Amphenol

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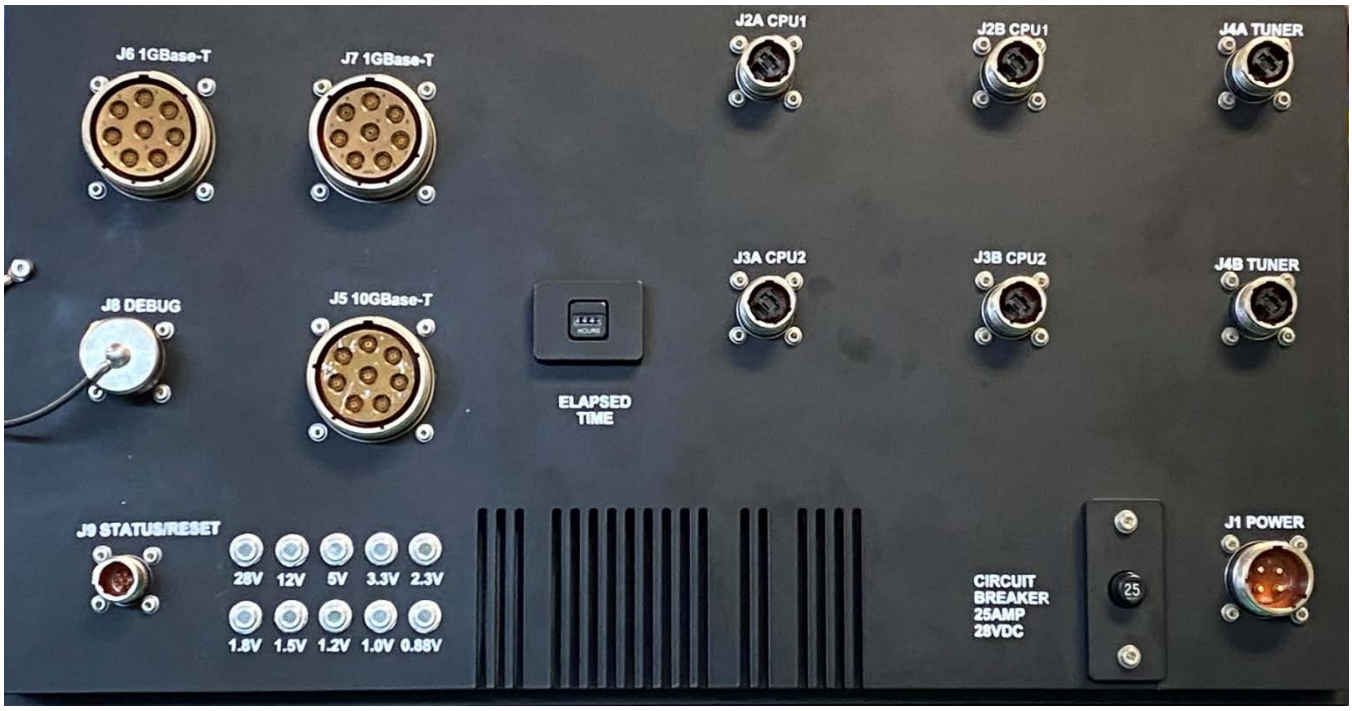
QUALIFICATION TEST

Vibration and Shock Test Report

PART NO. CF-020011-433

Document Number: L-40978-156



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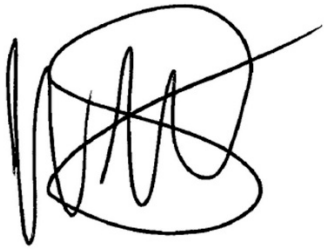


2/19/2021

Approved by: _____

Jared Sibrava
Director of HighSpeed
Amphenol Aerospace

REVISION RECORD

REV	DESCRIPTION	APPROVAL AND DATE
A	Initial document release	2/19/2020

TABLE OF CONTENTS

SCOPE

1.1 General

This document reports the Vibration and Shock test results for the CF-020011-433 120 channel 10Gbps Ethernet switch.

2. APPLICABLE DOCUMENTS

Document Number	Document Title
DoD-STD-1399/070	Part 1, Military Standard: Interface Standard For Shipboard Systems (Section 070 - Part 1) D.C. Magnetic Field Environment, 26 Feb 1979
GEIA-HB-649	Configuration Management Standard Implementation Guide, Feb 2016, Rev A
GEIA-STD-0007B	Logistics Product Data, 1 May 2013
IPC 610 Class 3	Acceptability of Electronic Assemblies
MIL-HDBK-217F	Military Handbook Reliability Prediction of Electronic Equipment
MIL-HDBK-472	Military Standardization Handbook: Maintainability Prediction, 24 May 1966
MIL-HDBK-502A	Department of Defense Handbook: Acquisition Logistics, 30 May 1997
MIL-HDBK-781A	Reliability Test Methods, Plans, and Environments for Engineering, Development Qualification, and Production
MIL-STD-130N	Department of Defence Standard Practice Identification Marking of U.S. Military Property
MIL-STD-1629A	Military Standard Procedures for Performing a Failure Mode, Effects and Criticality Analysis
MIL-STD-167	Department of Defence Test Method Standard Mechanical Vibrations of Shipboard Equipment
MIL-STD-1686C	Military Standard: Electrostatic Discharge Control Program for Protection of Electrical And Electronic Parts, Assemblies and Equipment
MIL-STD-2165	Military Standard Procedures for Testability Program for Electronic Systems and Equipment
MIL-STD-3001/1	Department of Defense Standard Practice: Preparation of Digital Technical Information for Multi-Output Presentation of Technical Manuals, 15 May 2001
MIL-STD-461G	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment, 11 Dec 2015
MIL-STD-464C	Department of Defense Interface Standard: Electromagnetic Environmental Effects, Requirements for Systems, 01 Dec 2010
MIL-STD-704F	Department of Defence Interface Standard: Aircraft Electrical Power Characteristics
MIL-STD-785B	(NOTICE 3), Military Standard: Reliability Program for Systems and Equipment Development and Production, 30 July 1998
MIL-STD-810B	Department of Defence Test Method Standard: Environmental Engineering Considerations and Laboratory Tests
MIL-STD-881C	Department of Defense Standard Practice Work Breakdown Structures for Defense Materiel Items, 03 Oct. 2011

Document Number	Document Title
MIL-STD-882E	Department Of Defense Standard Practice for System Safety, 11 May 2012
NAS-411	National Aerospace Standard, Hazardous Materials Management Program
SAE AS50881	Wiring Aerospace Vehicle, 29 May 2015, Rev F
SAE TA-STD-0017	Product Support Analysis, 1 Nov 2012
SAE/AS 5553	Fraudulent/Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition
SAE/AS 9100D	Quality Management Systems - Requirements for Aviation, Space and Defense Organizations
SAE-GEIA-HB-0007B	Logistics Product Data Handbook
STANAG 4586	(ED. 3), Standardization Agreement: Standard Interfaces of UAV Control System (UCS) For NATO UAV Interoperability, 09 Nov 2012
DoD 5220.22-M	National Industrial Security Program Operating Manual, 28 Feb. 2006
DoD 5400.7-R	DoD Freedom of Information Act Program, Sep. 1998
DoD Inst 5000.04-M-1	Cost and Software Data Reporting (CSDR) Manual, 4 Nov 2011
DoD Inst 5000.2	Operation of the Defense Acquisition System, 07 Jan. 2015
DoD Inst 5200.39	Critical Program Information Protection Within the Department of Defense, 28 Dec. 2010
DoD Inst S-5230.28	Low Observable and Counter Low Observable Programs, 26 May 2005
DoDI 8500.01	Cybersecurity, 14 Mar. 2014
DoDI 8510.01	Risk Management Framework for DoD Information Technology, 12 Mar 201
DoDI 8520.02	Public Key Infrastructure (PKI) and Public Key (PK) Enabling, 24 May 2011
DoDM 5200.01	Volume 4, Information Security Program: Controlled Unclassified Information, 24 Feb. 2012
N/A	DON CIO Memorandum, Encryption of Sensitive Unclassified Data at Rest on Mobile Computing Devices and Removable Storage Media, 3 July 2007
N/A	International Traffic In Arms Regulations, parts 120-130
N/A	National Security Decision Directive Number 298, 22 Jan. 1988
N/A	Technical Manual Contract Requirements, Number 04-012, 10 Apr. 2006
N/A	Volume 4, Information Security Program: Controlled Unclassified Information, 24 Feb. 2012
G000842	General Requirements for Electronic Equipment
G6013.00.29	General Quality Requirements for Suppliers
G8CIRAD-18.30-01	Statement of Work for Processor and Network Switch Units
Q6152.45	Supplier Request for Material Review Action

3. REQUIREMENTS AND PROCEDURE

3.1 Item to be tested

NOMENCLATURE	AMPHENOL PART NUMBER
Ethernet Switch	CF-020011-433

3.2 Test Equipment

3.2.1 Environmental Test Equipment

The following Test Equipment shall be used to provide and measure the exposures specified in this plan. If the listed equipment is unavailable at the time tests are performed, equivalent equipment with equal or superior operational characteristics may be substituted.

PART, TYPE OR NOMENCLATURE	MANUFACTURER	MODEL NUMBER
Shaker	Unholtz-Dickie	R16-3-ST
Controller	Unholtz-Dickie	UD-VWIN
Control Accelerometers	B&K	4384
Vibration Sensor	Endevco	10B10T
Vibration Fixture Ethernet Switch (X-Y-Z) Axis	Amphenol	No part number

3.2.2 Operational Test Equipment

The following test equipment, or equivalent, shall be used for the Electrical Performance Tests:

PART, TYPE OR NOMENCLATURE	MANUFACTURER	MODEL NUMBER
Copper Test Cable	Amphenol	CA-628485-G08
Copper Test Cable	Amphenol	CA-628485-G09
Copper Test Cable	Amphenol	CA-628485-G09A
Copper Test Cable	Amphenol	CA-628485-G09B
Copper Test Cable	Amphenol	CA-628485-G10

Copper Test Cable	Amphenol	CA-628485-G11
Fiber Test Cable	Amphenol	CF-980062-101
Fiber Test Cable	Amphenol	CF-980062-102
Fiber Test Cable	Amphenol	CF-980062-103
Fiber Test Cable	Amphenol	CF-980062-104
Fiber Test Cable	Amphenol	CF-980062-105
Fiber Test Cable	Amphenol	CF-980062-106
Test Computer	IBM	

3.3 General Requirements and Constraints

3.3.1 Standard atmospheric condition tolerances

Unless otherwise specified, all measurements and tests shall be made at prevailing ambient conditions.

3.3.2 Standard test condition tolerances

Condition	Tolerance
Temperature (ºC)	± 2.0 ºC
Pressure (Altitude Ft.)	± 5 %
Vibration-Sinusoidal Amplitude (Ft/sec^2)	± 10 %
Vibration-Sinusoidal Frequency (Hz) ± ½ CPS below 25 Hz	± 2 % above 25 Hz
Shock, Peak G Level (Ft/sec^2)	± 10 %
Relative Humidity (RH)	± 5 %
Time (Minutes)	1.0 % for test durations of 8 hours or less, or within 5 minutes for total test durations greater than 8 hours

3.3.3 Test Equipment Power

Voltage	110 VAC ± 10 %
Frequency	60 ± 6 Hz Single phase
Current	6 Amps max

3.4 Test Failure

3.4.1 Action if failure occurs

In the event that Seller's device fails during performance tests, Seller shall:

(a) Remove failed device from test and immediately notify Buyer by email, furnishing as many failure details as possible, including probable cause and corrective action. Buyer will give tentative approval or disapproval of Seller's corrective action including information or direction for returning repaired unit for test. Seller shall obtain Buyer's approval.

(b) Initiate an analysis of the test specimen to determine the exact cause of failure by disassembly, dissection, and/or other detailed analysis of the failed parts.

Seller shall not resume testing until receipt of Buyer's final decision on Seller's corrective action and Buyer's approval of Seller's proposal for retest.

3.5 Reports

3.5.1 Deviations and Waivers

Any deviations from these procedures or in the configuration of the Ethernet Switch and any waivers of test limits for such deviations shall be recorded in detail in the Test Log. There shall not be any changes in the test procedures without prior written approval of the buyer.

3.5.2 Dispositions of samples

After Seller's completion of laboratory demonstration testing, Seller shall retain test articles in bonded storage until Buyer's approval of demonstration test reports. After approval, Seller shall contact Buyer for direction on disposition of test articles.

3.6 Test Location

Testing will be performed at Amphenol Aerospace in Sidney, NY.

4. DETAILED PROCEDURES

4.1 Scope

This section contains the detailed reports and performance of the Ethernet switch during vibration and shock testing.

4.1.1 Test Results

Appropriate Test Log data sheets are completed for each test as shown in Appendix II.

4.1.2 Electrical and Optical Performance Tests

Electrical and optical performance tests are described in Appendix I. Electrical and optical performance tests areincluded in the test report.

4.1.3 Electrical and Optical Test Cables

Electrical and optical test cables are used to interface with the DUT are described in Appendix III.

4.1.4 Vibration Requirements

Note: Vibration requirements are defined for both performance and endurance levels. Performance vibration levels are based on measured aircraft test data. Endurance levels are factored from the performance data, and represent criteria to assure product reliability.

Sinusoidal **or** Random vibration **shall** be performed, with a preference on Random vibration.

Vibration testing **shall** be conducted in all three (X, Y, Z) Axis.

Note: Associated testing procedures for vibration are defined in MIL-STD-810G: Method 514.6, Vibration, conduct vibration testing at the levels and durations, and in the same order, as specified in Table 2.

The SwitchBox **shall** withstand without damage and operate without degradation while subjected to the performance vibration frequencies and amplitudes as defined in Table 2.

The SwitchBox **shall** withstand without damage and operate without degradation after subjected to the endurance vibration frequencies and amplitudes as defined in Table 2.

