1dB @ 97.8MHz	17.6dB	19.5dB
3,6-5,4	✓	37.0dB @ 99.3MHz	17.5dB	19.5dB	36.9dB @ 99.8MHz	17.4dB	19.5dB
3,6-1,2	✓	66.2dB @ 6.7MHz	40.9dB	25.3dB	42.9dB @ 100.0MHz	17.4dB	25.5dB
5,4-7,8	✓	64.8dB @ 4.9MHz	43.6dB	21.2dB	40.0dB @ 100.0MHz	17.4dB	22.6dB
5,4-3,6	✓	38.7dB @ 84.5MHz	18.9dB	19.8dB	37.4dB @ 100.0MHz	17.4dB	20.0dB
5,4-1,2	✓	44.8dB @ 96.5MHz	17.7dB	27.1dB	44.6dB @ 100.0MHz	17.4dB	27.2dB
1,2-7,8	✓	57.9dB @ 83.0MHz	19.0dB	38.9dB	57.8dB @ 98.8MHz	17.5dB	40.3dB
1,2-3,6	✓	66.6dB @ 6.4MHz	41.3dB	25.3dB	44.2dB @ 93.0MHz	18.0dB	26.2dB
1,2-5,4	✓	67.0dB @ 7.9MHz	39.4dB	27.6dB	46.2dB @ 99.5MHz	17.4dB	28.8dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:50 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

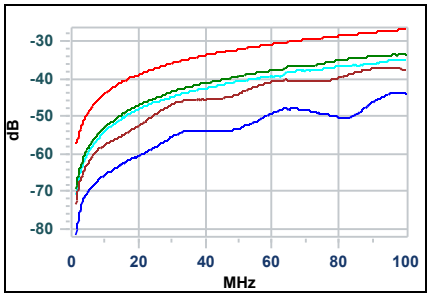
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:36:31
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

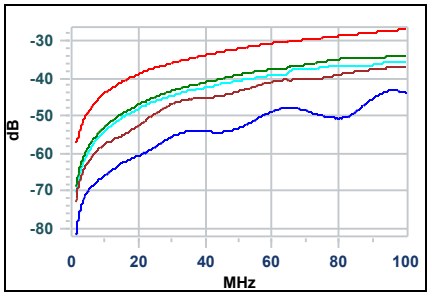
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	37.4dB @ 89.8MHz	27.9dB	9.5dB	37.2dB @ 96.8MHz	27.3dB	9.9dB
3,6	✓	34.7dB @ 83.3MHz	28.5dB	6.2dB	33.8dB @ 99.8MHz	27.1dB	6.7dB
5,4	✓	38.0dB @ 65.3MHz	30.3dB	7.7dB	35.3dB @ 99.5MHz	27.1dB	8.2dB
1,2	✓	43.9dB @ 95.5MHz	27.4dB	16.5dB	43.8dB @ 97.3MHz	27.3dB	16.5dB



RH

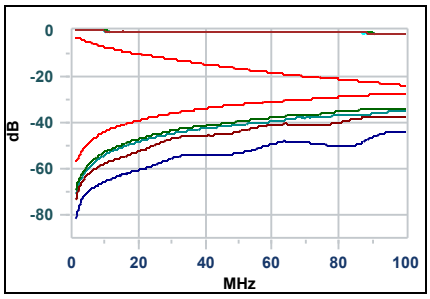
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	37.6dB @ 91.3MHz	27.8dB	9.8dB	37.2dB @ 99.3MHz	27.1dB	10.1dB
3,6	✓	34.9dB @ 79.8MHz	28.8dB	6.1dB	33.9dB @ 100.0MHz	27.1dB	6.8dB
5,4	✓	37.9dB @ 66.3MHz	30.2dB	7.7dB	35.5dB @ 100.0MHz	27.1dB	8.4dB
1,2	✓	43.5dB @ 95.0MHz	27.5dB	16.0dB	43.4dB @ 97.3MHz	27.3dB	16.1dB



PS ACR-N: Pass

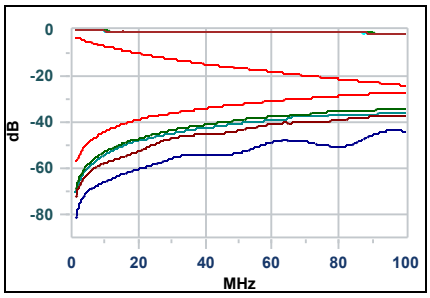
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	70.2dB @ 1.8MHz	53.4dB	16.8dB	35.9dB @ 92.0MHz	4.8dB	31.1dB
3,6	✓	66.6dB @ 1.8MHz	53.4dB	13.2dB	32.3dB @ 98.5MHz	3.4dB	28.9dB
5,4	✓	68.2dB @ 1.8MHz	53.4dB	14.8dB	33.9dB @ 96.0MHz	3.9dB	30.0dB
1,2	✓	72.2dB @ 3.3MHz	48.0dB	24.2dB	42.5dB @ 96.8MHz	3.7dB	38.8dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	67.9dB @ 2.2MHz	51.5dB	16.4dB	35.9dB @ 99.3MHz	3.2dB	32.7dB
3,6	✓	66.3dB @ 1.8MHz	53.4dB	12.9dB	32.4dB @ 99.3MHz	3.2dB	29.2dB
5,4	✓	67.9dB @ 1.8MHz	53.4dB	14.5dB	34.0dB @ 100.0MHz	3.1dB	30.9dB
1,2	✓	72.3dB @ 3.4MHz	47.6dB	24.7dB	42.1dB @ 95.8MHz	4.0dB	38.1dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:50 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

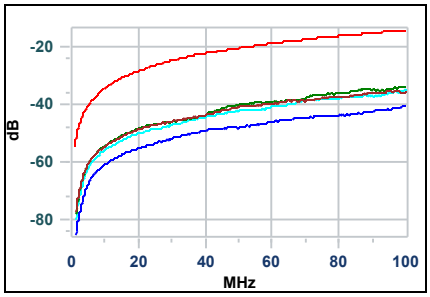
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:36:31
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

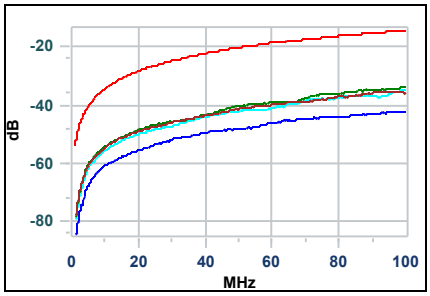
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.2dB @ 5.1MHz	40.3dB	19.9dB	35.4dB @ 97.8MHz	14.6dB	20.8dB
3,6	✓	34.6dB @ 88.5MHz	15.5dB	19.1dB	34.0dB @ 100.0MHz	14.4dB	19.6dB
5,4	✓	35.1dB @ 99.3MHz	14.5dB	20.6dB	35.0dB @ 99.8MHz	14.4dB	20.6dB
1,2	✓	63.0dB @ 7.6MHz	36.8dB	26.2dB	40.6dB @ 100.0MHz	14.4dB	26.2dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	59.7dB @ 5.5MHz	39.6dB	20.1dB	35.5dB @ 96.8MHz	14.7dB	20.8dB
3,6	✓	34.8dB @ 87.5MHz	15.6dB	19.2dB	33.6dB @ 100.0MHz	14.4dB	19.2dB
5,4	✓	38.0dB @ 71.0MHz	17.4dB	20.6dB	35.0dB @ 100.0MHz	14.4dB	20.6dB
1,2	✓	62.7dB @ 7.9MHz	36.4dB	26.3dB	42.1dB @ 99.0MHz	14.5dB	27.6dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:39 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.0ft	Tot. Length: 20.0ft	Tot. Length: 0ft	Tot. Length: 0ft

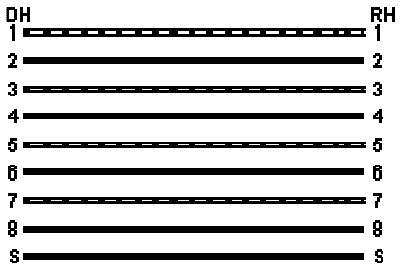
Pass

Test Name: S2 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 08:58:10
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

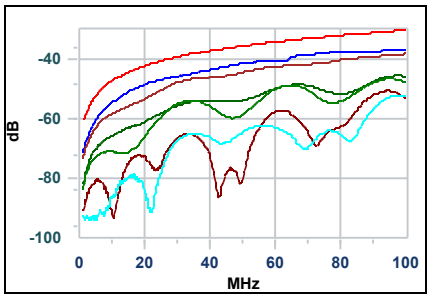


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.3 ft.	21.0 ft.	21.7 ft.	20.0 ft.	< 328.1 ft.	
Propagation Delay	28.8 ns	29.6 ns	30.4 ns	28.4 ns	< 555.0 ns	
Delay Skew	0.4 ns	1.2 ns	2.0 ns	0.0 ns	< 50.0 ns	
Headroom	58.9 dB					

NEXT: Pass

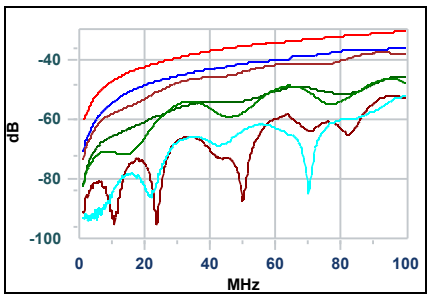
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	39.3dB @ 85.3MHz	31.3dB	8.0dB	38.1dB @ 100.0MHz	30.1dB	8.0dB
7,8-5,4	48.7dB @ 63.5MHz	33.5dB	15.2dB	46.4dB @ 96.3MHz	30.4dB	16.0dB
7,8-1,2	51.9dB @ 97.0MHz	30.3dB	21.6dB	51.9dB @ 98.5MHz	30.2dB	21.7dB
3,6-5,4	37.2dB @ 77.5MHz	32.0dB	5.2dB	36.2dB @ 100.0MHz	30.1dB	6.1dB
3,6-1,2	50.4dB @ 93.8MHz	30.6dB	19.8dB	50.4dB @ 95.0MHz	30.5dB	19.9dB
5,4-1,2	45.3dB @ 95.5MHz	30.4dB	14.9dB	45.2dB @ 98.8MHz	30.2dB	15.0dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	37.4dB @ 90.0MHz	30.9dB	6.5dB	37.4dB @ 95.0MHz	30.5dB	6.9dB
7,8-5,4	48.4dB @ 63.5MHz	33.5dB	14.9dB	46.1dB @ 96.0MHz	30.4dB	15.7dB
7,8-1,2	52.3dB @ 98.8MHz	30.2dB	22.1dB	52.2dB @ 100.0MHz	30.1dB	22.1dB
3,6-5,4	36.8dB @ 80.8MHz	31.7dB	5.1dB	36.0dB @ 100.0MHz	30.1dB	5.9dB
3,6-1,2	51.9dB @ 94.8MHz	30.5dB	21.4dB	51.9dB @ 96.5MHz	30.3dB	21.6dB
5,4-1,2	45.7dB @ 96.0MHz	30.4dB	15.3dB	45.6dB @ 99.3MHz	30.1dB	15.5dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:39 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