Table 1 Vibration Requirements

Test	Test Level	Duration per X, Y, Z Axis
Resonant Search (1 to 2000 MHz)	0.10 to 1.00g	N/A
Sinusoidal Cycling		
Performance	Figure 3, Curve A	15 minutes cycling (1 octave/minute)
Performance	Figure 3, Curve B	15 minutes cycling (1 octave/minute)
Endurance	Figure 3, Curve C	15 minutes cycling (1 octave/minute)
Performance	Figure 3, Curve A	15 minutes cycling (1 octave/minute)
Performance	Figure 3, Curve B	15 minutes cycling (1 octave/minute)
Sinusoidal Dwell (133 Hz)	1.50g	2 hours (1,000,000 cycles)
Random Vibration Testing		
Performance	Figure 4, Curve A	15 minutes
Performance	Figure 4, Curve B	15 minutes
Endurance	Figure 4, Curve C	60 minutes
Performance	Figure 4, Curve A	15 minutes
Performance	Figure 4, Curve B	15 minutes

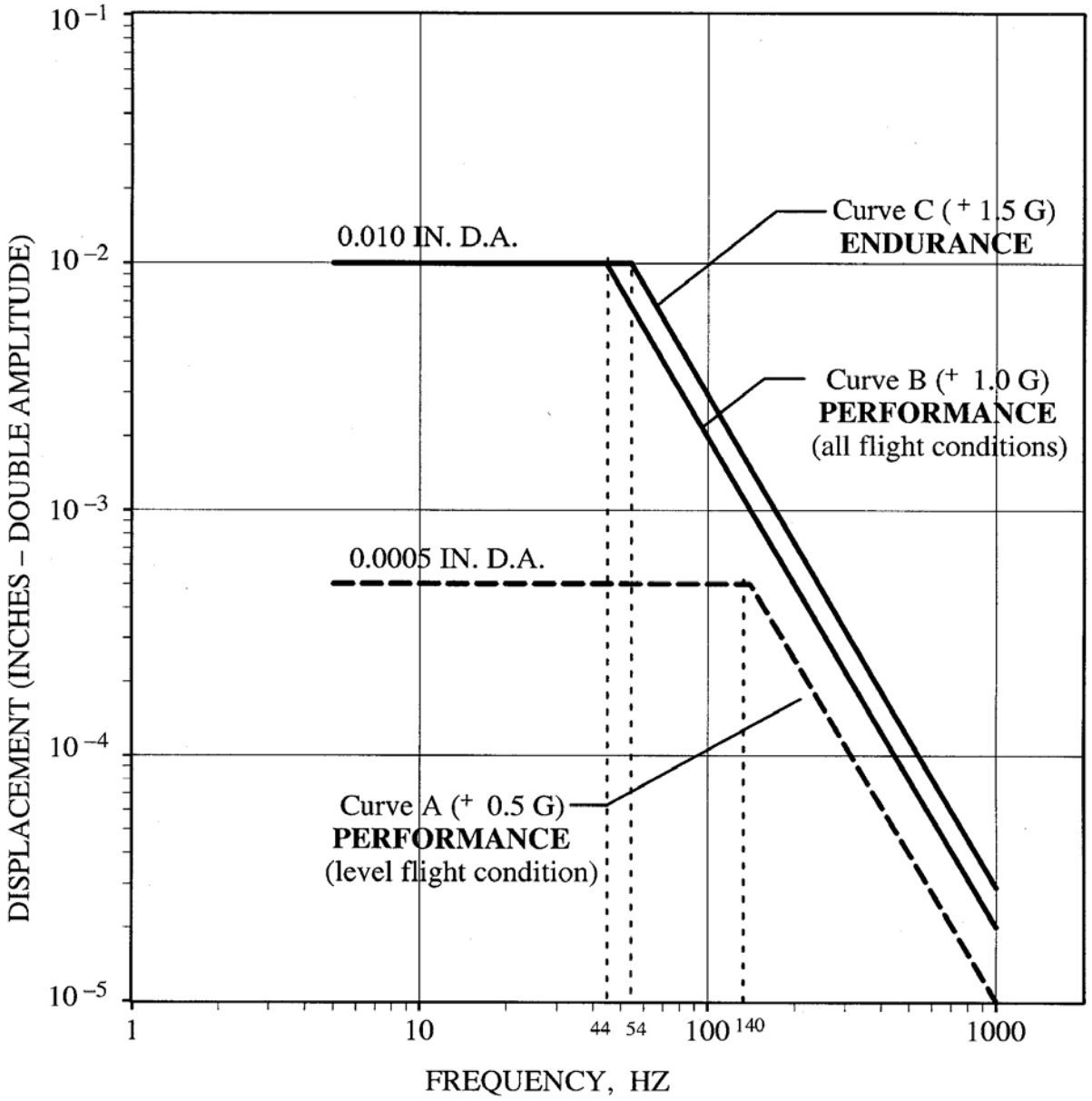


Figure 1 Sinusoidal Vibration

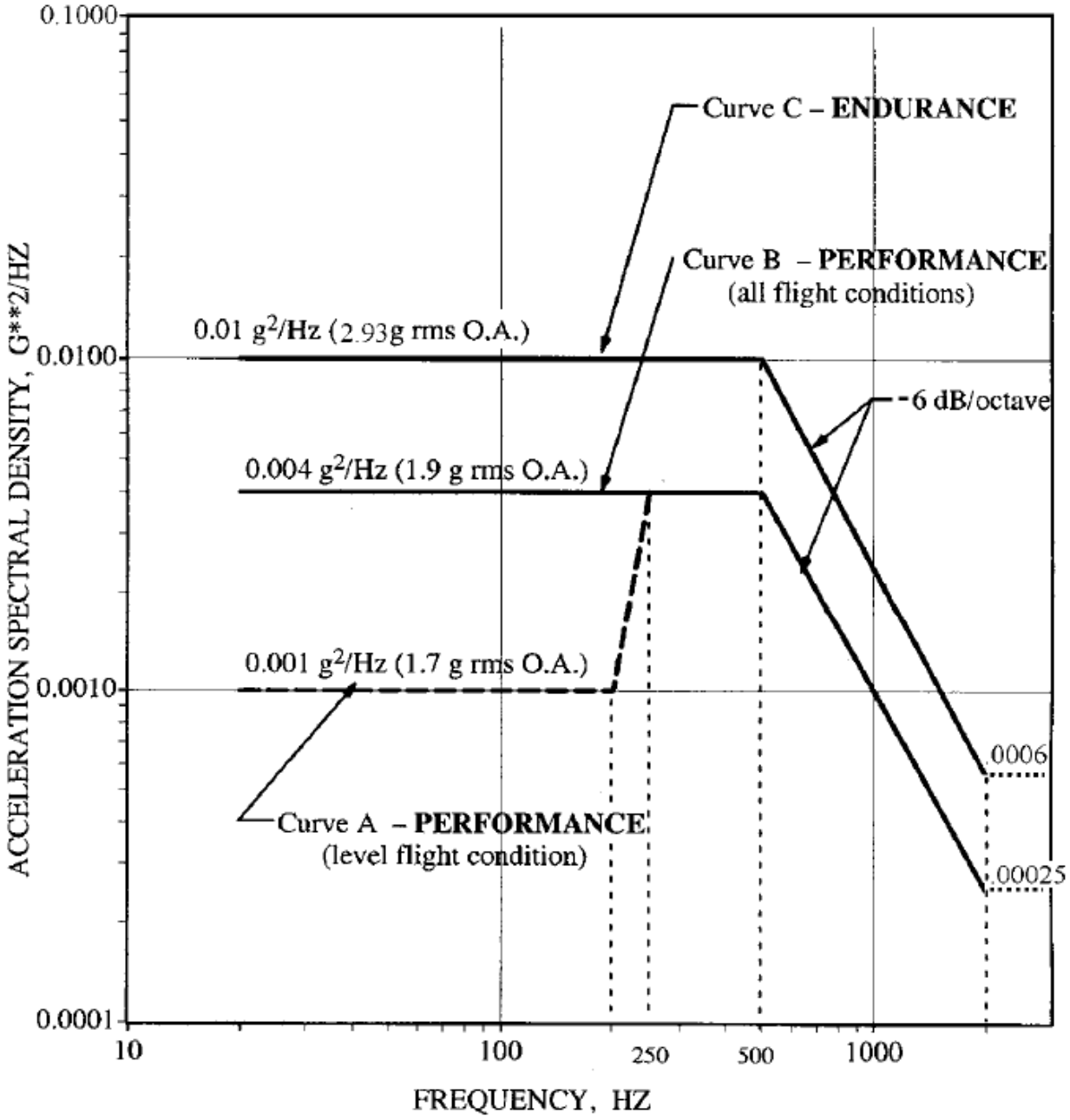


Figure 2 Random Vibration

4.1.5 Operational Shock Requirements

Note: Equipment may be subject to mechanical shock. Three types of shock are defined in this specification: Functional Impact, Non-Functional Impact, and Bench Handling. Shock is a rapid motion that excites dynamic (resonant) response of the material but with very little overall deflection (stress). Shock test criteria and test methods cannot be substituted for acceleration criteria and test methods or vice versa.

4.1.5.1 Functional Impact Shock

The SwitchBox **shall** withstand functional shock impacts, without cracking, binding or mechanical failure, or subsequent failure to operate, at the levels defined in Table 5, as per MIL-STD-810G: Method 516.6, Shock: Procedure I, Functional Shock.

Table 2 Functional Impact Levels

Impulse	Amplitude	Time Duration	Direction
Terminal Peak Sawtooth	20g	11 ms	+/- X Axis +/- Y Axis +/- Z Axis Perform 3 times 18 Shocks Total
	OR		
Half Sine Wave	15g	11 ms	+/- X Axis +/- Y Axis +/- Z Axis Perform 3 times 18 Shocks Total

Test Procedures: The Switchbox will undergo functional shock impacts per MIL-STD-810G: Method 516.6, Shock: Procedure I, Functional Shock using the levels in the tables above.

Step 1 Appendix I Tests Perform the baseline tests in Appendix I and record all necessary measurements of the DUT. Ensure that the data collected in the test log under Appendix II shows when this data was taken in relation to the environmental test.

Step 2 Functional Impact Run the functional impact test as defined above.

Step 3 Visual Examination Perform a visual examination of the DUT and note any irregularities or abnormalities in the test log under Appendix II

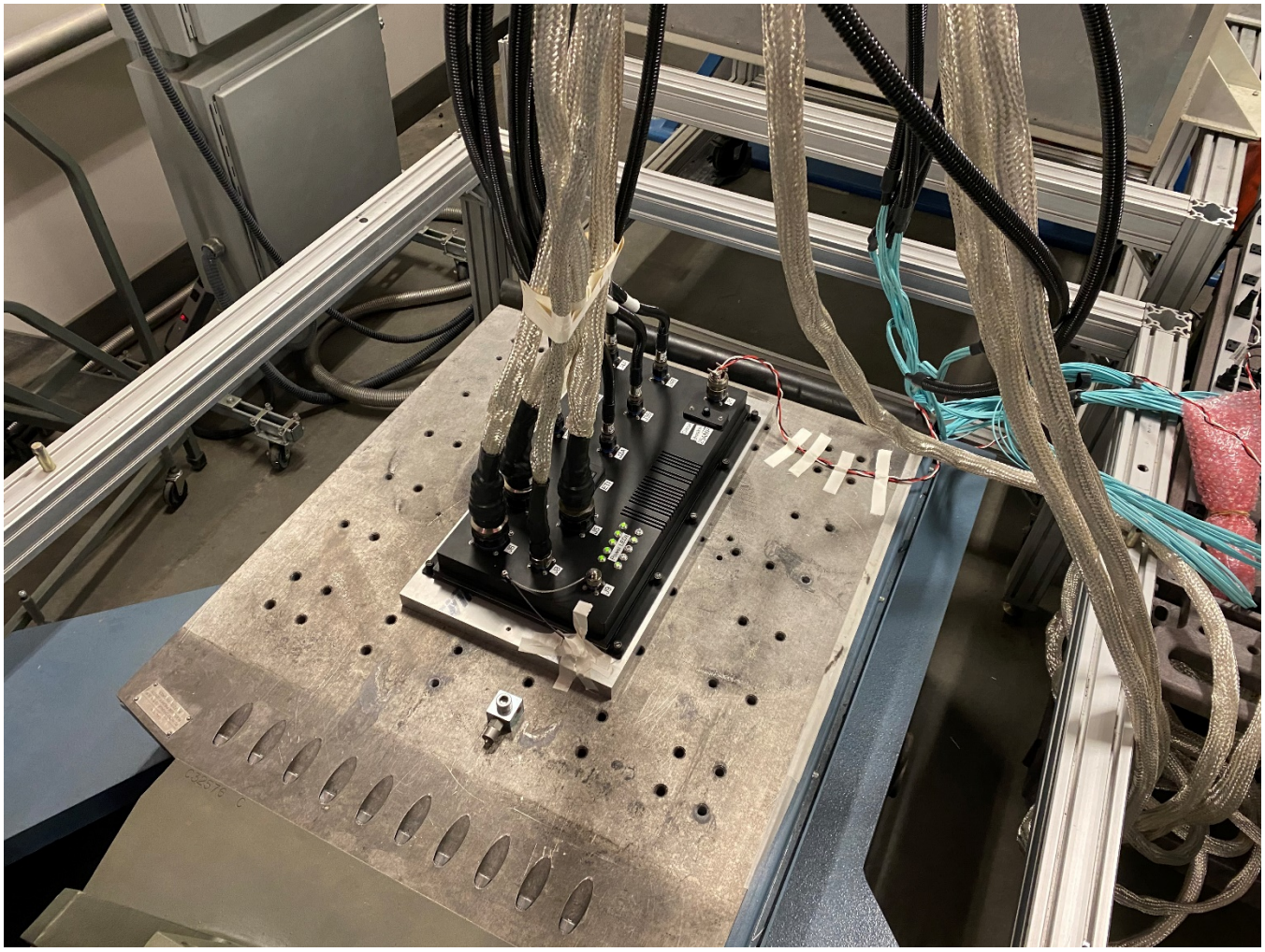
Step 4 Appendix I Tests Perform the tests in Appendix I and record all necessary measurements of the DUT. Ensure that the data collected in the test log under Appendix II shows when this data was taken in relation to the

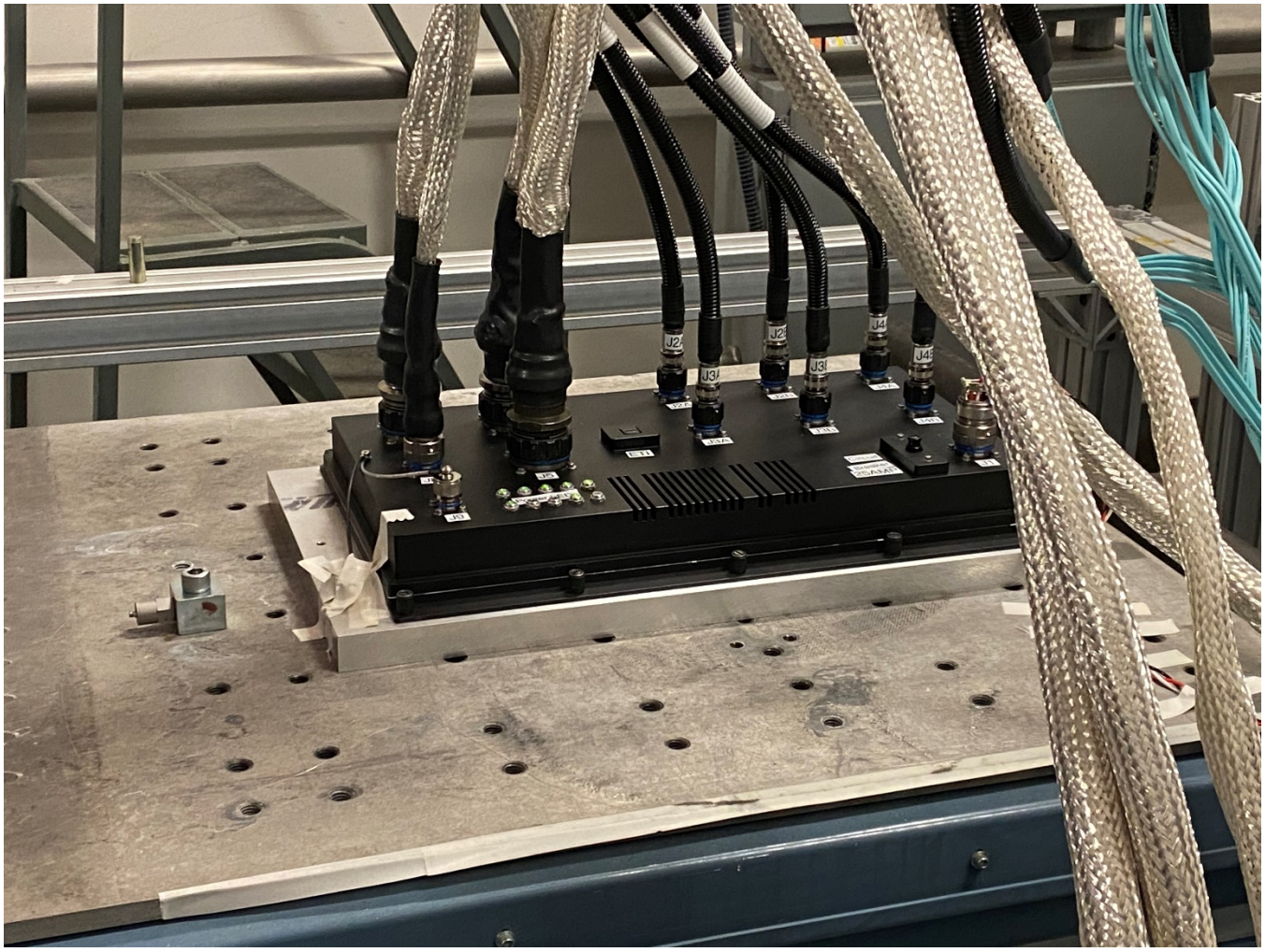
4.1.5.2 Bench Handling Impact Shock

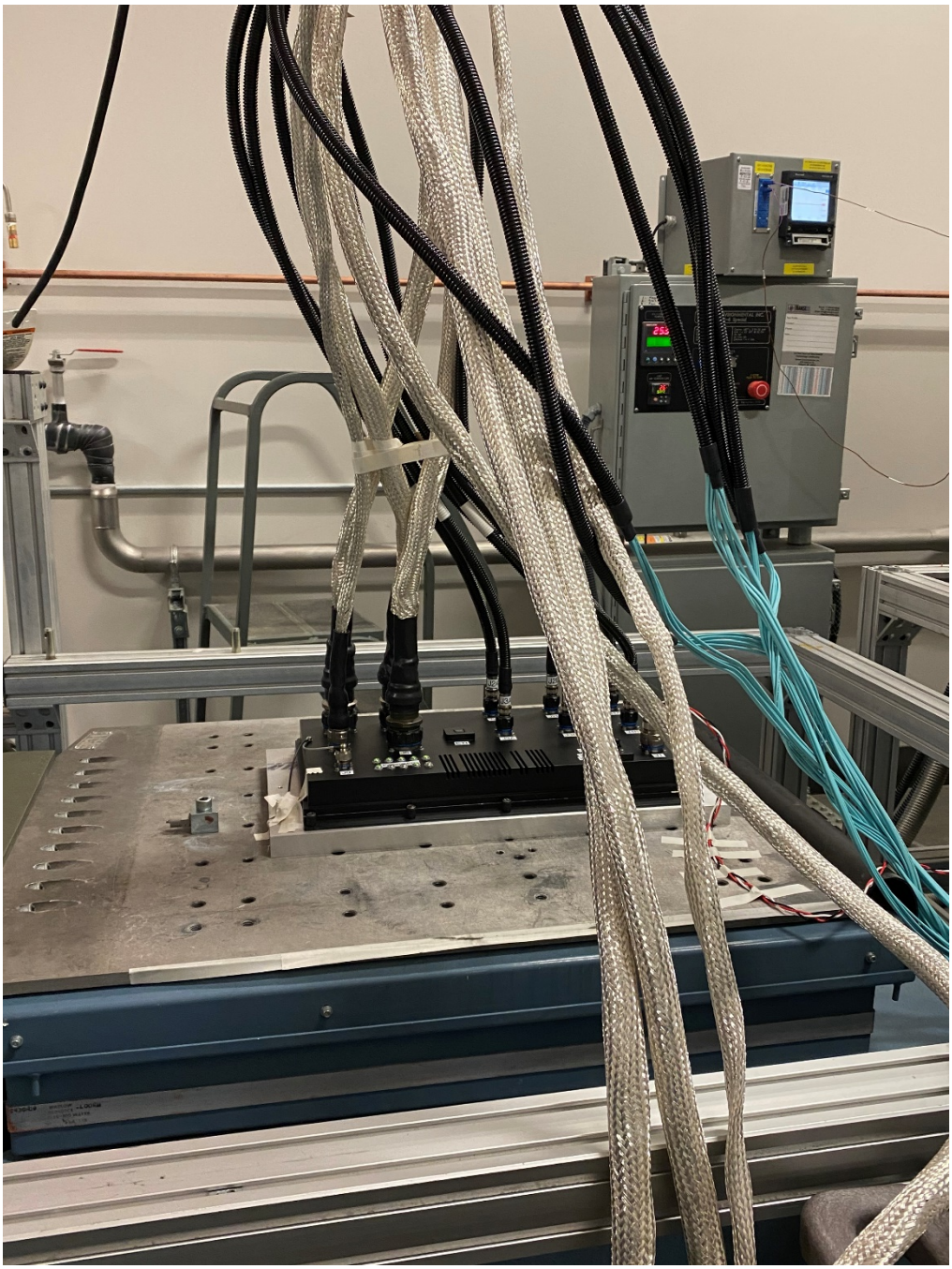
Note: Bench handling impact shock is caused when the equipment is dropped or not set down gently.

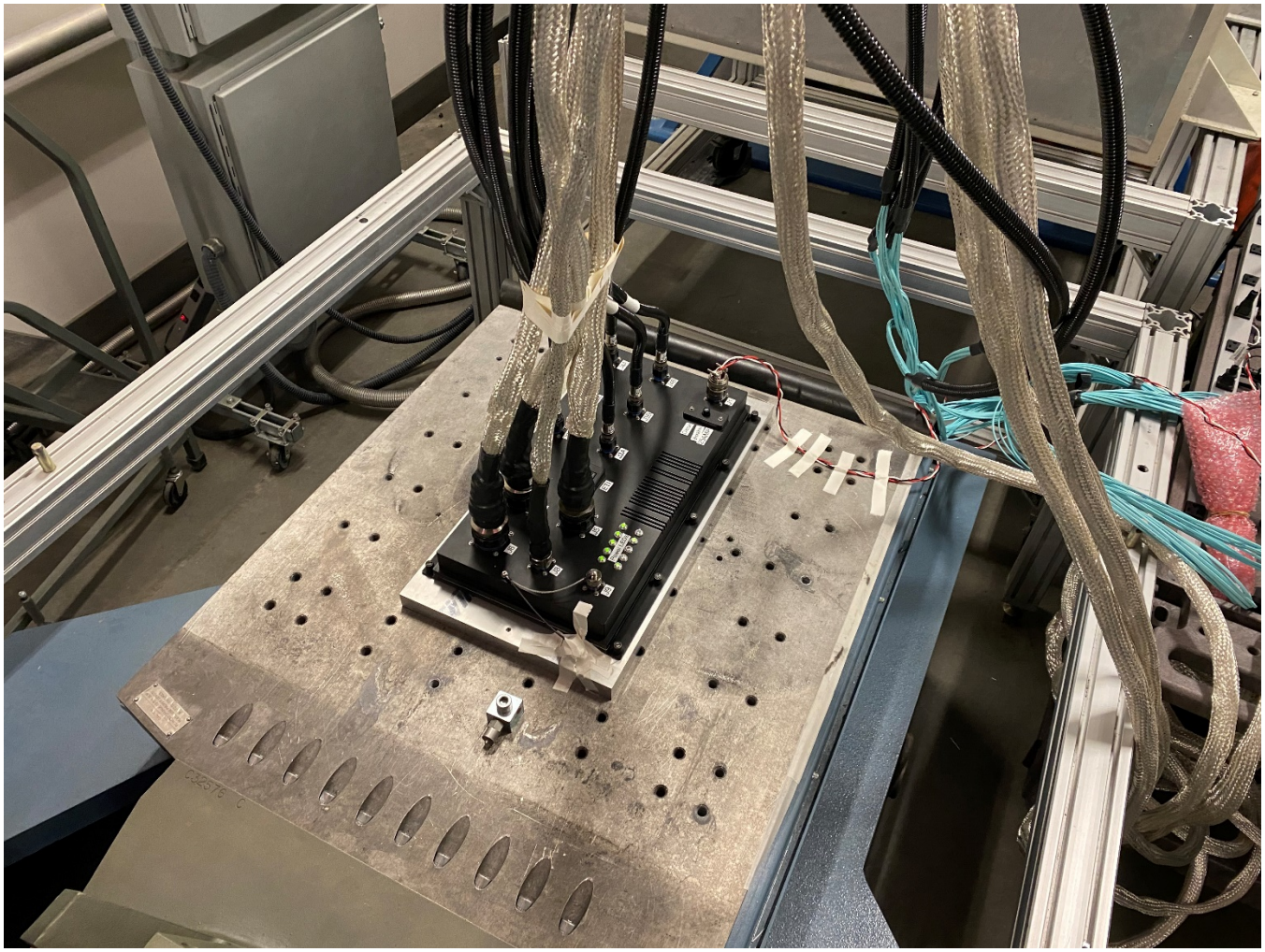
The SwitchBox **shall** withstand bench handling shock impacts, without cracking, binding or mechanical failure, or subsequent failure to operate, as per MIL-STD-810G: Method 516.6, Shock: Procedure V, Crash Hazard.