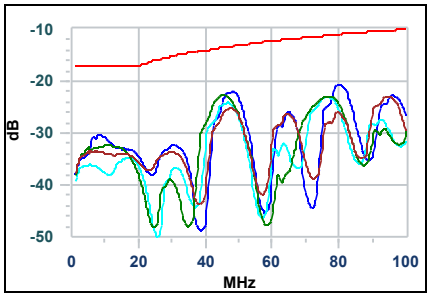
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 08:58:10
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

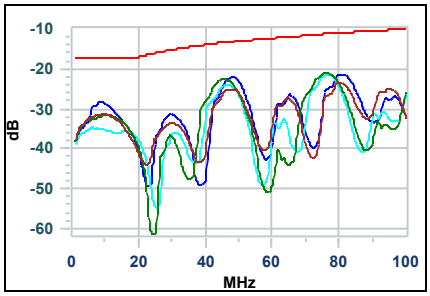
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	25.3dB @ 47.0MHz	13.3dB	12.0dB	22.8dB @ 95.0MHz	10.2dB	12.6dB
3,6	✓	22.6dB @ 45.3MHz	13.5dB	9.1dB	22.6dB @ 45.8MHz	13.4dB	9.2dB
5,4	✓	24.3dB @ 46.0MHz	13.4dB	10.9dB	23.1dB @ 77.3MHz	11.1dB	12.0dB
1,2	✓	22.1dB @ 47.3MHz	13.3dB	8.8dB	20.9dB @ 80.8MHz	10.9dB	10.0dB



RH

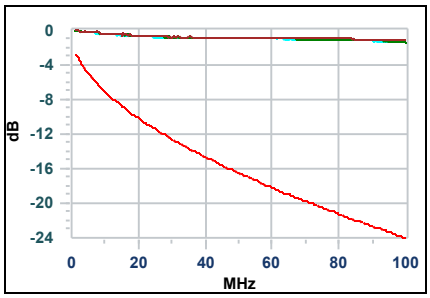
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	25.3dB @ 47.3MHz	13.3dB	12.0dB	23.5dB @ 80.5MHz	11.0dB	12.5dB
3,6	✓	22.5dB @ 45.3MHz	13.5dB	9.0dB	21.1dB @ 76.8MHz	11.2dB	9.9dB
5,4	✓	21.5dB @ 76.5MHz	11.2dB	10.3dB	21.5dB @ 77.0MHz	11.1dB	10.4dB
1,2	✓	22.0dB @ 48.5MHz	13.2dB	8.8dB	21.5dB @ 81.5MHz	10.9dB	10.6dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.2dB @ 100.0MHz	24.0dB	22.8dB
3,6	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
5,4	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.4dB @ 100.0MHz	24.0dB	22.6dB
1,2	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.3dB @ 95.0MHz	23.3dB	22.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:39 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

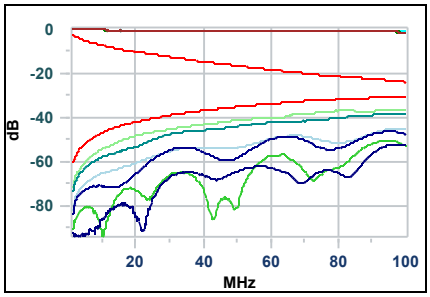
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 08:58:10
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

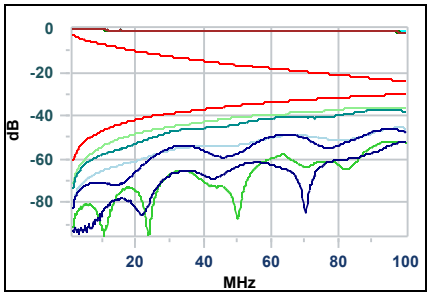
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.7dB @ 1.8MHz	56.4dB	14.3dB	36.6dB @ 100.0MHz	6.1dB	30.5dB
7,8-5,4	✓	77.8dB @ 2.2MHz	54.5dB	23.3dB	45.1dB @ 94.3MHz	7.3dB	37.8dB
7,8-1,2	✓	92.4dB @ 1.0MHz	57.0dB	35.4dB	50.7dB @ 97.0MHz	6.7dB	44.0dB
3,6-5,4	✓	69.4dB @ 1.6MHz	57.0dB	12.4dB	34.7dB @ 100.0MHz	6.1dB	28.6dB
3,6-1,2	✓	86.9dB @ 1.8MHz	56.4dB	30.5dB	49.1dB @ 94.3MHz	7.3dB	41.8dB
5,4-1,2	✓	74.6dB @ 2.7MHz	52.9dB	21.7dB	43.8dB @ 97.3MHz	6.6dB	37.2dB



RH

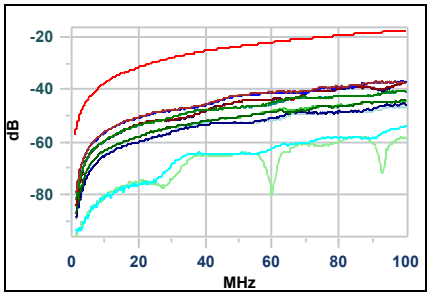
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	70.4dB @ 1.8MHz	56.4dB	14.0dB	36.1dB @ 93.5MHz	7.5dB	28.6dB
7,8-5,4	✓	79.1dB @ 1.8MHz	56.4dB	22.7dB	44.8dB @ 94.5MHz	7.2dB	37.6dB
7,8-1,2	✓	92.7dB @ 1.5MHz	57.0dB	35.7dB	51.0dB @ 99.8MHz	6.1dB	44.9dB
3,6-5,4	✓	69.0dB @ 1.6MHz	57.0dB	12.0dB	34.5dB @ 100.0MHz	6.1dB	28.4dB
3,6-1,2	✓	85.2dB @ 2.2MHz	54.5dB	30.7dB	50.6dB @ 94.8MHz	7.2dB	43.4dB
5,4-1,2	✓	73.5dB @ 3.0MHz	51.9dB	21.6dB	44.2dB @ 97.3MHz	6.6dB	37.6dB



ACR-F: Pass

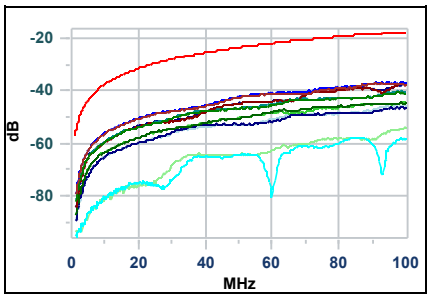
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	41.8dB @ 50.8MHz	23.3dB	18.5dB	36.9dB @ 99.0MHz	17.5dB	19.4dB
7,8-5,4	✓	64.7dB @ 5.1MHz	43.3dB	21.4dB	40.2dB @ 98.8MHz	17.5dB	22.7dB
7,8-1,2	✓	93.2dB @ 1.0MHz	57.4dB	35.8dB	53.7dB @ 99.8MHz	17.4dB	36.3dB
3,6-7,8	✓	61.8dB @ 5.2MHz	43.1dB	18.7dB	37.0dB @ 98.8MHz	17.5dB	19.5dB
3,6-5,4	✓	36.9dB @ 100.0MHz	17.4dB	19.5dB	36.9dB @ 100.0MHz	17.4dB	19.5dB
3,6-1,2	✓	66.9dB @ 6.3MHz	41.5dB	25.4dB	43.7dB @ 100.0MHz	17.4dB	26.3dB
5,4-7,8	✓	64.0dB @ 5.5MHz	42.6dB	21.4dB	40.5dB @ 99.0MHz	17.5dB	23.0dB
5,4-3,6	✓	36.9dB @ 100.0MHz	17.4dB	19.5dB	36.9dB @ 100.0MHz	17.4dB	19.5dB
5,4-1,2	✓	48.4dB @ 66.3MHz	21.0dB	27.4dB	45.1dB @ 99.3MHz	17.5dB	27.6dB
1,2-7,8	✓	95.0dB @ 1.0MHz	57.4dB	37.6dB	57.7dB @ 87.0MHz	18.6dB	39.1dB
1,2-3,6	✓	66.0dB @ 6.9MHz	40.7dB	25.3dB	44.3dB @ 100.0MHz	17.4dB	26.9dB
1,2-5,4	✓	66.0dB @ 8.7MHz	38.7dB	27.3dB	46.4dB @ 98.3MHz	17.6dB	28.8dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	✓	61.8dB @ 5.2MHz	43.1dB	18.7dB	37.1dB @ 92.8MHz	18.1dB	19.0dB
7,8-5,4	✓	64.1dB @ 5.5MHz	42.6dB	21.5dB	40.7dB @ 99.0MHz	17.5dB	23.2dB
7,8-1,2	✓	95.1dB @ 1.0MHz	57.4dB	37.7dB	57.7dB @ 87.0MHz	18.6dB	39.1dB
3,6-7,8	✓	41.8dB @ 50.8MHz	23.3dB	18.5dB	36.7dB @ 99.0MHz	17.5dB	19.2dB
3,6-5,4	✓	36.8dB @ 100.0MHz	17.4dB	19.4dB	36.8dB @ 100.0MHz	17.4dB	19.4dB
3,6-1,2	✓	66.0dB @ 6.9MHz	40.7dB	25.3dB	44.0dB @ 100.0MHz	17.4dB	26.6dB
5,4-7,8	✓	64.6dB @ 5.1MHz	43.3dB	21.3dB	40.0dB @ 98.8MHz	17.5dB	22.5dB
5,4-3,6	✓	37.0dB @ 99.8MHz	17.4dB	19.6dB	37.0dB @ 100.0MHz	17.4dB	19.6dB
5,4-1,2	✓	67.1dB @ 7.6MHz	39.8dB	27.3dB	46.3dB @ 98.3MHz	17.6dB	28.7dB
1,2-7,8	✓	93.1dB @ 1.0MHz	57.4dB	35.7dB	53.7dB @ 99.8MHz	17.4dB	36.3dB
1,2-3,6	✓	66.9dB @ 6.3MHz	41.5dB	25.4dB	44.0dB @ 100.0MHz	17.4dB	26.6dB
1,2-5,4	✓	66.2dB @ 8.7MHz	38.7dB	27.5dB	45.3dB @ 99.3MHz	17.5dB	27.8dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:39 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

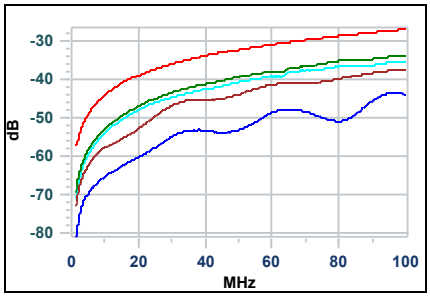
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 08:58:10
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