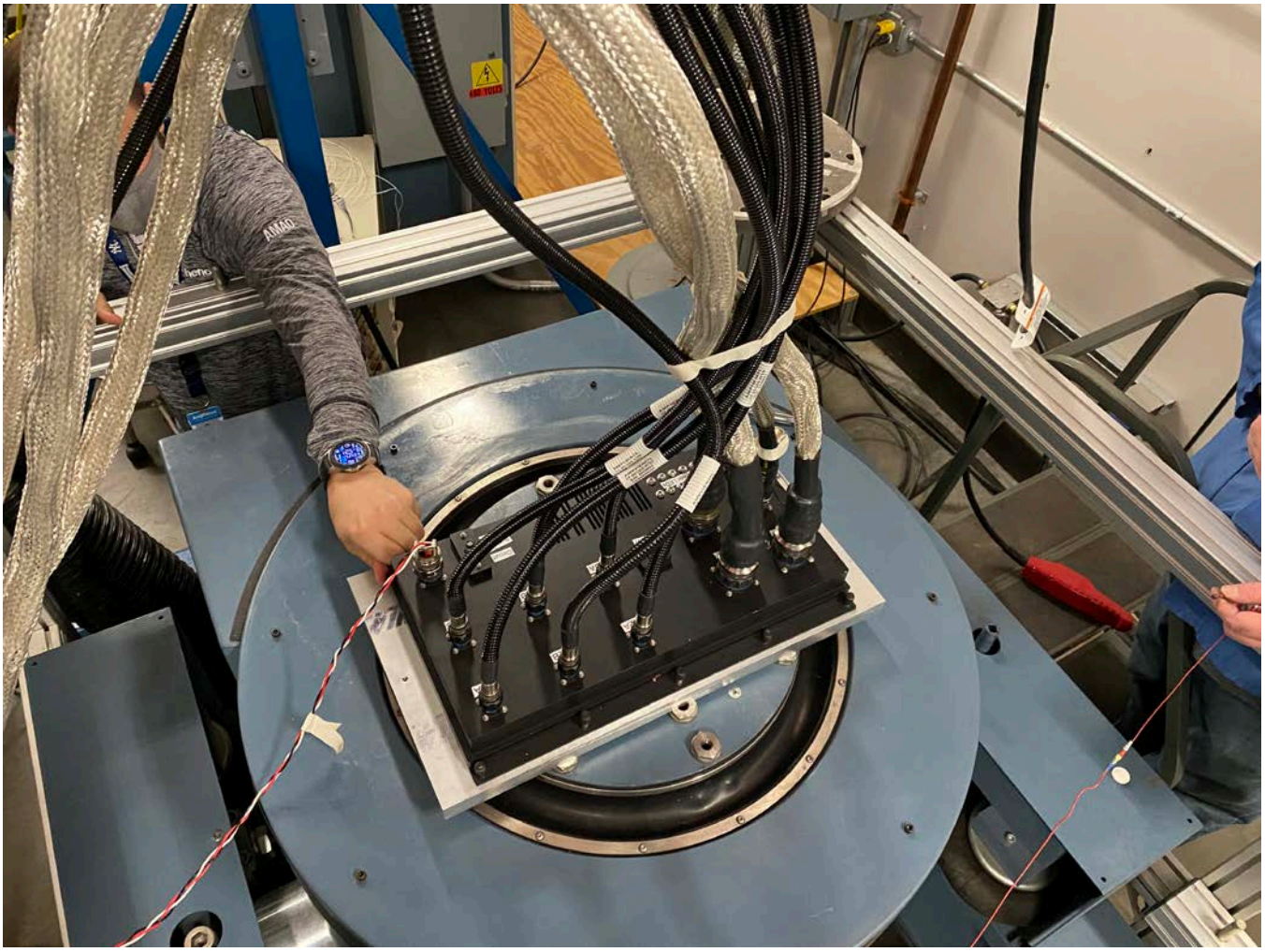
5. PICTURES OF PART UNDER TEST

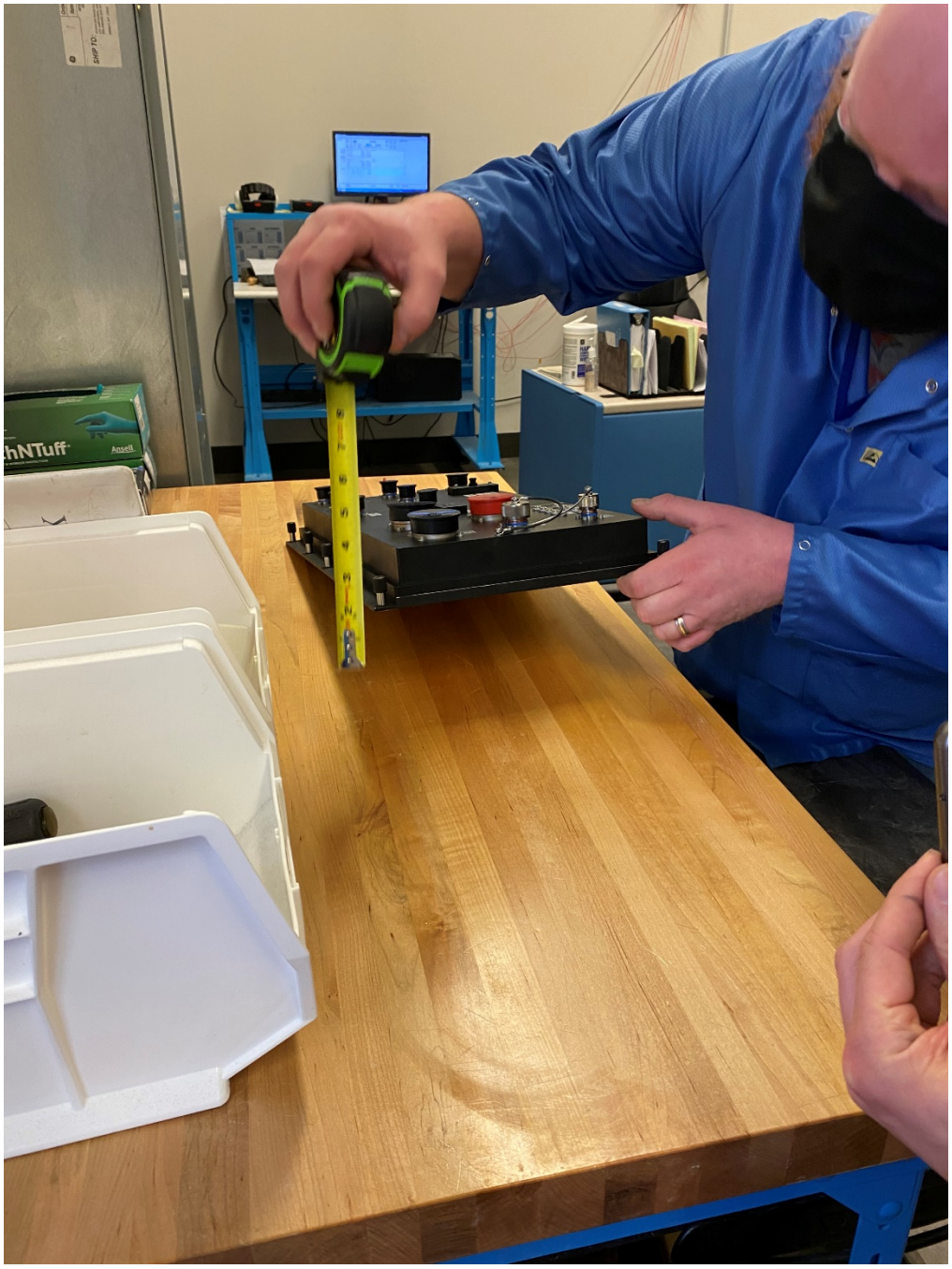




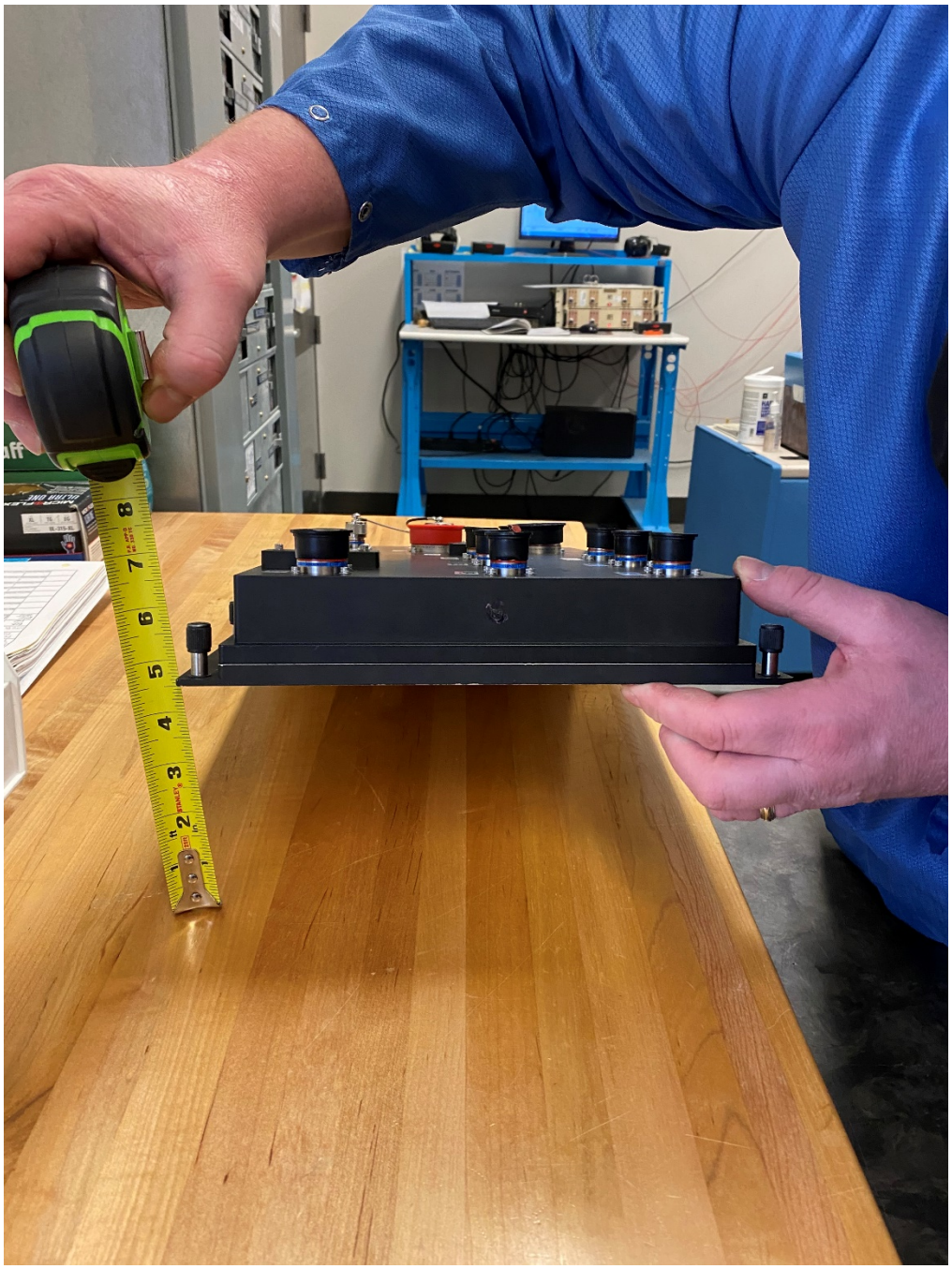









STANLEY



6. RESULT COMMENTARY

Amphenol performed sinusoidal vibration for performance curves A and B and endurance curve C.

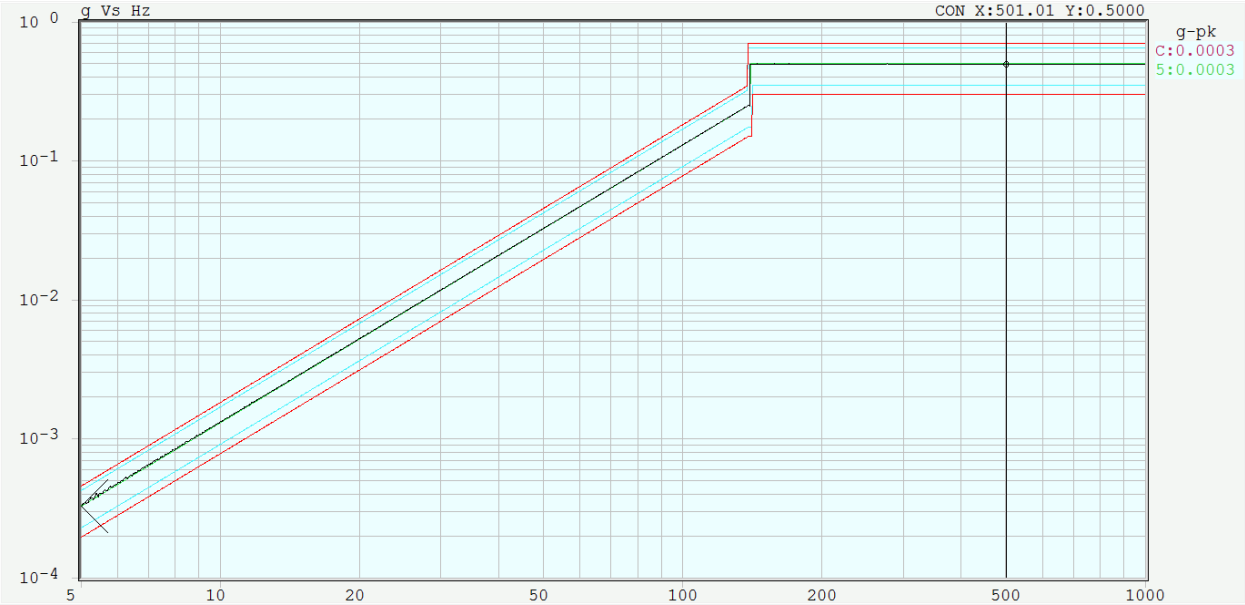
Amphenol performed half sine wave functional impact shock levels.

Amphenol used test cables as documented during the time of testing. The copper Ethernet cables (CA-628485-G09X variety) are looped on each other at the RJ-45 end points. These cables are heavy and have wear and tear associated with typical environmental test processes. Various ultra-small amounts of packet errors occur on these interfaces at ambient with no external environmental conditions being applied.

Finally, performance results show received packet error rates. Each packet is 1,024 bits. A packet error is defined by a packet with at least one bit error. Because of this, the bit error rate (not calculated) is obviously much lower than the packet error rate.

6.1 Y Axis Test Results Test Performed on 2/17/2021 at Amphenol Aerospace in Sidney, NY

6.1.1 Performance Curve A 15 mins



6.1.1.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00

32	Fiber	10Gb	0.00E+00	0.00E+00
33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
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44	Fiber	10Gb	0.00E+00	0.00E+00
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46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
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49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
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69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		

86	1GBase-T	1Gb	0.00E+00	0.00E+00
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	4.11E-10
95	1GBase-T	1Gb	2.72E-09	8.22E-10
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
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108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
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124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00

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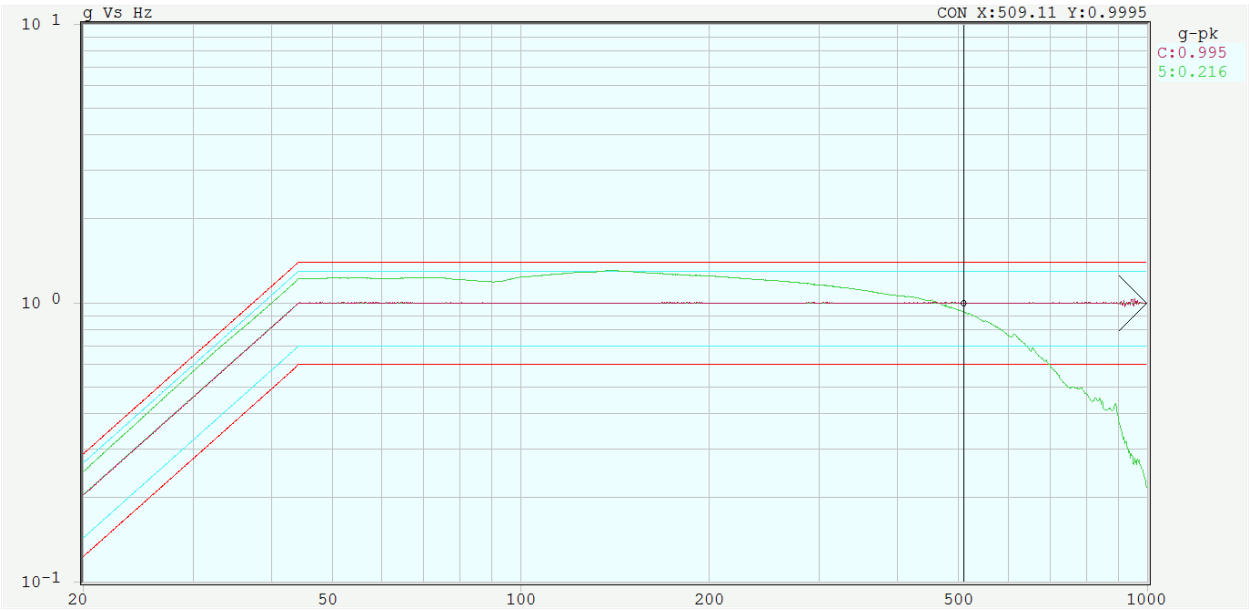
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	0.00E+00	2.77E-10
137	10GBase-T	10Gb	0.00E+00	0.00E+00
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.1.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.2 Performance Curve B 15 mins



6.1.2.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

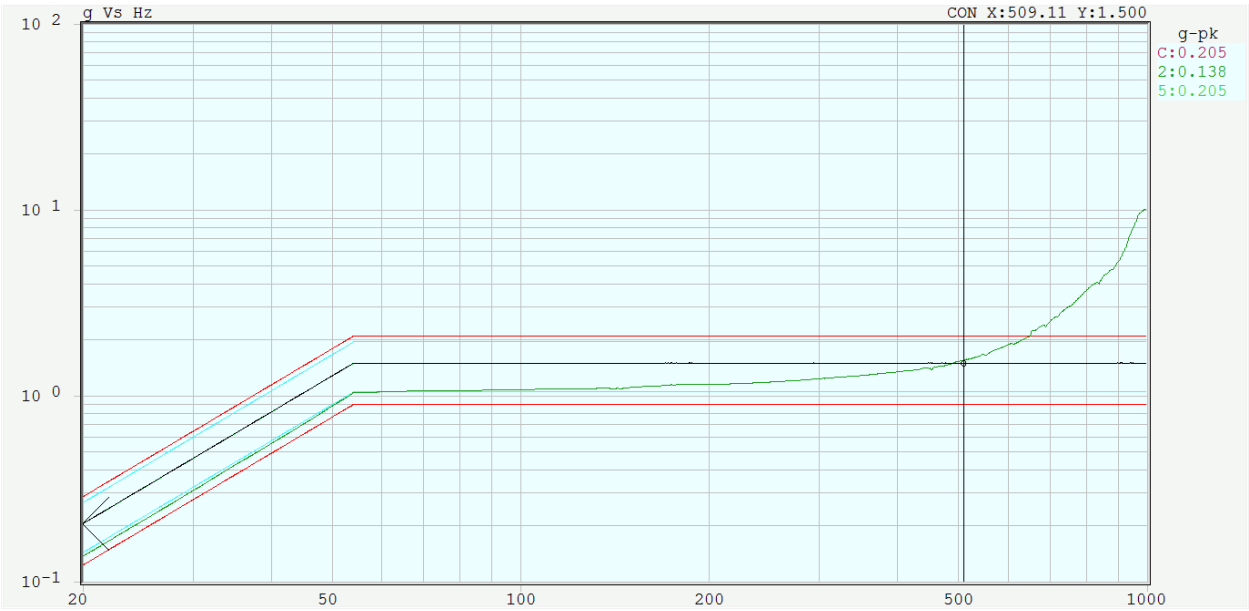
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	3.57E-10	9.06E-10
95	1GBase-T	1Gb	1.07E-09	1.81E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.41E-10	2.04E-10
137	10GBase-T	10Gb	0.00E+00	0.00E+00
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.2.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.3 Endurance Curve C 15 mins



6.1.3.1 Performance Data Before and After Test

			Endurance C	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

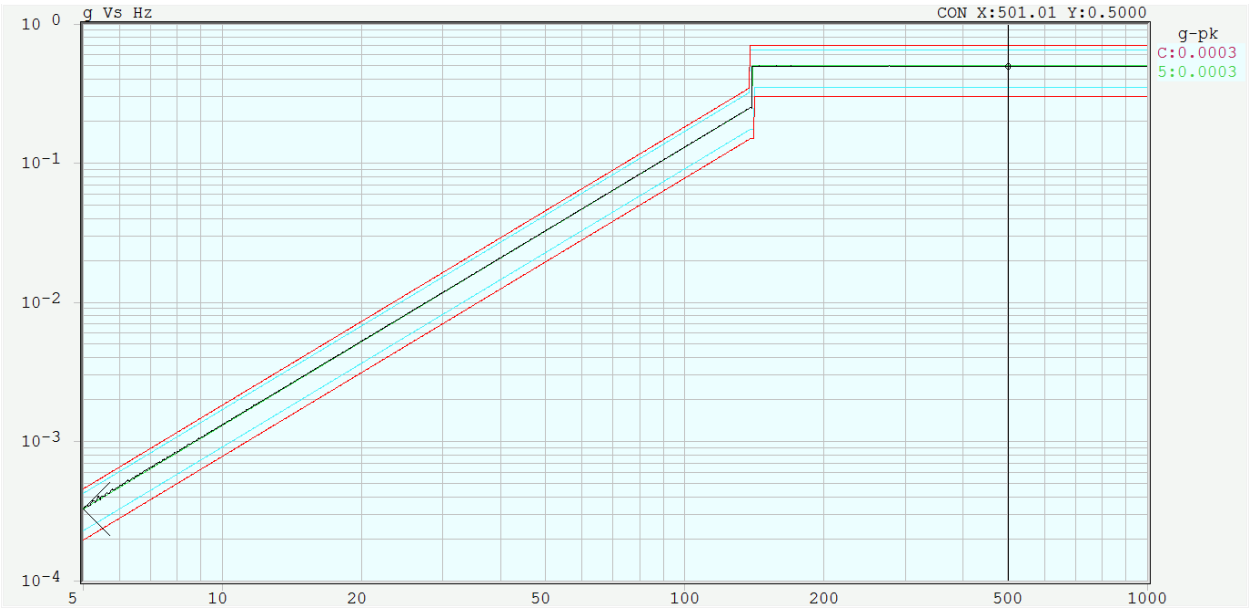
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	5.12E-10	9.61E-10
95	1GBase-T	1Gb	1.28E-09	1.92E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.31E-10	2.17E-10
137	10GBase-T	10Gb	0.00E+00	0.00E+00
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.3.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.4 Performance Curve A 15 mins



6.1.4.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

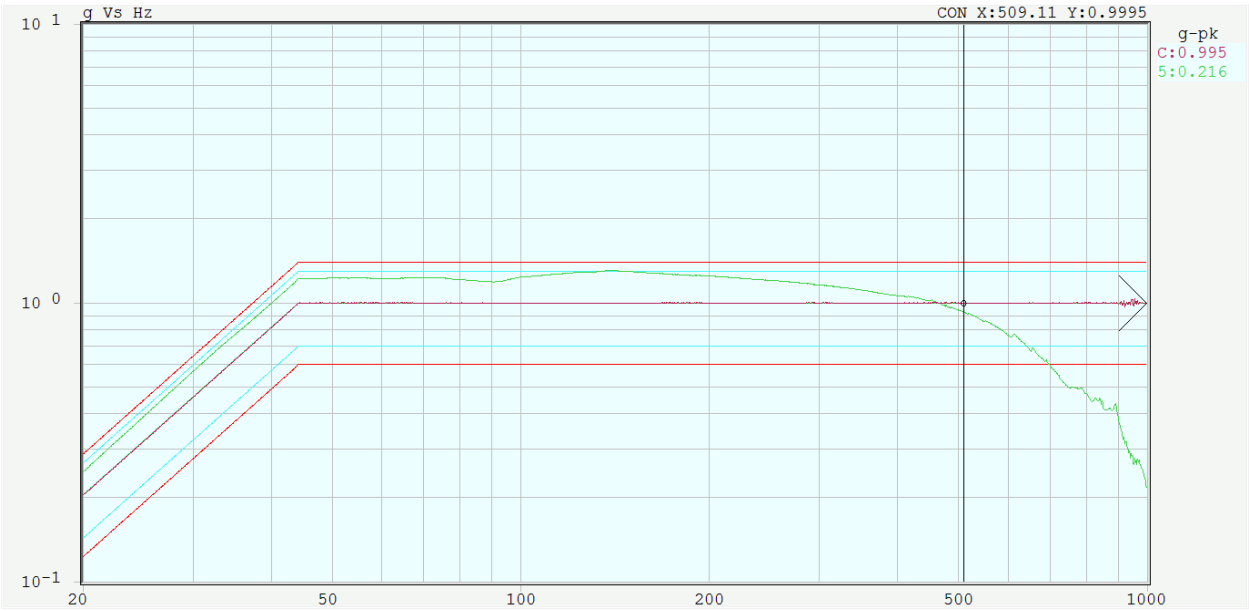
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	6.06E-10	8.53E-10
95	1GBase-T	1Gb	1.41E-09	8.53E-10
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.28E-10	3.84E-10
137	10GBase-T	10Gb	0.00E+00	3.81E-10
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.4.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.5 Performance Curve B 15 mins



6.1.5.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

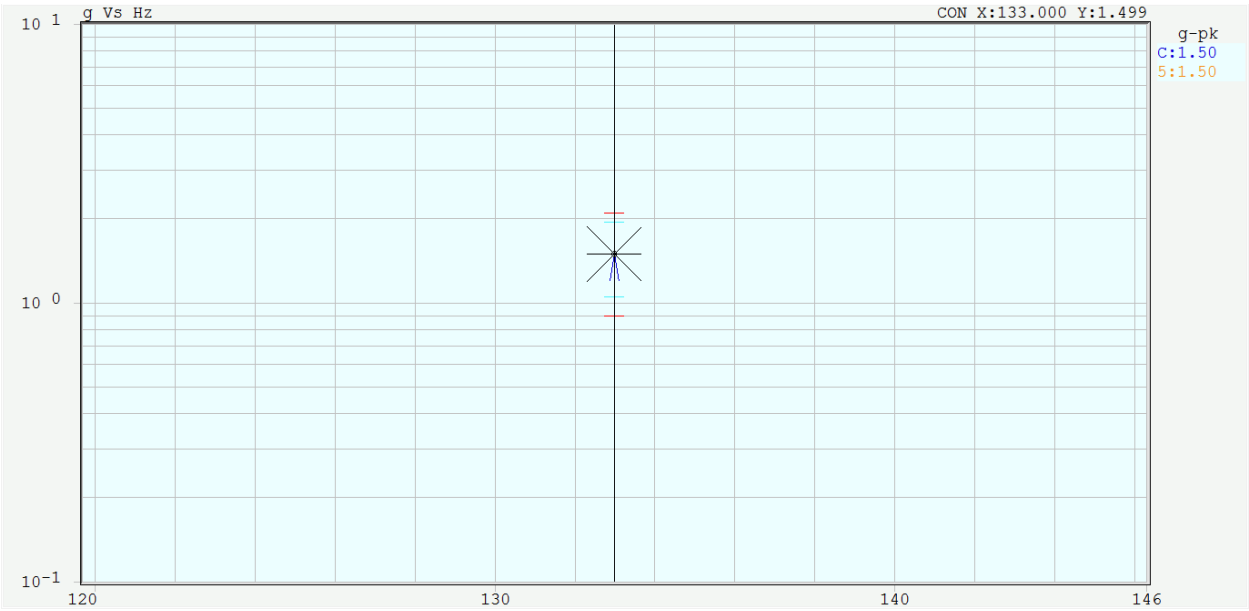
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	6.54E-10	9.17E-10
95	1GBase-T	1Gb	1.31E-09	0.00E+00
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.58E-10	0.00E+00
137	10GBase-T	10Gb	7.31E-11	0.00E+00
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.5.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.6 Sinusoidal Dwell 120 mins



6.1.6.1 Performance Data Before and After Test

			Sinusoidal Dwell	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00

32	Fiber	10Gb	0.00E+00	0.00E+00
33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		

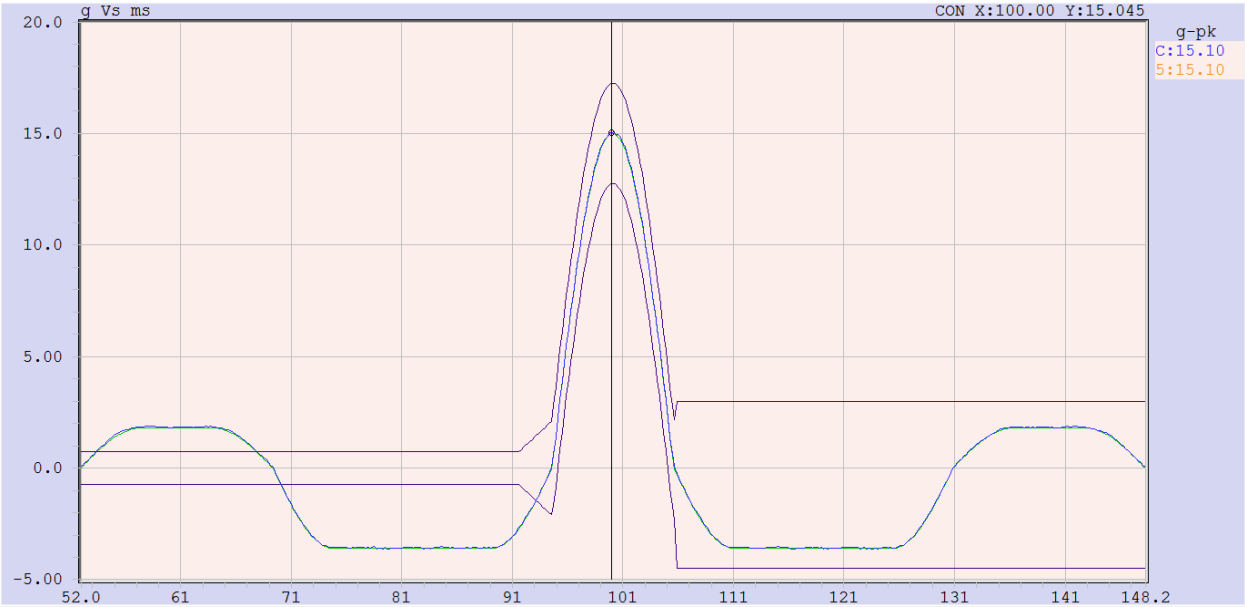
86	1GBase-T	1Gb	0.00E+00	0.00E+00
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	6.93E-10	2.62E-10
95	1GBase-T	1Gb	1.11E-09	1.44E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00

128	Fiber	1Gb	0.00E+00	0.00E+00
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.19E-10	4.13E-10
137	10GBase-T	10Gb	6.20E-11	5.86E-11
138	1GBase-T	1Gb	0.00E+00	2.62E-10
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.6.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.1.7 Functional Impact Shock



6.1.7.1 Performance Data Before and After Test

			Shock	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	4.72E-10	0.00E+00
95	1GBase-T	1Gb	1.28E-09	7.21E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

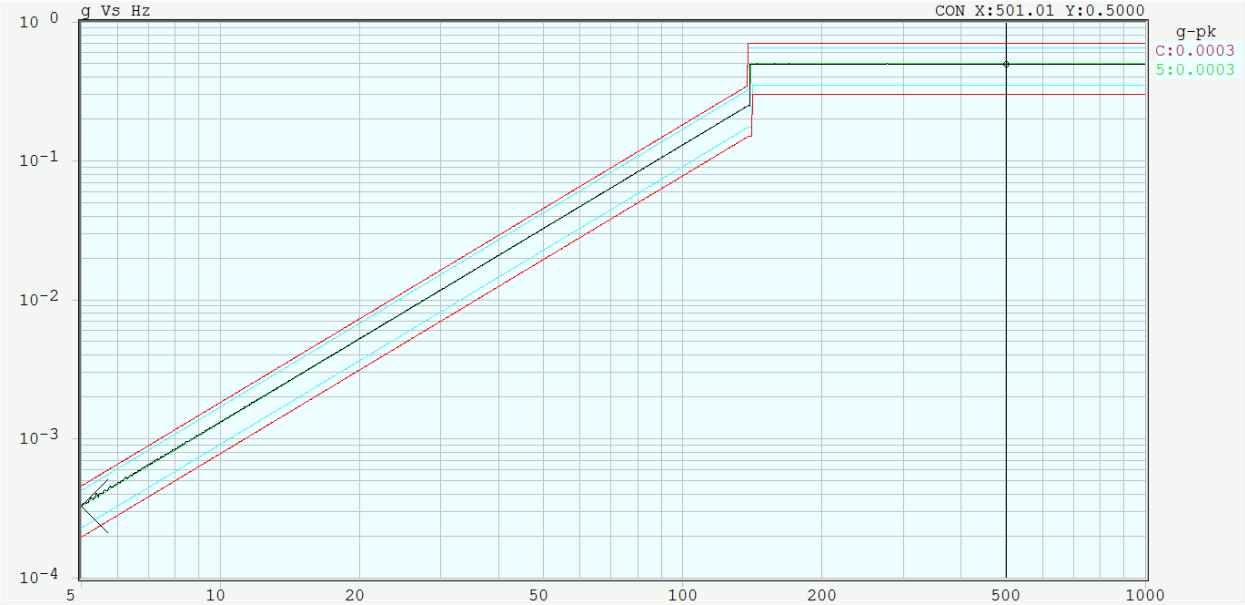
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.19E-10	0.00E+00
137	10GBase-T	10Gb	6.03E-11	0.00E+00
138	1GBase-T	1Gb	1.35E-10	7.28E-09
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.1.7.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2 X Axis Test Results Test Performed on 2/17/2021 and 2/18/2021 at Amphenol Aerospace in Sidney, NY

6.2.1 Performance Curve A 15 mins



6.2.1.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00

31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00
33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00

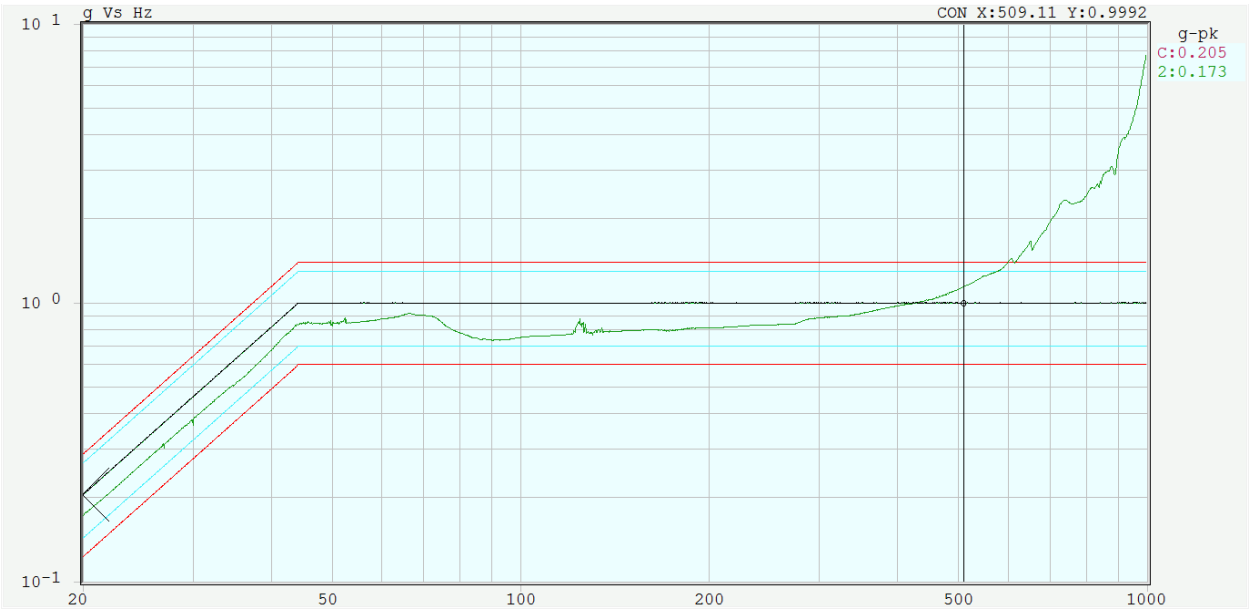
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	4.67E-10	0.00E+00
95	1GBase-T	1Gb	1.34E-09	1.47E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00