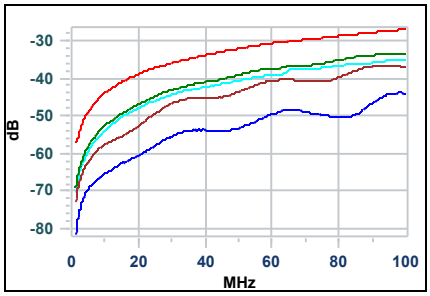
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	37.9dB @ 92.3MHz	27.7dB	10.2dB	37.4dB @ 99.8MHz	27.1dB	10.3dB
3,6	✓	35.1dB @ 81.0MHz	28.7dB	6.4dB	33.9dB @ 100.0MHz	27.1dB	6.8dB
5,4	✓	37.9dB @ 66.0MHz	30.2dB	7.7dB	35.4dB @ 100.0MHz	27.1dB	8.3dB
1,2	✓	43.6dB @ 94.8MHz	27.5dB	16.1dB	43.4dB @ 97.0MHz	27.3dB	16.1dB



RH

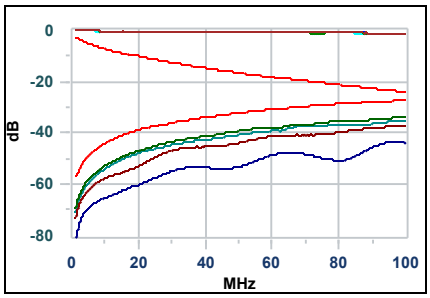
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	36.9dB @ 90.0MHz	27.9dB	9.0dB	36.7dB @ 95.0MHz	27.5dB	9.2dB
3,6	✓	34.3dB @ 85.0MHz	28.3dB	6.0dB	33.6dB @ 98.8MHz	27.2dB	6.4dB
5,4	✓	37.8dB @ 65.3MHz	30.3dB	7.5dB	35.2dB @ 99.8MHz	27.1dB	8.1dB
1,2	✓	44.1dB @ 96.3MHz	27.4dB	16.7dB	44.0dB @ 99.0MHz	27.2dB	16.8dB



PS ACR-N: Pass

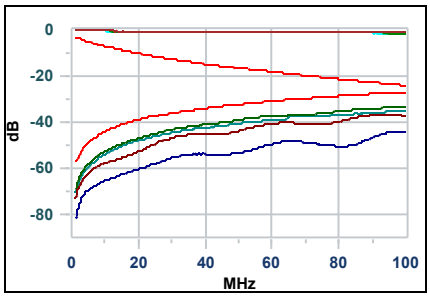
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	70.2dB @ 1.8MHz	53.4dB	16.8dB	36.2dB @ 99.5MHz	3.2dB	33.0dB
3,6	✓	66.6dB @ 1.8MHz	53.4dB	13.2dB	32.4dB @ 100.0MHz	3.1dB	29.3dB
5,4	✓	68.7dB @ 1.6MHz	54.0dB	14.7dB	34.0dB @ 97.5MHz	3.6dB	30.4dB
1,2	✓	74.1dB @ 2.7MHz	49.9dB	24.2dB	42.2dB @ 96.5MHz	3.8dB	38.4dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	66.8dB @ 2.5MHz	50.4dB	16.4dB	35.5dB @ 94.3MHz	4.3dB	31.2dB
3,6	✓	63.2dB @ 2.5MHz	50.4dB	12.8dB	32.2dB @ 98.0MHz	3.5dB	28.7dB
5,4	✓	64.6dB @ 2.5MHz	50.4dB	14.2dB	33.8dB @ 97.3MHz	3.6dB	30.2dB
1,2	✓	75.6dB @ 2.2MHz	51.5dB	24.1dB	42.8dB @ 97.5MHz	3.6dB	39.2dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:39 AM
Version: 1.3.2

Pass

Test Name: S2 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 08:58:10
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

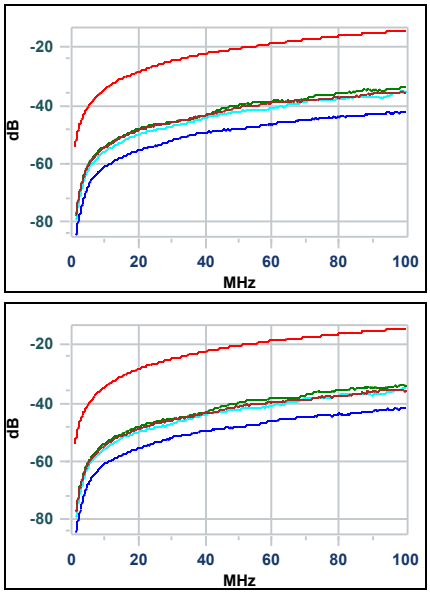
PS ACR-F: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	59.8dB @ 5.2MHz	40.1dB	19.7dB	35.1dB @ 98.8MHz	14.5dB	20.6dB
3,6	✓	34.5dB @ 88.0MHz	15.5dB	19.0dB	33.5dB @ 100.0MHz	14.4dB	19.1dB
5,4	✓	35.1dB @ 98.8MHz	14.5dB	20.6dB	35.0dB @ 100.0MHz	14.4dB	20.6dB
1,2	✓	63.9dB @ 6.9MHz	37.7dB	26.2dB	42.2dB @ 100.0MHz	14.4dB	27.8dB

RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	60.0dB @ 5.2MHz	40.1dB	19.9dB	35.5dB @ 98.8MHz	14.5dB	21.0dB
3,6	✓	36.0dB @ 74.0MHz	17.0dB	19.0dB	33.4dB @ 100.0MHz	14.4dB	19.0dB
5,4	✓	35.1dB @ 99.3MHz	14.5dB	20.6dB	35.0dB @ 100.0MHz	14.4dB	20.6dB
1,2	✓	62.1dB @ 8.7MHz	35.7dB	26.4dB	41.4dB @ 99.8MHz	14.4dB	27.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:47 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.7ft	Tot. Length: 20.7ft	Tot. Length: 0ft	Tot. Length: 0ft

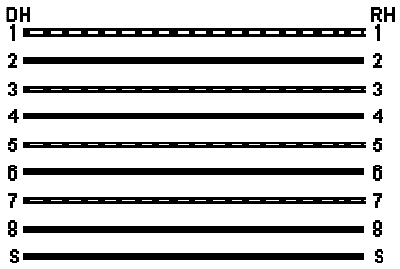
Pass

Test Name: S3 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 12:00:56
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

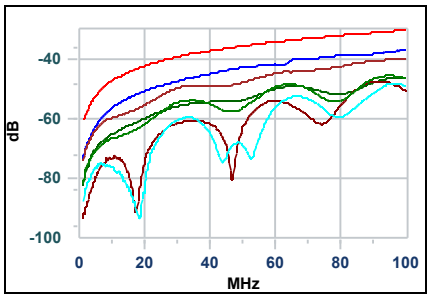


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	21.0 ft.	22.0 ft.	22.0 ft.	20.7 ft.	< 328.1 ft.	
Propagation Delay	29.6 ns	30.8 ns	31.0 ns	29.2 ns	< 555.0 ns	
Delay Skew	0.4 ns	1.6 ns	1.8 ns	0.0 ns	< 50.0 ns	
Headroom	57.3 dB					

NEXT: Pass

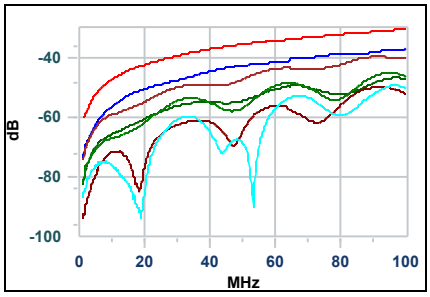
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	39.5dB @ 98.5MHz	30.2dB	9.3dB	39.5dB @ 100.0MHz	30.1dB	9.4dB
7,8-5,4	45.2dB @ 93.8MHz	30.6dB	14.6dB	45.2dB @ 96.5MHz	30.3dB	14.9dB
7,8-1,2	47.9dB @ 96.0MHz	30.4dB	17.5dB	47.9dB @ 97.3MHz	30.3dB	17.6dB
3,6-5,4	36.9dB @ 96.3MHz	30.4dB	6.5dB	36.8dB @ 100.0MHz	30.1dB	6.7dB
3,6-1,2	47.3dB @ 91.3MHz	30.8dB	16.5dB	47.3dB @ 92.5MHz	30.7dB	16.6dB
5,4-1,2	49.1dB @ 62.8MHz	33.6dB	15.5dB	46.1dB @ 97.3MHz	30.3dB	15.8dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	39.5dB @ 87.8MHz	31.1dB	8.4dB	39.2dB @ 91.8MHz	30.7dB	8.5dB
7,8-5,4	45.0dB @ 93.3MHz	30.6dB	14.4dB	44.9dB @ 96.3MHz	30.4dB	14.5dB
7,8-1,2	49.0dB @ 96.3MHz	30.4dB	18.6dB	49.0dB @ 97.3MHz	30.3dB	18.7dB
3,6-5,4	39.8dB @ 65.3MHz	33.3dB	6.5dB	36.8dB @ 100.0MHz	30.1dB	6.7dB
3,6-1,2	49.4dB @ 91.0MHz	30.8dB	18.6dB	49.4dB @ 93.8MHz	30.6dB	18.8dB
5,4-1,2	49.2dB @ 63.3MHz	33.5dB	15.7dB	46.5dB @ 98.0MHz	30.2dB	16.3dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:47 AM
Version: 1.3.2

Pass

Test Name: S3 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

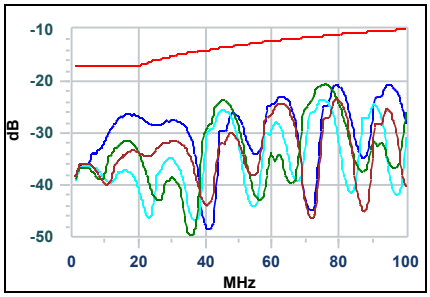
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 12:00:56
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

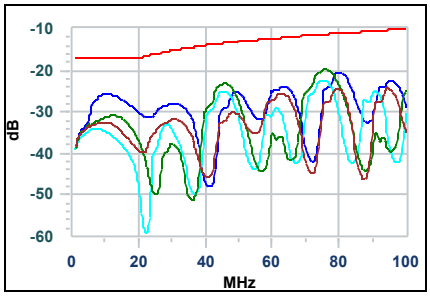
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	24.3dB @ 62.3MHz	12.1dB	12.2dB	23.4dB @ 79.0MHz	11.0dB	12.4dB
3,6	✓	20.5dB @ 76.0MHz	11.2dB	9.3dB	20.5dB @ 76.0MHz	11.2dB	9.3dB
5,4	✓	25.7dB @ 44.8MHz	13.5dB	12.2dB	23.6dB @ 75.5MHz	11.2dB	12.4dB
1,2	✓	26.3dB @ 16.5MHz	17.0dB	9.3dB	20.7dB @ 95.0MHz	10.2dB	10.5dB