127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.16E-10	2.21E-10
137	10GBase-T	10Gb	5.97E-11	0.00E+00
138	1GBase-T	1Gb	2.00E-10	0.00E+00
139	1GBase-T	1Gb	0.00E+00	4.89E-10
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.1.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.2 Performance Curve B 15 mins



6.2.2.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

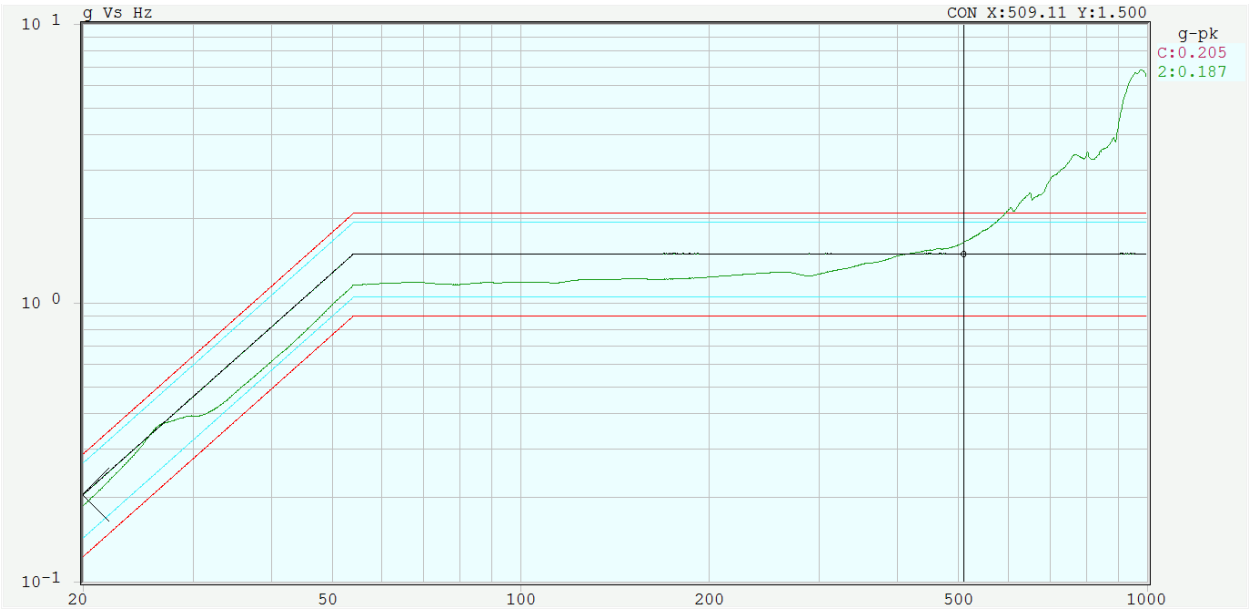
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	4.11E-10	0.00E+00
95	1GBase-T	1Gb	1.35E-09	2.91E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.05E-10	2.19E-10
137	10GBase-T	10Gb	5.25E-11	2.17E-10
138	1GBase-T	1Gb	1.76E-10	0.00E+00
139	1GBase-T	1Gb	5.88E-11	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.2.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.3 Endurance Curve C 15 mins



6.2.3.1 Performance Data Before and After Test

			Endurance C	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

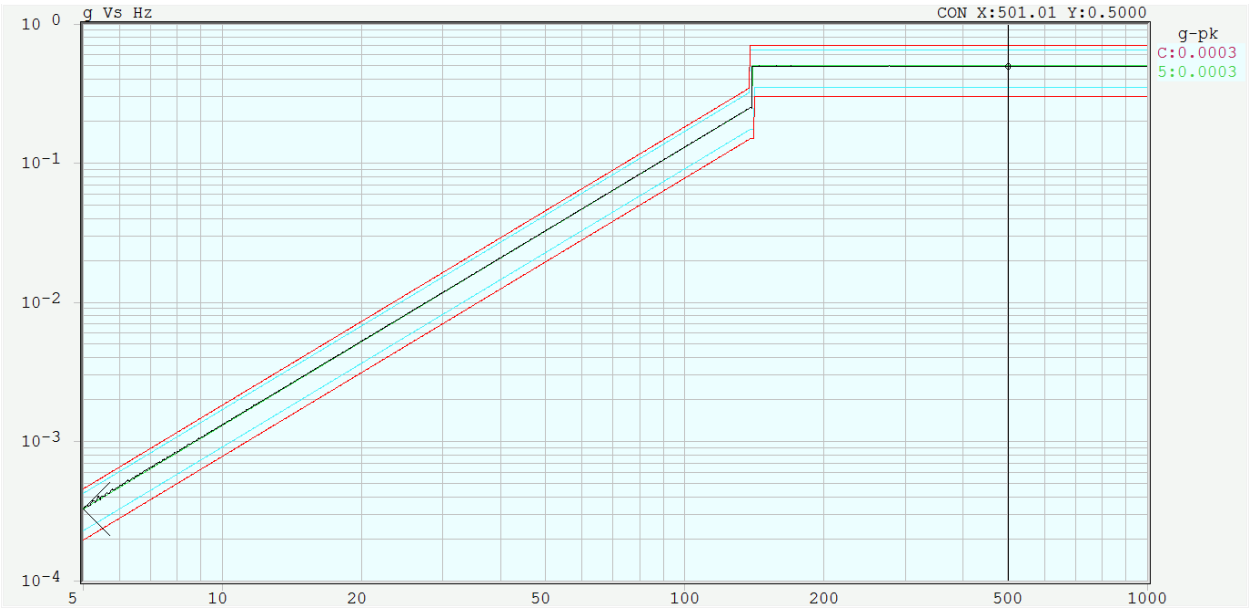
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	3.88E-10	0.00E+00
95	1GBase-T	1Gb	1.44E-09	2.00E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.00E-10	9.05E-10
137	10GBase-T	10Gb	6.19E-11	0.00E+00
138	1GBase-T	1Gb	1.66E-10	0.00E+00
139	1GBase-T	1Gb	5.54E-11	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.3.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.4 Performance Curve A 15 mins



6.2.4.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

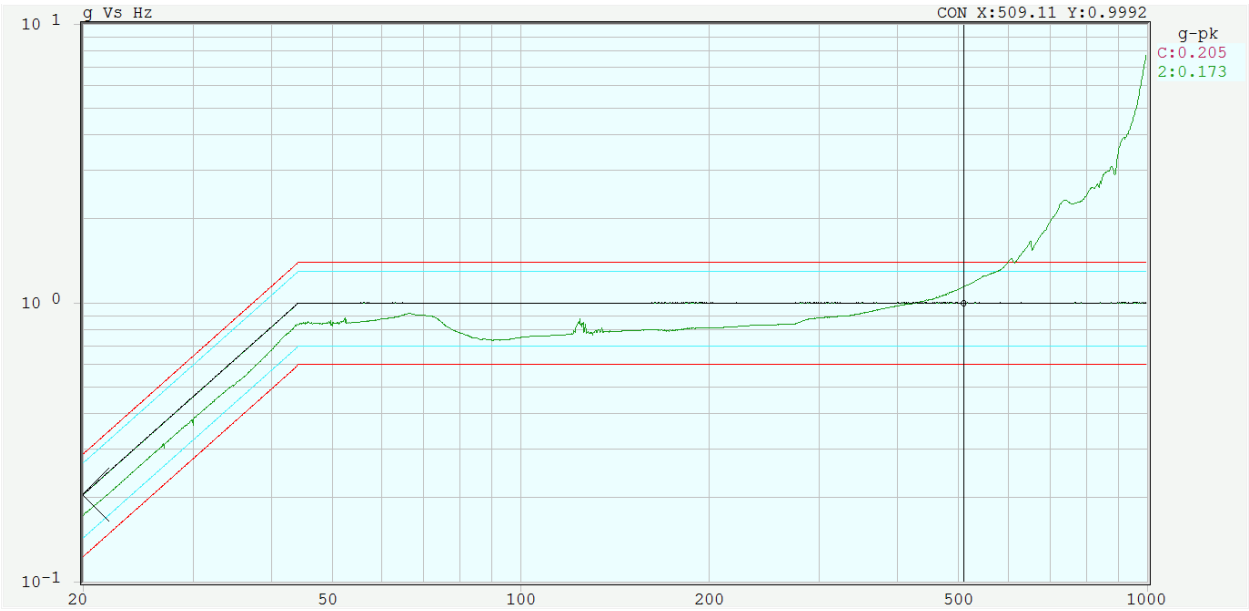
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	3.67E-10	0.00E+00
95	1GBase-T	1Gb	1.47E-09	1.02E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.31E-10	2.30E-10
137	10GBase-T	10Gb	5.87E-11	2.27E-10
138	1GBase-T	1Gb	1.57E-10	0.00E+00
139	1GBase-T	1Gb	5.25E-11	1.02E-09
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.4.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.5 Performance Curve B 15 mins



6.2.5.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

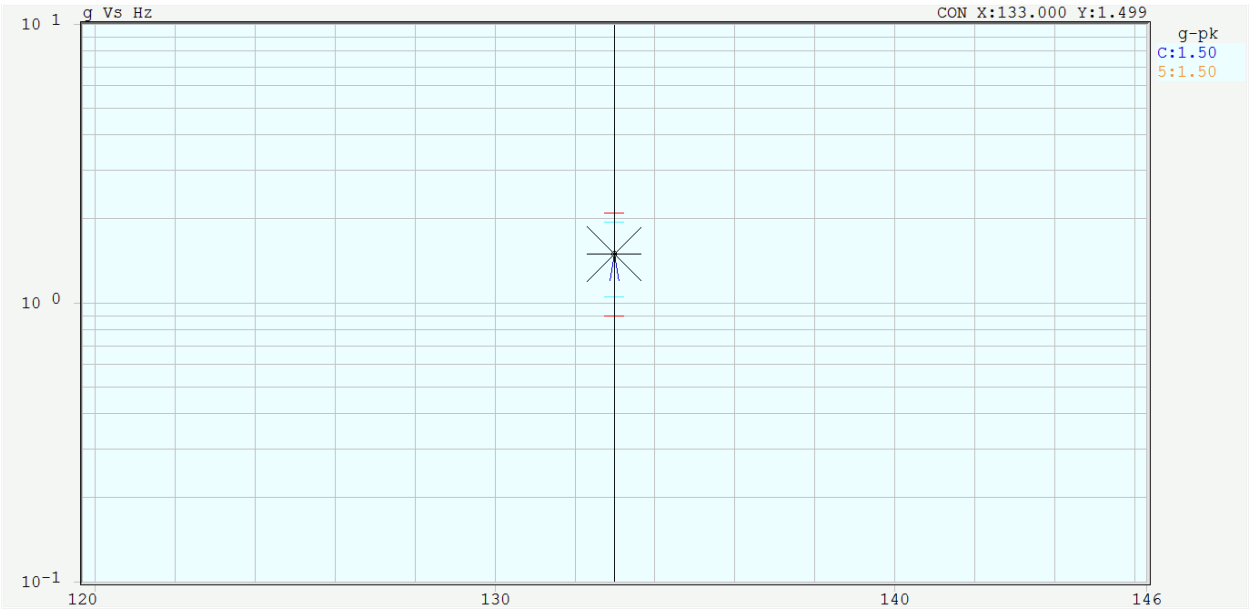
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	3.49E-10	0.00E+00
95	1GBase-T	1Gb	1.45E-09	6.13E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	3.26E-10	4.64E-10
137	10GBase-T	10Gb	6.70E-11	0.00E+00
138	1GBase-T	1Gb	1.50E-10	0.00E+00
139	1GBase-T	1Gb	9.98E-11	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.5.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.6 Sinusoidal Dwell 120 mins



6.2.6.1 Performance Data Before and After Test

			Sinusoidal Dwell	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

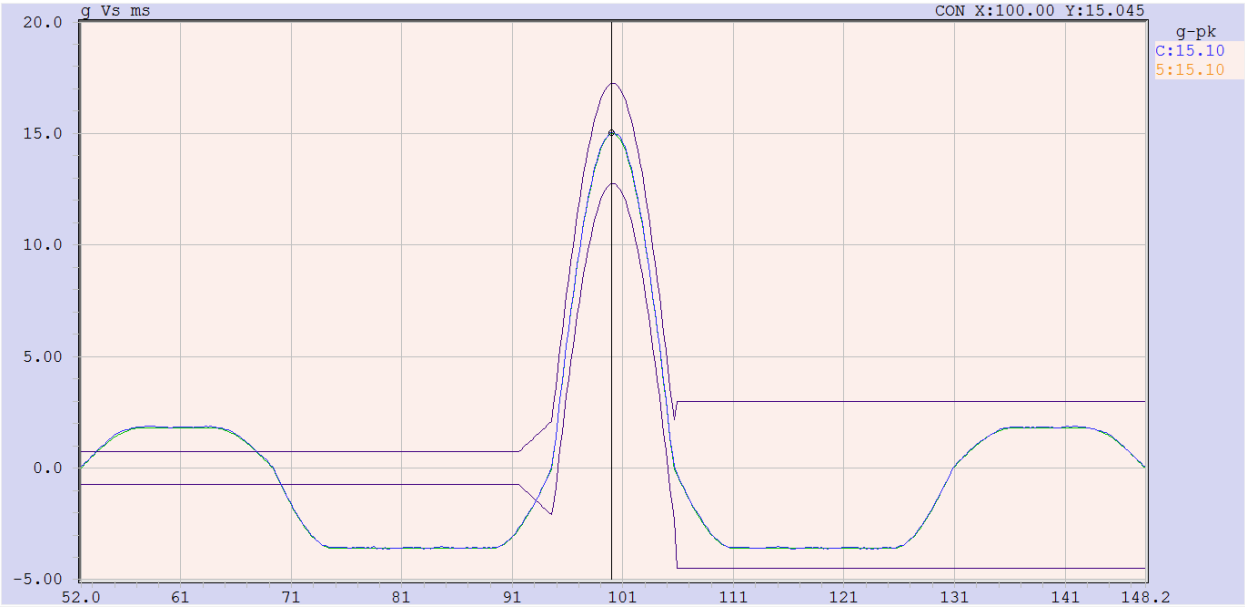
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	1.45E-09	5.14E-10
95	1GBase-T	1Gb	7.73E-09	2.18E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	4.83E-10	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	9.82E-10	8.13E-10
137	10GBase-T	10Gb	8.66E-10	6.62E-10
138	1GBase-T	1Gb	4.83E-10	3.85E-10
139	1GBase-T	1Gb	4.83E-10	1.28E-10
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.6.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.2.7 Functional Impact Shock