RH

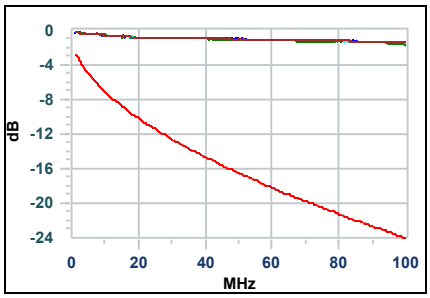
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	24.3dB @ 79.0MHz	11.0dB	13.3dB	24.1dB @ 94.5MHz	10.3dB	13.8dB
3,6	✓	19.8dB @ 76.0MHz	11.2dB	8.6dB	19.8dB @ 76.3MHz	11.2dB	8.6dB
5,4	✓	22.4dB @ 74.5MHz	11.3dB	11.1dB	22.4dB @ 75.8MHz	11.2dB	11.2dB
1,2	✓	25.7dB @ 9.9MHz	17.0dB	8.7dB	20.5dB @ 80.5MHz	11.0dB	9.5dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB
3,6	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.7dB @ 100.0MHz	24.0dB	22.3dB
5,4	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.3dB @ 1.9MHz	3.1dB	2.8dB	1.4dB @ 100.0MHz	24.0dB	22.6dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:47 AM
Version: 1.3.2

Pass

Test Name: S3 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

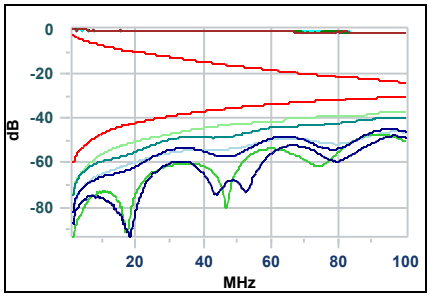
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 12:00:56
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

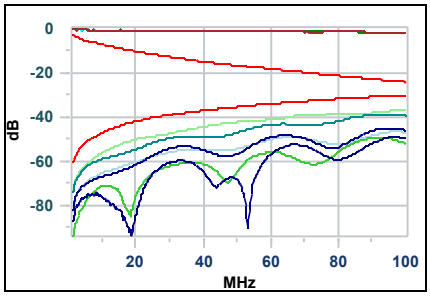
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	68.0dB @ 2.5MHz	53.4dB	14.6dB	37.8dB @ 99.8MHz	6.1dB	31.7dB
7,8-5,4	76.6dB @ 2.1MHz	55.1dB	21.5dB	43.7dB @ 95.8MHz	7.0dB	36.7dB
7,8-1,2	82.9dB @ 1.9MHz	55.7dB	27.2dB	46.5dB @ 96.0MHz	6.9dB	39.6dB
3,6-5,4	70.9dB @ 1.6MHz	57.0dB	13.9dB	35.1dB @ 99.8MHz	6.1dB	29.0dB
3,6-1,2	72.4dB @ 8.5MHz	41.7dB	30.7dB	45.9dB @ 91.3MHz	8.0dB	37.9dB
5,4-1,2	71.9dB @ 3.6MHz	50.2dB	21.7dB	44.6dB @ 97.0MHz	6.7dB	37.9dB



RH

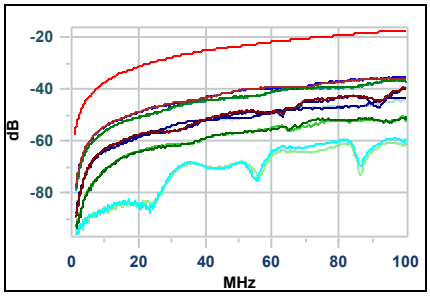
Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	67.6dB @ 2.5MHz	53.4dB	14.2dB	37.8dB @ 90.5MHz	8.1dB	29.7dB
7,8-5,4	76.0dB @ 2.1MHz	55.1dB	20.9dB	43.4dB @ 95.8MHz	7.0dB	36.4dB
7,8-1,2	79.7dB @ 2.5MHz	53.4dB	26.3dB	47.6dB @ 96.3MHz	6.9dB	40.7dB
3,6-5,4	67.0dB @ 2.5MHz	53.4dB	13.6dB	35.1dB @ 99.8MHz	6.1dB	29.0dB
3,6-1,2	72.1dB @ 8.4MHz	41.8dB	30.3dB	48.0dB @ 91.0MHz	8.0dB	40.0dB
5,4-1,2	71.8dB @ 3.6MHz	50.2dB	21.6dB	45.0dB @ 96.0MHz	6.9dB	38.1dB



ACR-F: Pass

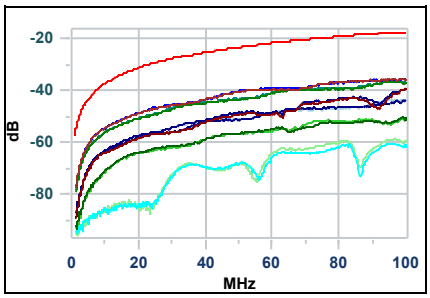
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	40.1dB @ 50.8MHz	23.3dB	16.8dB	35.8dB @ 95.0MHz	17.8dB	18.0dB
7,8-5,4	61.3dB @ 5.4MHz	42.8dB	18.5dB	36.6dB @ 97.8MHz	17.6dB	19.0dB
7,8-1,2	95.9dB @ 1.0MHz	57.4dB	38.5dB	58.8dB @ 96.8MHz	17.7dB	41.1dB
3,6-7,8	58.9dB @ 6.0MHz	41.9dB	17.0dB	35.5dB @ 100.0MHz	17.4dB	18.1dB
3,6-5,4	39.2dB @ 99.8MHz	17.4dB	21.8dB	39.2dB @ 99.8MHz	17.4dB	21.8dB
3,6-1,2	51.5dB @ 73.5MHz	20.1dB	31.4dB	50.4dB @ 100.0MHz	17.4dB	33.0dB
5,4-7,8	61.8dB @ 5.2MHz	43.1dB	18.7dB	36.6dB @ 97.3MHz	17.6dB	19.0dB
5,4-3,6	39.7dB @ 99.8MHz	17.4dB	22.3dB	39.7dB @ 99.8MHz	17.4dB	22.3dB
5,4-1,2	43.4dB @ 96.0MHz	17.8dB	25.6dB	43.3dB @ 96.5MHz	17.7dB	25.6dB
1,2-7,8	94.2dB @ 1.0MHz	57.4dB	36.8dB	60.4dB @ 96.5MHz	17.7dB	42.7dB
1,2-3,6	65.7dB @ 15.9MHz	33.4dB	32.3dB	50.3dB @ 99.3MHz	17.5dB	32.8dB
1,2-5,4	66.5dB @ 7.0MHz	40.5dB	26.0dB	43.9dB @ 100.0MHz	17.4dB	26.5dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	58.8dB @ 6.0MHz	41.9dB	16.9dB	35.6dB @ 97.0MHz	17.7dB	17.9dB
7,8-5,4	61.8dB @ 5.2MHz	43.1dB	18.7dB	36.7dB @ 97.3MHz	17.6dB	19.1dB
7,8-1,2	94.3dB @ 1.0MHz	57.4dB	36.9dB	60.4dB @ 96.5MHz	17.7dB	42.7dB
3,6-7,8	40.1dB @ 50.8MHz	23.3dB	16.8dB	35.7dB @ 99.5MHz	17.4dB	18.3dB
3,6-5,4	39.5dB @ 99.8MHz	17.4dB	22.1dB	39.5dB @ 99.8MHz	17.4dB	22.1dB
3,6-1,2	67.2dB @ 13.5MHz	34.8dB	32.4dB	50.1dB @ 99.3MHz	17.5dB	32.6dB
5,4-7,8	61.3dB @ 5.4MHz	42.8dB	18.5dB	36.5dB @ 97.8MHz	17.6dB	18.9dB
5,4-3,6	39.4dB @ 99.8MHz	17.4dB	22.0dB	39.4dB @ 99.8MHz	17.4dB	22.0dB
5,4-1,2	66.5dB @ 7.0MHz	40.5dB	26.0dB	43.8dB @ 100.0MHz	17.4dB	26.4dB
1,2-7,8	95.8dB @ 1.0MHz	57.4dB	38.4dB	58.8dB @ 96.8MHz	17.7dB	41.1dB
1,2-3,6	51.7dB @ 73.5MHz	20.1dB	31.6dB	50.7dB @ 100.0MHz	17.4dB	33.3dB
1,2-5,4	43.5dB @ 96.0MHz	17.8dB	25.7dB	43.4dB @ 96.5MHz	17.7dB	25.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:47 AM
Version: 1.3.2

Pass

Test Name: S3 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

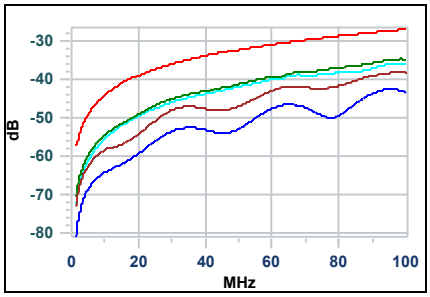
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 12:00:56
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

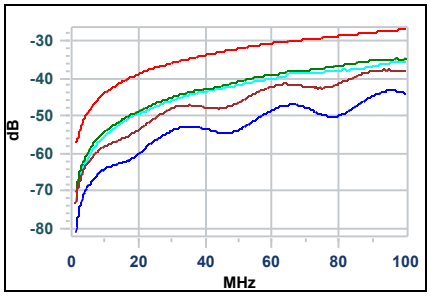
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.4dB @ 93.8MHz	27.6dB	10.8dB	38.1dB @ 99.0MHz	27.2dB	10.9dB
3,6	✓	35.1dB @ 93.8MHz	27.6dB	7.5dB	34.7dB @ 98.8MHz	27.2dB	7.5dB
5,4	✓	35.8dB @ 96.3MHz	27.4dB	8.4dB	35.8dB @ 99.0MHz	27.2dB	8.6dB
1,2	✓	42.5dB @ 95.0MHz	27.5dB	15.0dB	42.5dB @ 96.3MHz	27.4dB	15.1dB



RH

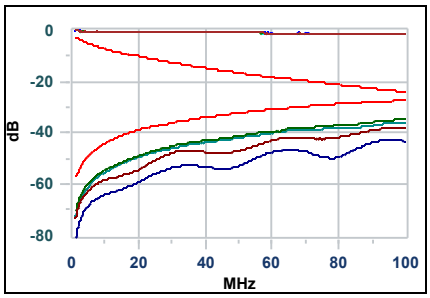
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.0dB @ 91.3MHz	27.8dB	10.2dB	37.9dB @ 95.3MHz	27.4dB	10.5dB
3,6	✓	35.0dB @ 92.5MHz	27.7dB	7.3dB	34.8dB @ 99.8MHz	27.1dB	7.7dB
5,4	✓	38.7dB @ 65.3MHz	30.3dB	8.4dB	35.9dB @ 100.0MHz	27.1dB	8.8dB
1,2	✓	43.5dB @ 94.5MHz	27.5dB	16.0dB	43.5dB @ 97.0MHz	27.3dB	16.2dB