6.2.7.1 Performance Data Before and After Test

			Shock	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	7.10E-10	0.00E+00
95	1GBase-T	1Gb	3.35E-09	0.00E+00
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	1.01E-10	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

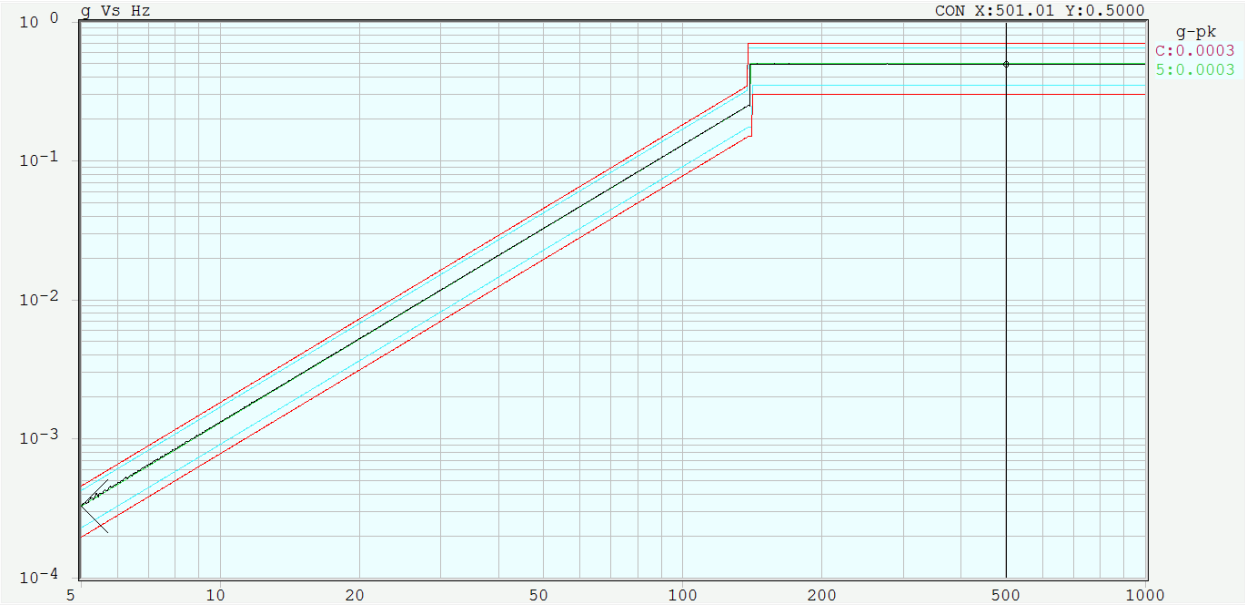
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	8.48E-10	0.00E+00
137	10GBase-T	10Gb	7.05E-10	0.00E+00
138	1GBase-T	1Gb	4.06E-10	0.00E+00
139	1GBase-T	1Gb	2.03E-10	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.2.7.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3 Z Axis Test Results Test Performed on 2/18/2021 at Amphenol Aerospace in Sidney, NY

6.3.1 Performance Curve A 15 mins



6.3.1.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00

32	Fiber	10Gb	0.00E+00	0.00E+00
33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		

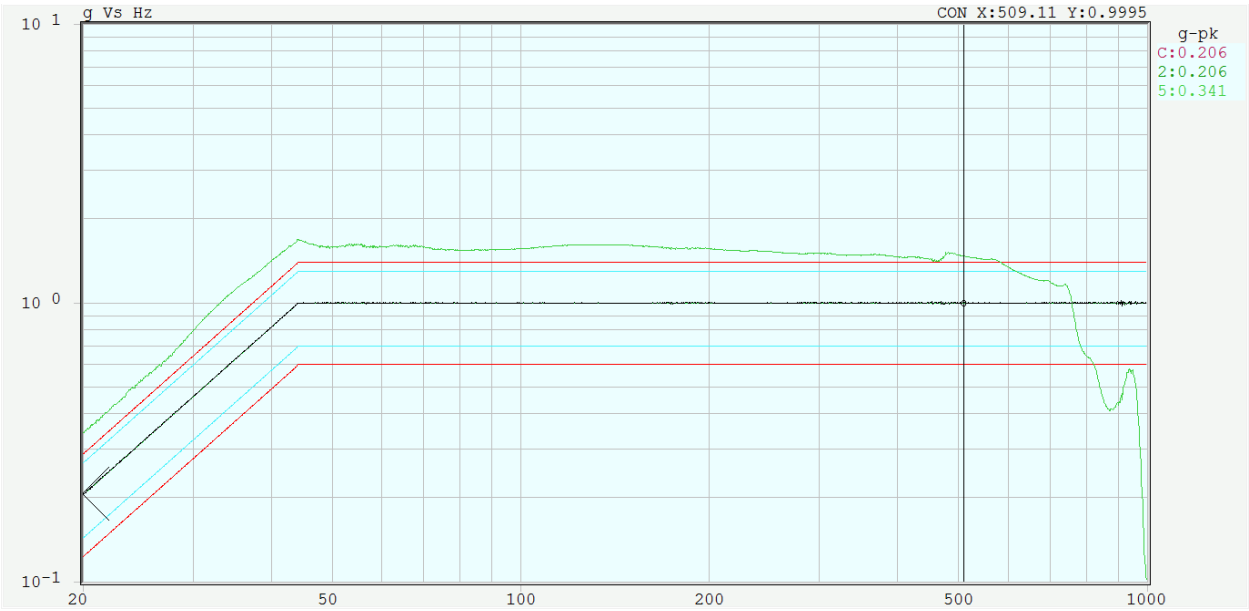
86	1GBase-T	1Gb	0.00E+00	0.00E+00
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	0.00E+00
95	1GBase-T	1Gb	6.59E-09	6.77E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00

128	Fiber	1Gb	0.00E+00	0.00E+00
129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	1.49E-09	1.84E-09
137	10GBase-T	10Gb	1.47E-09	7.54E-10
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.1.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.2 Performance Curve B 15 mins



6.3.2.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

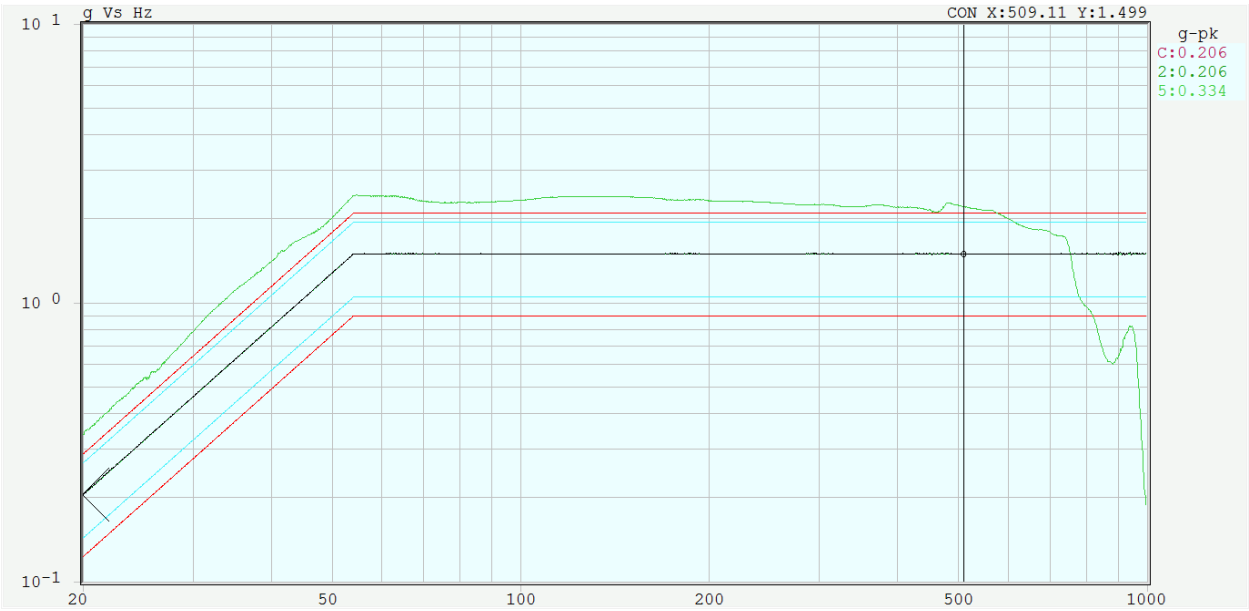
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	0.00E+00
95	1GBase-T	1Gb	6.74E-09	6.55E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	1.78E-09	2.32E-09
137	10GBase-T	10Gb	8.76E-10	4.17E-10
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.2.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.3 Endurance Curve C 15 mins



6.3.3.1 Performance Data Before and After Test

			Enducrance C	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

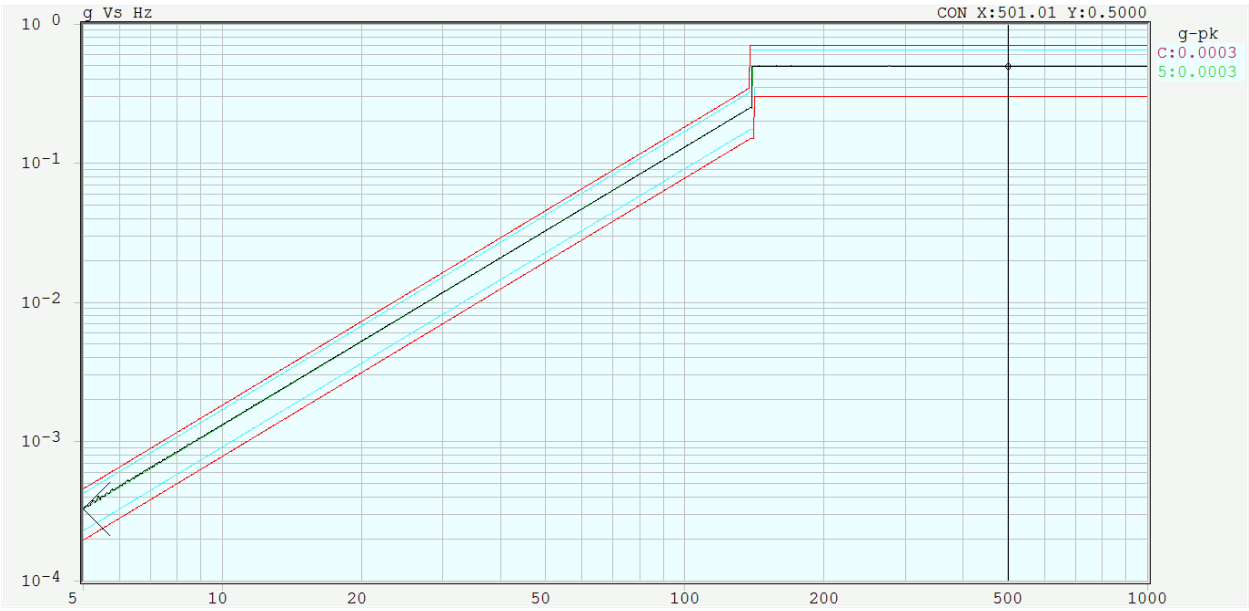
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	0.00E+00
95	1GBase-T	1Gb	6.67E-09	2.97E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	1.98E-09	3.36E-09
137	10GBase-T	10Gb	7.04E-10	1.10E-09
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	0.00E+00	9.91E-10
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.3.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.4 Performance Curve A 15 mins



6.3.4.1 Performance Data Before and After Test

			Performance A	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

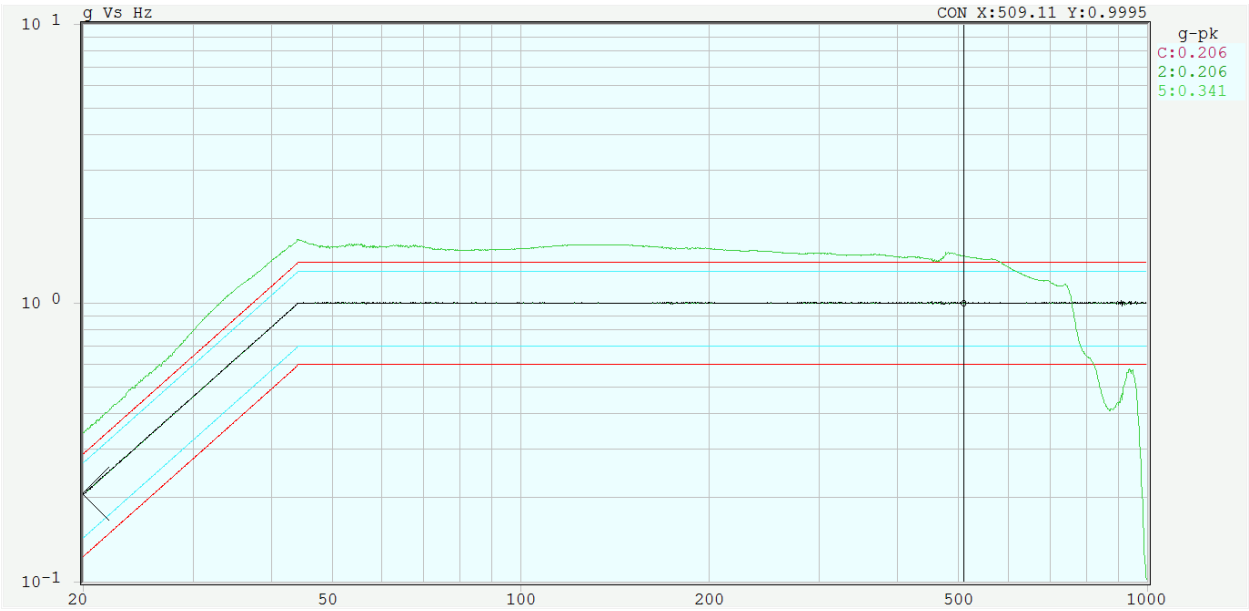
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	0.00E+00
95	1GBase-T	1Gb	5.70E-09	9.50E-10
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.34E-09	1.50E-09
137	10GBase-T	10Gb	8.08E-10	4.23E-10
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	2.59E-10	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.4.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.5 Performance Curve B 15 mins