PS ACR-N: Pass

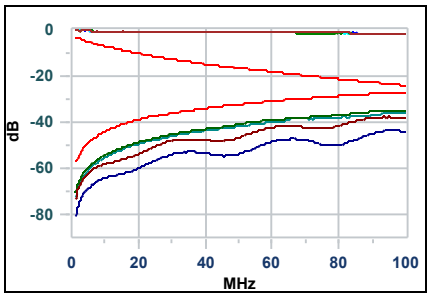
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	67.0dB @ 2.5MHz	50.4dB	16.6dB	36.7dB @ 96.8MHz	3.7dB	33.0dB
3,6	✓	64.6dB @ 2.5MHz	50.4dB	14.2dB	33.1dB @ 98.5MHz	3.4dB	29.7dB
5,4	✓	69.1dB @ 1.8MHz	53.4dB	15.7dB	34.3dB @ 96.3MHz	3.9dB	30.4dB
1,2	✓	69.9dB @ 3.9MHz	46.4dB	23.5dB	41.1dB @ 95.0MHz	4.2dB	36.9dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	66.6dB @ 2.5MHz	50.4dB	16.2dB	36.5dB @ 93.3MHz	4.5dB	32.0dB
3,6	✓	64.2dB @ 2.5MHz	50.4dB	13.8dB	33.1dB @ 99.8MHz	3.1dB	30.0dB
5,4	✓	65.8dB @ 2.5MHz	50.4dB	15.4dB	34.4dB @ 95.8MHz	4.0dB	30.4dB
1,2	✓	73.7dB @ 2.5MHz	50.4dB	23.3dB	42.1dB @ 94.5MHz	4.2dB	37.9dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:47 AM
Version: 1.3.2

Pass

Test Name: S3 PRE THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

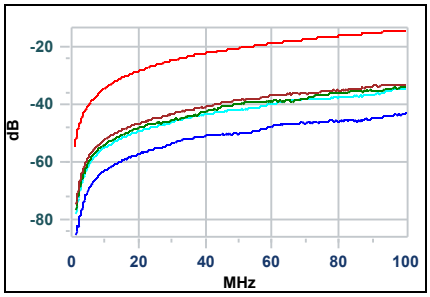
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/19/2014
Test Time: 12:00:56
Operator: Tesfu Yohannes
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

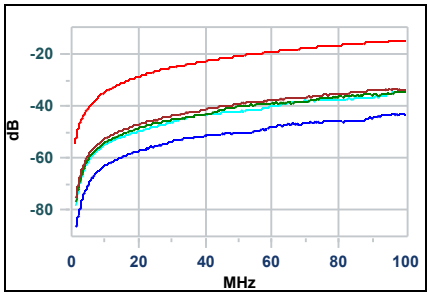
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	57.7dB @ 5.2MHz	40.1dB	17.6dB	33.2dB @ 97.0MHz	14.7dB	18.5dB
3,6	✓	58.3dB @ 6.0MHz	38.9dB	19.4dB	33.8dB @ 100.0MHz	14.4dB	19.4dB
5,4	✓	34.8dB @ 96.5MHz	14.7dB	20.1dB	34.6dB @ 99.8MHz	14.4dB	20.2dB
1,2	✓	51.8dB @ 34.8MHz	23.6dB	28.2dB	43.0dB @ 100.0MHz	14.4dB	28.6dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	56.6dB @ 6.0MHz	38.9dB	17.7dB	33.2dB @ 97.3MHz	14.6dB	18.6dB
3,6	✓	39.5dB @ 50.8MHz	20.3dB	19.2dB	34.1dB @ 99.8MHz	14.4dB	19.7dB
5,4	✓	34.5dB @ 97.0MHz	14.7dB	19.8dB	34.4dB @ 99.8MHz	14.4dB	20.0dB
1,2	✓	42.7dB @ 96.5MHz	14.7dB	28.0dB	42.7dB @ 96.5MHz	14.7dB	28.0dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:51 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.0ft	Tot. Length: 20.0ft	Tot. Length: 0ft	Tot. Length: 0ft

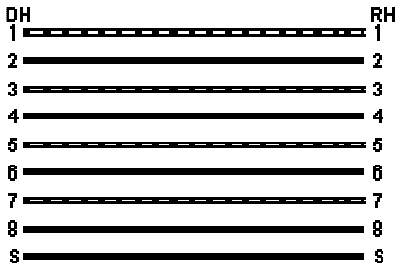
Pass

Test Name: S3 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:41:20
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

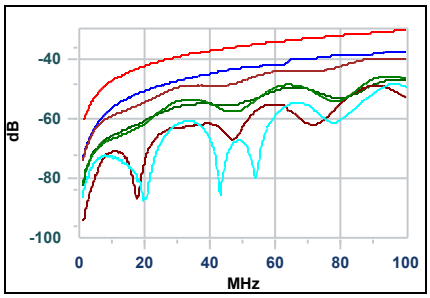


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	20.7 ft.	21.3 ft.	21.7 ft.	20.0 ft.	< 328.1 ft.	
Propagation Delay	29.0 ns	30.2 ns	30.6 ns	28.2 ns	< 555.0 ns	
Delay Skew	0.8 ns	2.0 ns	2.4 ns	0.0 ns	< 50.0 ns	
Headroom	63.3 dB					

NEXT: Pass

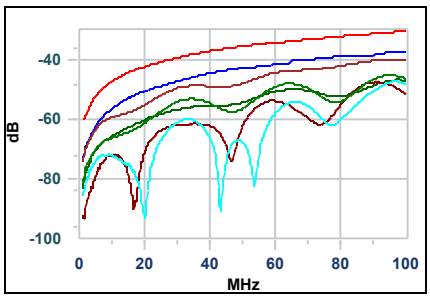
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	39.7dB @ 88.8MHz	31.0dB	8.7dB	39.5dB @ 91.8MHz	30.7dB	8.8dB
7,8-5,4	48.3dB @ 63.5MHz	33.5dB	14.8dB	45.3dB @ 95.8MHz	30.4dB	14.9dB
7,8-1,2	48.2dB @ 95.8MHz	30.4dB	17.8dB	48.2dB @ 97.5MHz	30.3dB	17.9dB
3,6-5,4	40.0dB @ 64.5MHz	33.4dB	6.6dB	37.0dB @ 100.0MHz	30.1dB	6.9dB
3,6-1,2	48.9dB @ 89.0MHz	31.0dB	17.9dB	48.7dB @ 91.5MHz	30.7dB	18.0dB
5,4-1,2	49.3dB @ 63.3MHz	33.5dB	15.8dB	46.6dB @ 98.0MHz	30.2dB	16.4dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	40.2dB @ 87.8MHz	31.1dB	9.1dB	39.4dB @ 100.0MHz	30.1dB	9.3dB
7,8-5,4	47.8dB @ 62.8MHz	33.6dB	14.2dB	45.0dB @ 96.5MHz	30.3dB	14.7dB
7,8-1,2	47.1dB @ 95.8MHz	30.4dB	16.7dB	47.0dB @ 96.8MHz	30.3dB	16.7dB
3,6-5,4	39.7dB @ 66.3MHz	33.2dB	6.5dB	36.9dB @ 100.0MHz	30.1dB	6.8dB
3,6-1,2	47.2dB @ 89.8MHz	30.9dB	16.3dB	47.1dB @ 91.5MHz	30.7dB	16.4dB
5,4-1,2	49.8dB @ 62.8MHz	33.6dB	16.2dB	46.5dB @ 98.5MHz	30.2dB	16.3dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:51 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

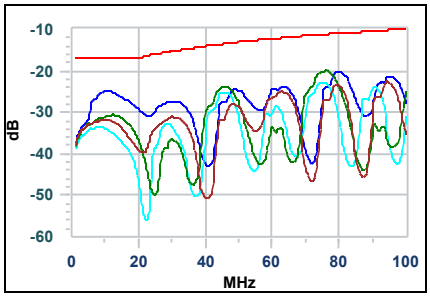
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:41:20
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

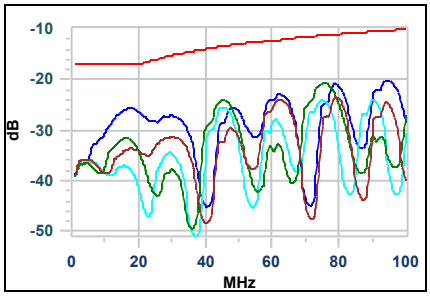
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	23.2dB @ 79.0MHz	11.0dB	12.2dB	22.6dB @ 94.5MHz	10.3dB	12.3dB
3,6	✓	19.9dB @ 76.0MHz	11.2dB	8.7dB	19.9dB @ 76.5MHz	11.2dB	8.7dB
5,4	✓	22.8dB @ 74.5MHz	11.3dB	11.5dB	22.8dB @ 75.5MHz	11.2dB	11.6dB
1,2	✓	24.9dB @ 9.9MHz	17.0dB	7.9dB	20.2dB @ 80.3MHz	11.0dB	9.2dB



RH

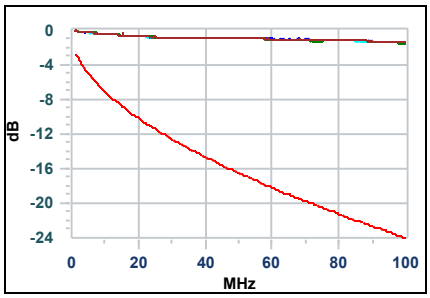
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	24.2dB @ 61.8MHz	12.1dB	12.1dB	23.4dB @ 79.0MHz	11.0dB	12.4dB
3,6	✓	20.8dB @ 75.0MHz	11.3dB	9.5dB	20.7dB @ 76.3MHz	11.2dB	9.5dB
5,4	✓	25.5dB @ 45.0MHz	13.5dB	12.0dB	23.9dB @ 90.3MHz	10.5dB	13.4dB
1,2	✓	25.6dB @ 17.4MHz	17.0dB	8.6dB	20.1dB @ 94.8MHz	10.2dB	9.9dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 100.0MHz	24.0dB	22.7dB
3,6	✓	0.1dB @ 1.9MHz	3.1dB	3.0dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.3dB @ 100.0MHz	24.0dB	22.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:51 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

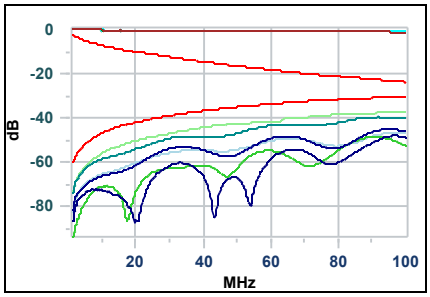
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:41:20
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

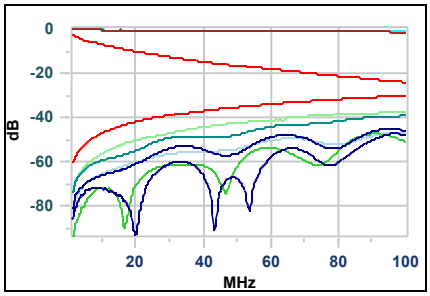
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	70.2dB @ 1.9MHz	55.7dB	14.5dB	38.2dB @ 91.8MHz	7.8dB	30.4dB
7,8-5,4	76.6dB @ 2.1MHz	55.1dB	21.5dB	43.9dB @ 95.5MHz	7.0dB	36.9dB
7,8-1,2	81.7dB @ 1.8MHz	56.4dB	25.3dB	46.9dB @ 95.8MHz	7.0dB	39.9dB
3,6-5,4	69.9dB @ 1.9MHz	55.7dB	14.2dB	35.4dB @ 99.8MHz	6.1dB	29.3dB
3,6-1,2	73.3dB @ 7.0MHz	43.7dB	29.6dB	47.4dB @ 91.3MHz	8.0dB	39.4dB
5,4-1,2	71.7dB @ 3.7MHz	49.8dB	21.9dB	45.2dB @ 96.5MHz	6.8dB	38.4dB



RH

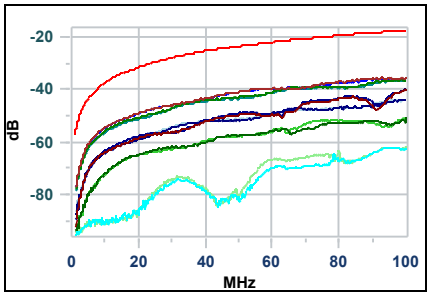
Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	70.8dB @ 1.8MHz	56.4dB	14.4dB	37.8dB @ 99.8MHz	6.1dB	31.7dB
7,8-5,4	75.9dB @ 2.1MHz	55.1dB	20.8dB	43.6dB @ 95.5MHz	7.0dB	36.6dB
7,8-1,2	81.5dB @ 1.8MHz	56.4dB	25.1dB	45.7dB @ 96.5MHz	6.8dB	38.9dB
3,6-5,4	70.1dB @ 1.8MHz	56.4dB	13.7dB	35.3dB @ 99.8MHz	6.1dB	29.2dB
3,6-1,2	71.8dB @ 8.5MHz	41.7dB	30.1dB	45.8dB @ 90.8MHz	8.0dB	37.8dB
5,4-1,2	72.5dB @ 3.4MHz	50.6dB	21.9dB	45.1dB @ 97.0MHz	6.7dB	38.4dB



ACR-F: Pass

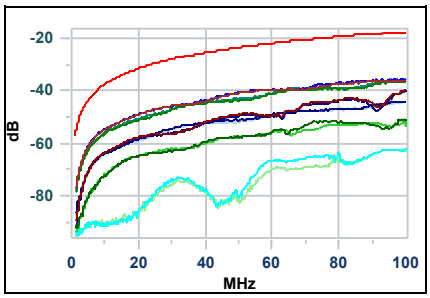
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	60.0dB @ 5.2MHz	43.1dB	16.9dB	35.3dB @ 100.0MHz	17.4dB	17.9dB
7,8-5,4	59.9dB @ 6.1MHz	41.7dB	18.2dB	36.2dB @ 99.0MHz	17.5dB	18.7dB
7,8-1,2	95.0dB @ 1.0MHz	57.4dB	37.6dB	62.1dB @ 99.8MHz	17.4dB	44.7dB
3,6-7,8	40.3dB @ 51.3MHz	23.2dB	17.1dB	35.7dB @ 100.0MHz	17.4dB	18.3dB
3,6-5,4	39.6dB @ 99.8MHz	17.4dB	22.2dB	39.6dB @ 99.8MHz	17.4dB	22.2dB
3,6-1,2	66.6dB @ 15.1MHz	33.8dB	32.8dB	51.0dB @ 100.0MHz	17.4dB	33.6dB
5,4-7,8	39.6dB @ 64.5MHz	21.2dB	18.4dB	36.4dB @ 99.3MHz	17.5dB	18.9dB
5,4-3,6	39.6dB @ 99.8MHz	17.4dB	22.2dB	39.6dB @ 99.8MHz	17.4dB	22.2dB
5,4-1,2	47.3dB @ 64.8MHz	21.2dB	26.1dB	44.1dB @ 99.8MHz	17.4dB	26.7dB
1,2-7,8	93.8dB @ 1.0MHz	57.4dB	36.4dB	61.7dB @ 99.8MHz	17.4dB	44.3dB
1,2-3,6	51.8dB @ 72.8MHz	20.2dB	31.6dB	50.6dB @ 100.0MHz	17.4dB	33.2dB
1,2-5,4	67.0dB @ 6.6MHz	41.1dB	25.9dB	43.9dB @ 99.3MHz	17.5dB	26.4dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	60.5dB @ 5.1MHz	43.3dB	17.2dB	35.9dB @ 97.0MHz	17.7dB	18.2dB
7,8-5,4	39.6dB @ 64.5MHz	21.2dB	18.4dB	36.4dB @ 94.8MHz	17.9dB	18.5dB
7,8-1,2	93.8dB @ 1.0MHz	57.4dB	36.4dB	61.7dB @ 99.8MHz	17.4dB	44.3dB
3,6-7,8	60.0dB @ 5.2MHz	43.1dB	16.9dB	35.0dB @ 100.0MHz	17.4dB	17.6dB
3,6-5,4	39.5dB @ 99.8MHz	17.4dB	22.1dB	39.5dB @ 99.8MHz	17.4dB	22.1dB
3,6-1,2	51.6dB @ 72.8MHz	20.2dB	31.4dB	50.3dB @ 100.0MHz	17.4dB	32.9dB
5,4-7,8	60.8dB @ 5.5MHz	42.6dB	18.2dB	36.1dB @ 99.0MHz	17.5dB	18.6dB
5,4-3,6	39.7dB @ 99.8MHz	17.4dB	22.3dB	39.7dB @ 99.8MHz	17.4dB	22.3dB
5,4-1,2	66.9dB @ 6.6MHz	41.1dB	25.8dB	43.7dB @ 99.3MHz	17.5dB	26.2dB
1,2-7,8	95.0dB @ 1.0MHz	57.4dB	37.6dB	62.1dB @ 99.8MHz	17.4dB	44.7dB
1,2-3,6	66.6dB @ 15.1MHz	33.8dB	32.8dB	51.3dB @ 100.0MHz	17.4dB	33.9dB
1,2-5,4	47.3dB @ 64.8MHz	21.2dB	26.1dB	44.2dB @ 99.0MHz	17.5dB	26.7dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:51 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

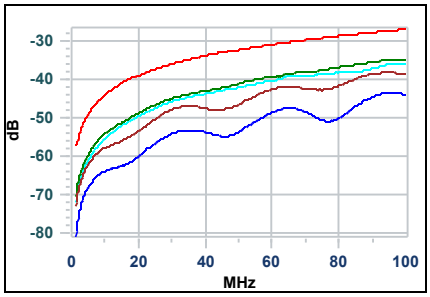
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:41:20
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

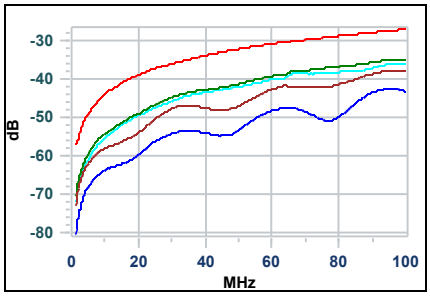
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.5dB @ 90.0MHz	27.9dB	10.6dB	38.2dB @ 96.8MHz	27.3dB	10.9dB
3,6	✓	35.3dB @ 91.3MHz	27.8dB	7.5dB	35.1dB @ 100.0MHz	27.1dB	8.0dB
5,4	✓	38.9dB @ 64.5MHz	30.4dB	8.5dB	36.0dB @ 98.8MHz	27.2dB	8.8dB
1,2	✓	43.3dB @ 94.3MHz	27.5dB	15.8dB	43.3dB @ 96.8MHz	27.3dB	16.0dB



RH

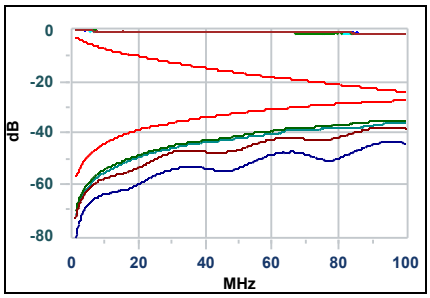
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.1dB @ 93.5MHz	27.6dB	10.5dB	37.8dB @ 97.0MHz	27.3dB	10.5dB
3,6	✓	35.2dB @ 92.5MHz	27.7dB	7.5dB	34.8dB @ 100.0MHz	27.1dB	7.7dB
5,4	✓	38.7dB @ 65.8MHz	30.2dB	8.5dB	35.9dB @ 99.3MHz	27.1dB	8.8dB
1,2	✓	42.6dB @ 93.8MHz	27.6dB	15.0dB	42.5dB @ 96.5MHz	27.3dB	15.2dB



PS ACR-N: Pass

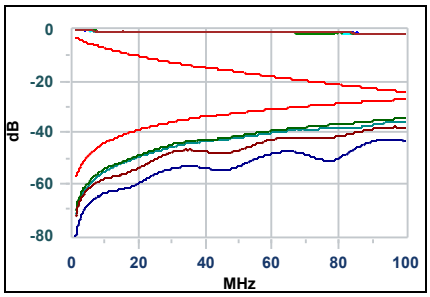
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.2dB @ 1.9MHz	52.7dB	16.5dB	36.9dB @ 92.8MHz	4.6dB	32.3dB
3,6	✓	67.1dB @ 1.9MHz	52.7dB	14.4dB	33.5dB @ 99.8MHz	3.1dB	30.4dB
5,4	✓	68.0dB @ 2.1MHz	52.1dB	15.9dB	34.6dB @ 98.8MHz	3.4dB	31.2dB
1,2	✓	71.2dB @ 3.3MHz	48.0dB	23.2dB	42.0dB @ 94.3MHz	4.3dB	37.7dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.6dB @ 1.8MHz	53.4dB	16.2dB	36.5dB @ 96.8MHz	3.7dB	32.8dB
3,6	✓	66.1dB @ 2.1MHz	52.1dB	14.0dB	33.2dB @ 99.8MHz	3.1dB	30.1dB
5,4	✓	67.5dB @ 2.1MHz	52.1dB	15.4dB	34.4dB @ 99.3MHz	3.2dB	31.2dB
1,2	✓	70.8dB @ 3.4MHz	47.6dB	23.2dB	41.2dB @ 94.3MHz	4.3dB	36.9dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_309.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:51 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER THERMAL
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

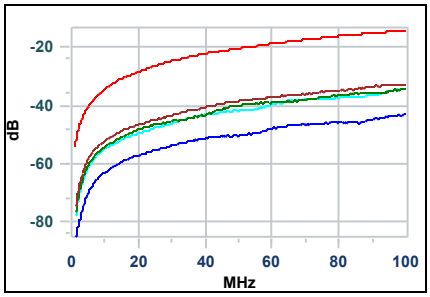
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 6/21/2014
Test Time: 12:41:20
Operator: Tesfu Y
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

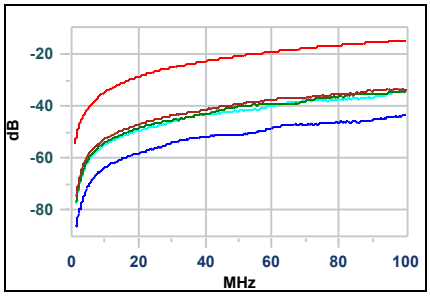
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	57.8dB @ 5.1MHz	40.3dB	17.5dB	32.8dB @ 100.0MHz	14.4dB	18.4dB
3,6	✓	39.7dB @ 51.3MHz	20.2dB	19.5dB	34.2dB @ 100.0MHz	14.4dB	19.8dB
5,4	✓	34.2dB @ 99.8MHz	14.4dB	19.8dB	34.2dB @ 99.8MHz	14.4dB	19.8dB
1,2	✓	66.5dB @ 6.6MHz	38.1dB	28.4dB	43.0dB @ 99.3MHz	14.5dB	28.5dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	58.1dB @ 5.1MHz	40.3dB	17.8dB	33.1dB @ 97.0MHz	14.7dB	18.4dB
3,6	✓	39.4dB @ 51.5MHz	20.2dB	19.2dB	33.6dB @ 100.0MHz	14.4dB	19.2dB
5,4	✓	34.4dB @ 97.0MHz	14.7dB	19.7dB	34.1dB @ 99.8MHz	14.4dB	19.7dB
1,2	✓	46.7dB @ 64.8MHz	18.2dB	28.5dB	43.4dB @ 99.0MHz	14.5dB	28.9dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:41 AM
Version: 1.3.2

Summary:

All Cables	Twisted Pair	Coax/Twinax	Fiber
Total: 1	Total: 1	Total: 0	Total: 0
Pass: 1	Pass: 1	Pass: 0	Pass: 0
Fail: 0	Fail: 0	Fail: 0	Fail: 0
Tot. Length: 20.7ft	Tot. Length: 20.7ft	Tot. Length: 0ft	Tot. Length: 0ft

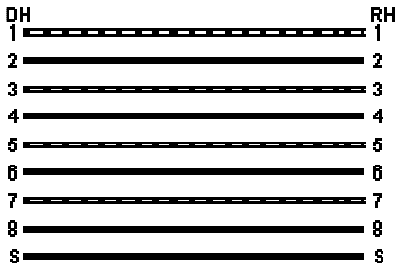
Pass

Test Name: S3 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:08:55
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Wiremap: Pass

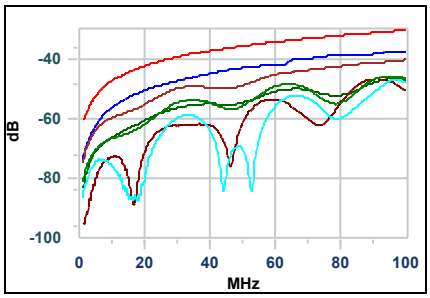


Test	7,8(0.72)	3,6(0.72)	5,4(0.72)	1,2(0.72)	Limit	Result
Length	21.0 ft.	22.0 ft.	22.0 ft.	20.7 ft.	< 328.1 ft.	
Propagation Delay	29.4 ns	30.8 ns	30.8 ns	29.2 ns	< 555.0 ns	
Delay Skew	0.2 ns	1.6 ns	1.6 ns	0.0 ns	< 50.0 ns	
Headroom	65.0 dB					

NEXT: Pass

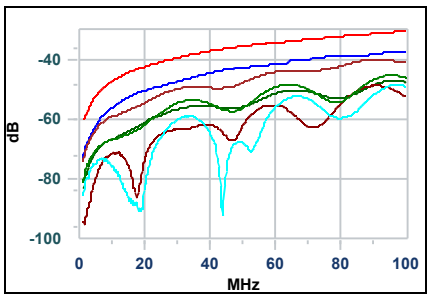
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		40.9dB @ 88.8MHz	31.0dB	9.9dB	40.0dB @ 100.0MHz	30.1dB	9.9dB
7,8-5,4		48.2dB @ 62.3MHz	33.6dB	14.6dB	45.3dB @ 96.8MHz	30.3dB	15.0dB
7,8-1,2		47.0dB @ 96.0MHz	30.4dB	16.6dB	46.9dB @ 98.0MHz	30.2dB	16.7dB
3,6-5,4		39.8dB @ 66.0MHz	33.2dB	6.6dB	36.9dB @ 100.0MHz	30.1dB	6.8dB
3,6-1,2		46.7dB @ 89.0MHz	31.0dB	15.7dB	46.5dB @ 91.5MHz	30.7dB	15.8dB
5,4-1,2		46.4dB @ 94.5MHz	30.5dB	15.9dB	46.3dB @ 97.8MHz	30.2dB	16.1dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6		39.8dB @ 87.5MHz	31.1dB	8.7dB	39.6dB @ 91.5MHz	30.7dB	8.9dB
7,8-5,4		48.0dB @ 62.8MHz	33.6dB	14.4dB	45.0dB @ 96.5MHz	30.3dB	14.7dB
7,8-1,2		48.1dB @ 96.0MHz	30.4dB	17.7dB	48.0dB @ 97.8MHz	30.2dB	17.8dB
3,6-5,4		39.7dB @ 65.0MHz	33.3dB	6.4dB	37.0dB @ 100.0MHz	30.1dB	6.9dB
3,6-1,2		48.5dB @ 89.0MHz	31.0dB	17.5dB	48.3dB @ 91.5MHz	30.7dB	17.6dB
5,4-1,2		46.7dB @ 94.5MHz	30.5dB	16.2dB	46.6dB @ 97.0MHz	30.3dB	16.3dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:41 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

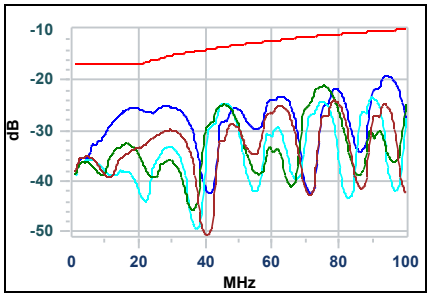
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:08:55
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

Return Loss: Pass

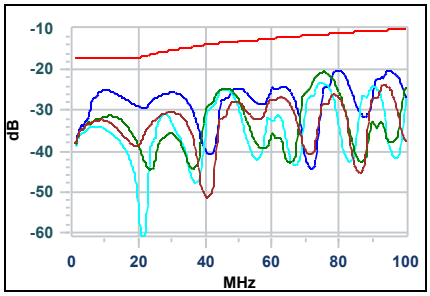
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	25.1dB @ 62.0MHz	12.1dB	13.0dB	24.1dB @ 78.5MHz	11.1dB	13.0dB
3,6	✓	21.2dB @ 74.8MHz	11.3dB	9.9dB	21.1dB @ 75.8MHz	11.2dB	9.9dB
5,4	✓	24.8dB @ 45.0MHz	13.5dB	11.3dB	23.4dB @ 90.0MHz	10.5dB	12.9dB
1,2	✓	25.5dB @ 18.3MHz	17.0dB	8.5dB	19.3dB @ 94.8MHz	10.2dB	9.1dB



RH

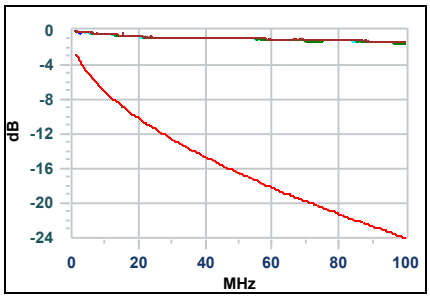
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	23.5dB @ 93.5MHz	10.3dB	13.2dB	23.5dB @ 93.5MHz	10.3dB	13.2dB
3,6	✓	20.7dB @ 75.0MHz	11.3dB	9.4dB	20.6dB @ 75.8MHz	11.2dB	9.4dB
5,4	✓	25.0dB @ 45.3MHz	13.5dB	11.5dB	23.2dB @ 74.8MHz	11.3dB	11.9dB
1,2	✓	25.2dB @ 9.7MHz	17.0dB	8.2dB	20.2dB @ 80.0MHz	11.0dB	9.2dB



Insertion Loss: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.4dB @ 99.3MHz	23.9dB	22.5dB
3,6	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.6dB @ 100.0MHz	24.0dB	22.4dB
5,4	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.5dB @ 100.0MHz	24.0dB	22.5dB
1,2	✓	0.2dB @ 1.9MHz	3.1dB	2.9dB	1.4dB @ 95.0MHz	23.3dB	21.9dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:41 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

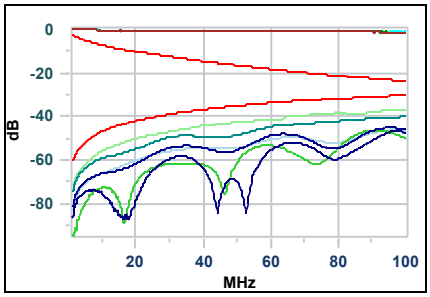
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:08:55
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

ACR-N: Pass

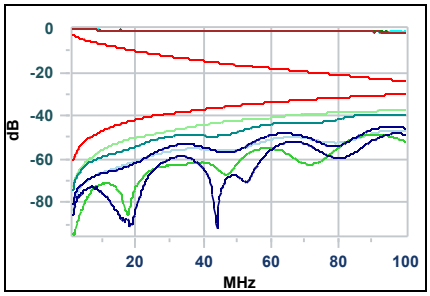
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	71.3dB @ 1.8MHz	56.4dB	14.9dB	38.4dB @ 99.5MHz	6.2dB	32.2dB
7,8-5,4	76.2dB @ 2.1MHz	55.1dB	21.1dB	43.9dB @ 94.8MHz	7.2dB	36.7dB
7,8-1,2	77.9dB @ 2.8MHz	52.4dB	25.5dB	45.6dB @ 96.5MHz	6.8dB	38.8dB
3,6-5,4	70.2dB @ 1.8MHz	56.4dB	13.8dB	35.3dB @ 99.5MHz	6.2dB	29.1dB
3,6-1,2	75.7dB @ 6.3MHz	44.8dB	30.9dB	45.1dB @ 90.8MHz	8.0dB	37.1dB
5,4-1,2	75.6dB @ 2.7MHz	52.9dB	22.7dB	44.8dB @ 97.8MHz	6.5dB	38.3dB



RH

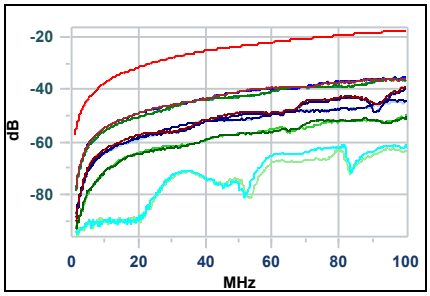
Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	71.0dB @ 1.8MHz	56.4dB	14.6dB	38.2dB @ 90.8MHz	8.0dB	30.2dB
7,8-5,4	75.6dB @ 2.2MHz	54.5dB	21.1dB	43.6dB @ 94.8MHz	7.2dB	36.4dB
7,8-1,2	79.3dB @ 2.2MHz	54.5dB	24.8dB	46.7dB @ 96.5MHz	6.8dB	39.9dB
3,6-5,4	70.6dB @ 1.6MHz	57.0dB	13.6dB	35.4dB @ 98.8MHz	6.4dB	29.0dB
3,6-1,2	72.4dB @ 7.9MHz	42.4dB	30.0dB	46.9dB @ 90.8MHz	8.0dB	38.9dB
5,4-1,2	75.6dB @ 2.7MHz	52.9dB	22.7dB	45.2dB @ 96.0MHz	6.9dB	38.3dB



ACR-F: Pass

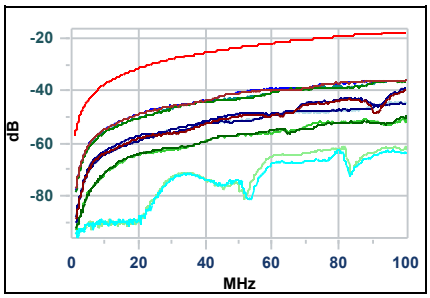
DH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	59.7dB @ 5.4MHz	42.8dB	16.9dB	35.9dB @ 97.0MHz	17.7dB	18.2dB
7,8-5,4	60.3dB @ 5.7MHz	42.4dB	17.9dB	36.0dB @ 99.0MHz	17.5dB	18.5dB
7,8-1,2	93.7dB @ 1.0MHz	57.4dB	36.3dB	61.0dB @ 81.3MHz	19.2dB	41.8dB
3,6-7,8	59.9dB @ 5.2MHz	43.1dB	16.8dB	35.3dB @ 100.0MHz	17.4dB	17.9dB
3,6-5,4	38.9dB @ 99.8MHz	17.4dB	21.5dB	38.9dB @ 99.8MHz	17.4dB	21.5dB
3,6-1,2	51.5dB @ 74.3MHz	20.0dB	31.5dB	50.2dB @ 100.0MHz	17.4dB	32.8dB
5,4-7,8	60.6dB @ 5.5MHz	42.6dB	18.0dB	36.0dB @ 98.3MHz	17.6dB	18.4dB
5,4-3,6	39.5dB @ 99.8MHz	17.4dB	22.1dB	39.5dB @ 99.8MHz	17.4dB	22.1dB
5,4-1,2	44.2dB @ 93.8MHz	18.0dB	26.2dB	43.8dB @ 97.8MHz	17.6dB	26.2dB
1,2-7,8	94.8dB @ 1.0MHz	57.4dB	37.4dB	62.5dB @ 96.5MHz	17.7dB	44.8dB
1,2-3,6	49.5dB @ 100.0MHz	17.4dB	32.1dB	49.5dB @ 100.0MHz	17.4dB	32.1dB
1,2-5,4	53.0dB @ 34.8MHz	26.6dB	26.4dB	44.6dB @ 98.5MHz	17.5dB	27.1dB



RH

Pairs	Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8-3,6	59.9dB @ 5.2MHz	43.1dB	16.8dB	35.6dB @ 100.0MHz	17.4dB	18.2dB
7,8-5,4	60.7dB @ 5.5MHz	42.6dB	18.1dB	36.1dB @ 96.3MHz	17.7dB	18.4dB
7,8-1,2	94.8dB @ 1.0MHz	57.4dB	37.4dB	62.5dB @ 96.5MHz	17.7dB	44.8dB
3,6-7,8	59.7dB @ 5.4MHz	42.8dB	16.9dB	35.7dB @ 97.0MHz	17.7dB	18.0dB
3,6-5,4	39.4dB @ 99.8MHz	17.4dB	22.0dB	39.4dB @ 99.8MHz	17.4dB	22.0dB
3,6-1,2	49.2dB @ 100.0MHz	17.4dB	31.8dB	49.2dB @ 100.0MHz	17.4dB	31.8dB
5,4-7,8	60.5dB @ 5.5MHz	42.6dB	17.9dB	35.8dB @ 99.0MHz	17.5dB	18.3dB
5,4-3,6	39.0dB @ 99.8MHz	17.4dB	21.6dB	39.0dB @ 99.8MHz	17.4dB	21.6dB
5,4-1,2	53.0dB @ 34.8MHz	26.6dB	26.4dB	44.4dB @ 98.5MHz	17.5dB	26.9dB
1,2-7,8	93.7dB @ 1.0MHz	57.4dB	36.3dB	61.0dB @ 81.3MHz	19.2dB	41.8dB
1,2-3,6	51.7dB @ 74.3MHz	20.0dB	31.7dB	50.4dB @ 88.3MHz	18.5dB	31.9dB
1,2-5,4	65.9dB @ 7.8MHz	39.6dB	26.3dB	44.0dB @ 97.8MHz	17.6dB	26.4dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:41 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

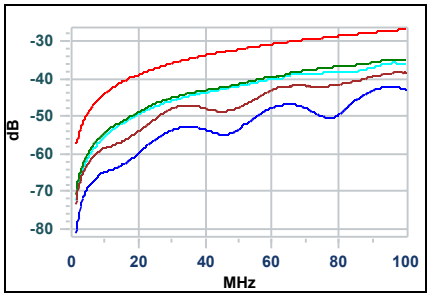
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:08:55
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS NEXT: Pass

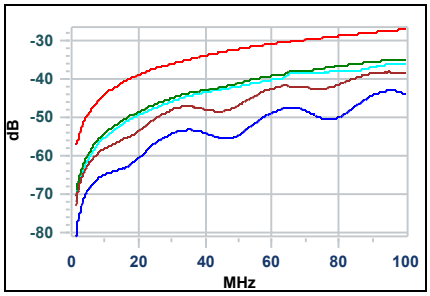
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.6dB @ 94.8MHz	27.5dB	11.1dB	38.4dB @ 99.8MHz	27.1dB	11.3dB
3,6	✓	35.3dB @ 93.5MHz	27.6dB	7.7dB	35.0dB @ 100.0MHz	27.1dB	7.9dB
5,4	✓	35.9dB @ 96.0MHz	27.4dB	8.5dB	35.9dB @ 97.0MHz	27.3dB	8.6dB
1,2	✓	42.1dB @ 94.8MHz	27.5dB	14.6dB	42.1dB @ 95.5MHz	27.4dB	14.7dB



RH

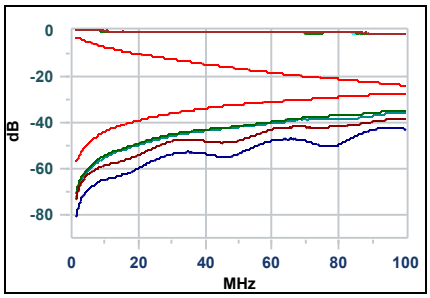
Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	38.5dB @ 90.0MHz	27.9dB	10.6dB	38.2dB @ 95.3MHz	27.4dB	10.8dB
3,6	✓	35.5dB @ 89.0MHz	28.0dB	7.5dB	35.1dB @ 96.5MHz	27.3dB	7.8dB
5,4	✓	38.7dB @ 65.0MHz	30.3dB	8.4dB	36.0dB @ 99.3MHz	27.1dB	8.9dB
1,2	✓	43.1dB @ 94.5MHz	27.5dB	15.6dB	43.1dB @ 96.0MHz	27.4dB	15.7dB



PS ACR-N: Pass

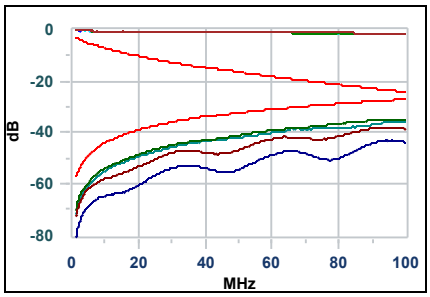
DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	68.8dB @ 2.1MHz	52.1dB	16.7dB	37.1dB @ 96.5MHz	3.8dB	33.3dB
3,6	✓	67.7dB @ 1.8MHz	53.4dB	14.3dB	33.4dB @ 99.5MHz	3.2dB	30.2dB
5,4	✓	69.1dB @ 1.8MHz	53.4dB	15.7dB	34.5dB @ 96.0MHz	3.9dB	30.6dB
1,2	✓	71.7dB @ 3.3MHz	48.0dB	23.7dB	40.7dB @ 94.8MHz	4.2dB	36.5dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	69.2dB @ 1.9MHz	52.7dB	16.5dB	36.9dB @ 93.8MHz	4.4dB	32.5dB
3,6	✓	68.1dB @ 1.6MHz	54.0dB	14.1dB	33.6dB @ 96.5MHz	3.8dB	29.8dB
5,4	✓	69.0dB @ 1.8MHz	53.4dB	15.6dB	34.5dB @ 97.8MHz	3.5dB	31.0dB
1,2	✓	71.4dB @ 3.4MHz	47.6dB	23.8dB	41.7dB @ 94.5MHz	4.2dB	37.5dB



IDEAL INDUSTRIES, Inc. Certified - Test Report

Job Name: QTP_308.job
Company: GLENAIR INC.

Report Date: Thursday, August 14, 2014 10:41 AM
Version: 1.3.2

Pass

Test Name: S3 AFTER 300 MATING
Test Limit: CAT 5E STP Chan
MFGDB:
LANTEK II-1000 [1227366/1227378
Adapter ID: 6014, CAT6A,0656,Rev.P
User Notes:

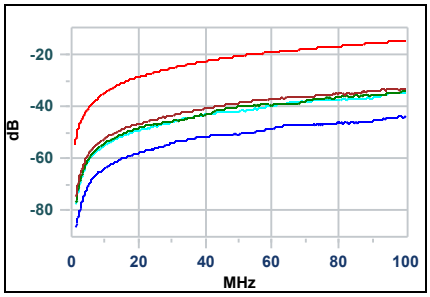
NVP: 72
Standard: TIA 568-C.2
Frequency Range: 1 - 100MHz
Firmware 2.019

Test Date: 8/14/2014
Test Time: 09:08:55
Operator: Tesfu Y.
Contractor: CONTRACTOR NAME
Company: GLENAIR INC.

PS ACR-F: Pass

DH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	56.7dB @ 5.7MHz	39.4dB	17.3dB	32.9dB @ 97.0MHz	14.7dB	18.2dB
3,6	✓	59.3dB @ 5.2MHz	40.1dB	19.2dB	33.6dB @ 100.0MHz	14.4dB	19.2dB
5,4	✓	34.1dB @ 98.3MHz	14.6dB	19.5dB	34.1dB @ 98.3MHz	14.6dB	19.5dB
1,2	✓	52.2dB @ 34.8MHz	23.6dB	28.6dB	43.5dB @ 100.0MHz	14.4dB	29.1dB



RH

Pairs		Worst Case Value	Limit	Margin	Worst Overall Value	Limit	Margin
7,8	✓	57.5dB @ 5.2MHz	40.1dB	17.4dB	32.9dB @ 99.3MHz	14.5dB	18.4dB
3,6	✓	59.1dB @ 5.4MHz	39.8dB	19.3dB	34.2dB @ 100.0MHz	14.4dB	19.8dB
5,4	✓	33.8dB @ 98.8MHz	14.5dB	19.3dB	33.8dB @ 99.0MHz	14.5dB	19.3dB
1,2	✓	64.0dB @ 9.0MHz	35.4dB	28.6dB	43.2dB @ 97.8MHz	14.6dB	28.6dB