6.3.5.1 Performance Data Before and After Test

			Performance B	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

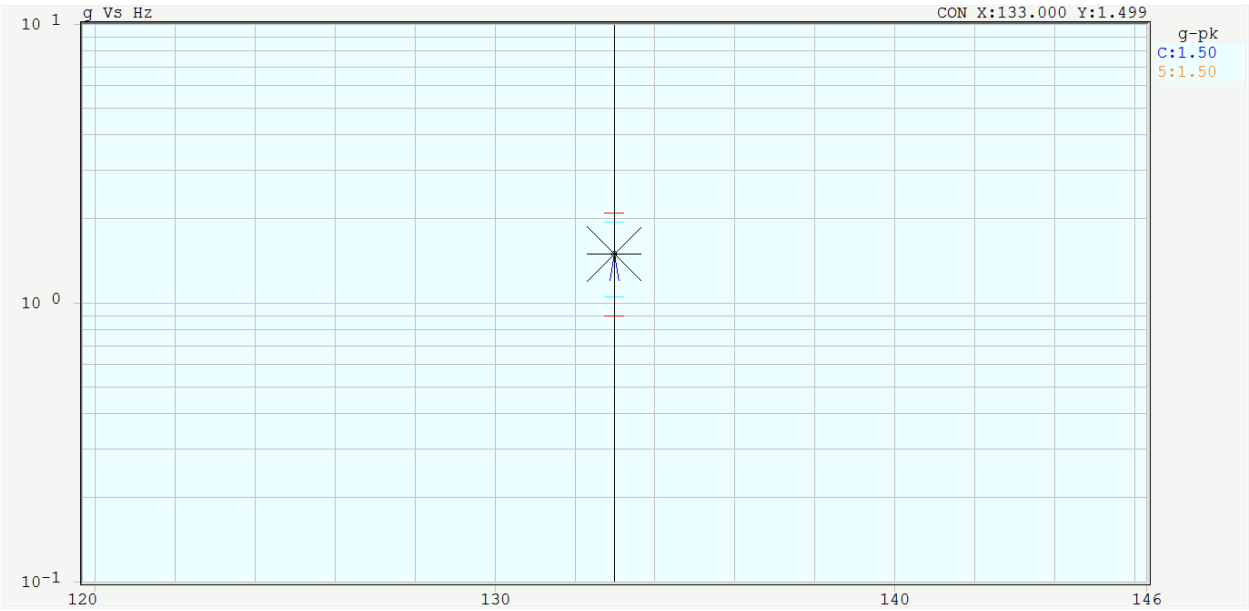
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	0.00E+00
95	1GBase-T	1Gb	4.68E-09	5.89E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.16E-09	2.22E-09
137	10GBase-T	10Gb	7.26E-10	8.75E-10
138	1GBase-T	1Gb	0.00E+00	0.00E+00
139	1GBase-T	1Gb	2.04E-10	0.00E+00
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.5.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.6 Sinusoidal Dwell 120 mins



6.3.6.1 Performance Data Before and After Test

			Sinusoidal Dwell	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

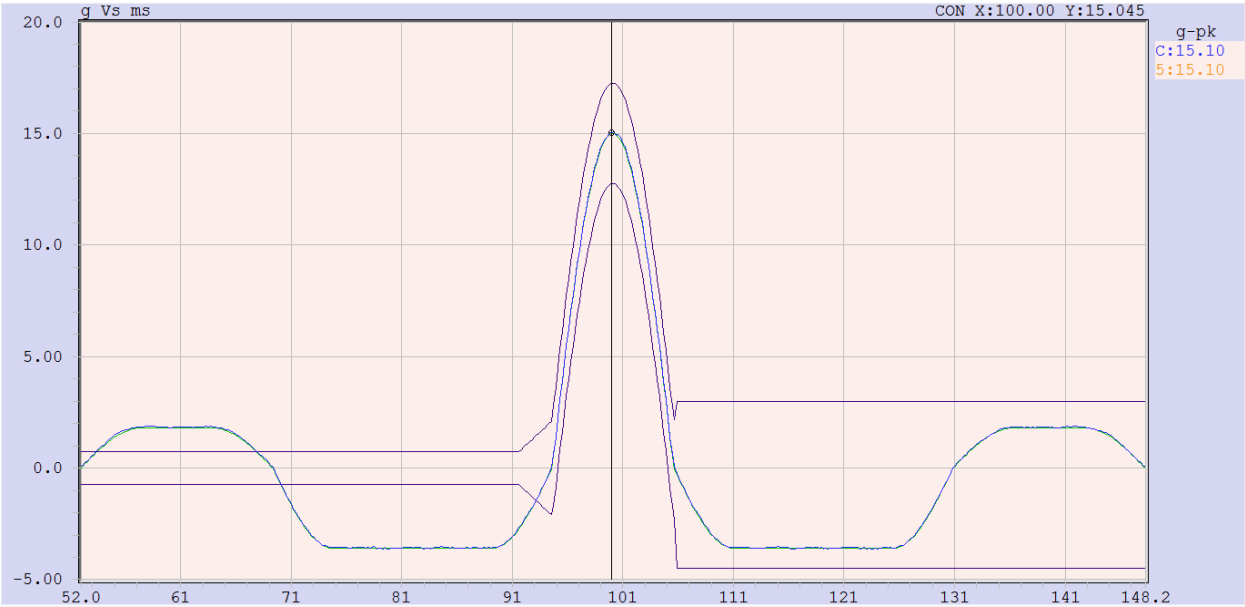
87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	0.00E+00	2.63E-10
95	1GBase-T	1Gb	4.89E-09	3.55E-09
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.17E-09	2.38E-09
137	10GBase-T	10Gb	7.51E-10	6.45E-10
138	1GBase-T	1Gb	0.00E+00	3.95E-10
139	1GBase-T	1Gb	1.69E-10	3.95E-10
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.6.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.3.7 Functional Impact Shock



6.3.7.1 Performance Data Before and After Test

			Shock	
Port	**Position**	**Speed**	**Pre PER**	**Post PER**
13	Fiber	10Gb	0.00E+00	0.00E+00
14	Fiber	10Gb	0.00E+00	0.00E+00
15	Fiber	10Gb	0.00E+00	0.00E+00
16	Fiber	10Gb	0.00E+00	0.00E+00
17	Fiber	10Gb	0.00E+00	0.00E+00
18	Fiber	10Gb	0.00E+00	0.00E+00
19	Fiber	10Gb	0.00E+00	0.00E+00
20	Fiber	10Gb	0.00E+00	0.00E+00
21	Fiber	10Gb	0.00E+00	0.00E+00
22	Fiber	10Gb	0.00E+00	0.00E+00
23	10GBase-T	10Gb	0.00E+00	0.00E+00
24	10GBase-T	10Gb	0.00E+00	0.00E+00
25	Fiber	10Gb	0.00E+00	0.00E+00
26	Fiber	10Gb	0.00E+00	0.00E+00
27	Fiber	10Gb	0.00E+00	0.00E+00
28	Fiber	10Gb	0.00E+00	0.00E+00
29	Fiber	10Gb	0.00E+00	0.00E+00
30	Fiber	10Gb	0.00E+00	0.00E+00
31	Fiber	10Gb	0.00E+00	0.00E+00
32	Fiber	10Gb	0.00E+00	0.00E+00

33	Fiber	10Gb	0.00E+00	0.00E+00
34	Fiber	10Gb	0.00E+00	0.00E+00
35	Fiber	10Gb	0.00E+00	0.00E+00
36	Fiber	10Gb	0.00E+00	0.00E+00
37	Fiber	10Gb	0.00E+00	0.00E+00
38	Fiber	10Gb	0.00E+00	0.00E+00
39	Fiber	10Gb	0.00E+00	0.00E+00
40	Fiber	10Gb	0.00E+00	0.00E+00
41	Fiber	10Gb	0.00E+00	0.00E+00
42	Fiber	10Gb	0.00E+00	0.00E+00
43	Fiber	10Gb	0.00E+00	0.00E+00
44	Fiber	10Gb	0.00E+00	0.00E+00
45	Fiber	10Gb	0.00E+00	0.00E+00
46	Fiber	10Gb	0.00E+00	0.00E+00
47	Fiber	10Gb	0.00E+00	0.00E+00
48	Fiber	10Gb	0.00E+00	0.00E+00
49	Fiber	10Gb	0.00E+00	0.00E+00
50	Fiber	10Gb	0.00E+00	0.00E+00
51	Fiber	10Gb	0.00E+00	0.00E+00
52	Fiber	10Gb	0.00E+00	0.00E+00
53	Fiber	10Gb	0.00E+00	0.00E+00
54	Fiber	10Gb	0.00E+00	0.00E+00
55	Fiber	10Gb	0.00E+00	0.00E+00
56	Fiber	10Gb	0.00E+00	0.00E+00
57	Fiber	10Gb	0.00E+00	0.00E+00
58	Fiber	10Gb	0.00E+00	0.00E+00
59	Fiber	10Gb	0.00E+00	0.00E+00
60	Fiber	10Gb	0.00E+00	0.00E+00
61	Fiber	10Gb	0.00E+00	0.00E+00
62	Fiber	10Gb	0.00E+00	0.00E+00
63	Fiber	10Gb	0.00E+00	0.00E+00
64	Fiber	10Gb	0.00E+00	0.00E+00
65	Fiber	10Gb	0.00E+00	0.00E+00
66	Fiber	10Gb	0.00E+00	0.00E+00
67	Fiber	10Gb	0.00E+00	0.00E+00
68	Fiber	10Gb	0.00E+00	0.00E+00
69	Fiber	10Gb	0.00E+00	0.00E+00
70	Fiber	10Gb	0.00E+00	0.00E+00
71	Fiber	10Gb	0.00E+00	0.00E+00
72	Fiber	10Gb	0.00E+00	0.00E+00
73	CPU	1G		
86	1GBase-T	1Gb	0.00E+00	0.00E+00

87	1GBase-T	1Gb	0.00E+00	0.00E+00
88	1GBase-T	1Gb	0.00E+00	0.00E+00
89	1GBase-T	1Gb	0.00E+00	0.00E+00
90	1GBase-T	1Gb	0.00E+00	0.00E+00
91	1GBase-T	1Gb	0.00E+00	0.00E+00
92	1GBase-T	1Gb	0.00E+00	0.00E+00
93	1GBase-T	1Gb	0.00E+00	0.00E+00
94	1GBase-T	1Gb	1.48E-10	0.00E+00
95	1GBase-T	1Gb	4.14E-09	0.00E+00
96	1GBase-T	1Gb	0.00E+00	0.00E+00
97	1GBase-T	1Gb	0.00E+00	0.00E+00
98	Fiber	1Gb	0.00E+00	0.00E+00
99	Fiber	1Gb	0.00E+00	0.00E+00
100	Fiber	1Gb	0.00E+00	0.00E+00
101	Fiber	1Gb	0.00E+00	0.00E+00
102	Fiber	1Gb	0.00E+00	0.00E+00
103	Fiber	1Gb	0.00E+00	0.00E+00
104	Fiber	1Gb	0.00E+00	0.00E+00
105	Fiber	1Gb	0.00E+00	0.00E+00
106	Fiber	1Gb	0.00E+00	0.00E+00
107	Fiber	1Gb	0.00E+00	0.00E+00
108	Fiber	1Gb	0.00E+00	0.00E+00
109	Fiber	1Gb	0.00E+00	0.00E+00
110	Fiber	1Gb	0.00E+00	0.00E+00
111	Fiber	1Gb	0.00E+00	0.00E+00
112	Fiber	1Gb	0.00E+00	0.00E+00
113	Fiber	1Gb	0.00E+00	0.00E+00
114	Fiber	1Gb	0.00E+00	0.00E+00
115	Fiber	1Gb	0.00E+00	0.00E+00
116	Fiber	1Gb	0.00E+00	0.00E+00
117	Fiber	1Gb	0.00E+00	0.00E+00
118	Fiber	1Gb	0.00E+00	0.00E+00
119	Fiber	1Gb	0.00E+00	0.00E+00
120	Fiber	1Gb	0.00E+00	0.00E+00
121	Fiber	1Gb	0.00E+00	0.00E+00
122	Fiber	1Gb	0.00E+00	0.00E+00
123	Fiber	1Gb	0.00E+00	0.00E+00
124	Fiber	1Gb	0.00E+00	0.00E+00
125	Fiber	1Gb	0.00E+00	0.00E+00
126	Fiber	1Gb	0.00E+00	0.00E+00
127	Fiber	1Gb	0.00E+00	0.00E+00
128	Fiber	1Gb	0.00E+00	0.00E+00

129	Fiber	1Gb	0.00E+00	0.00E+00
130	Fiber	1Gb	0.00E+00	0.00E+00
131	Fiber	1Gb	0.00E+00	0.00E+00
132	Fiber	1Gb	0.00E+00	0.00E+00
133	Fiber	1Gb	0.00E+00	0.00E+00
134	Fiber	1Gb	0.00E+00	0.00E+00
135	Fiber	1Gb	0.00E+00	0.00E+00
136	10GBase-T	10Gb	2.29E-09	0.00E+00
137	10GBase-T	10Gb	6.91E-10	0.00E+00
138	1GBase-T	1Gb	2.22E-10	0.00E+00
139	1GBase-T	1Gb	2.96E-10	1.19E-08
140	1GBase-T	1Gb	0.00E+00	0.00E+00
141	1GBase-T	1Gb	0.00E+00	0.00E+00
142	1GBase-T	1Gb	0.00E+00	0.00E+00
143	1GBase-T	1Gb	0.00E+00	0.00E+00
144	1GBase-T	1Gb	0.00E+00	0.00E+00
145	1GBase-T	1Gb	0.00E+00	0.00E+00

6.3.7.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

6.4 Bench Handling Impact Shock Test Performed on 2/17/2021 at Amphenol Aerospace in Sidney, NY

6.4.1 Performance Data After Test

SW120P>sw re

SYSTEM STATUS

NAME : SW120P
TIME : Sun Jan 20 09:47:50 2019

PCB #1 Temperature: 60 C
PCB #2 Temperature: 60 C
Phy #1 Temperature: 56 C
Phy #2 Temperature: 47 C
Phy #3 Temperature: 41 C
Phy #4 Temperature: 44 C
Phy #5 Temperature: 42 C
Phy #6 Temperature: 48 C
Switch #1 Temperature: 64 C
Switch #2 Temperature: 57 C

IGMP SNOOPING STATE : OFF

NTP STATE : ON
NTP REMOTE SERVER ADDRESS : 129.6.15.28

SNMP STATE : ON
SNMP V1:
SERVER ADDRESS:PORT : 192.169.1.21:162
COMMUNITY STRING : public
TRAPS : OFF
SNMP V2:
SERVER ADDRESS:PORT : 192.169.1.21:162
COMMUNITY STRING : secret
TRAPS : ON
SNMP V3:
SERVER ADDRESS:PORT : 192.169.1.21:162
USERNAME : admin
PASSWORD : amphenol
AUTH ENCRYPTION : MD5
PRIV ENCRYPTION : DES

SYSLOG STATE : ON
SYSLOG REMOTE SERVER ADDRESS : 192.169.1.21

HEARTBEAT PING STATE : OFF

HEARTBEAT PING PORT : MANAGEMENT
HEARTBEAT PING INTERVAL : 5 seconds
HEARTBEAT PING ADDRESS : 192.169.1.1
HEARTBEAT PING TRANSMIT COUNT : 0
HEARTBEAT PING REPLY COUNT : 0

SSH ACCESS: ON
WEBSERVER ACCESS: ON

MANAGEMENT PORT
MODE: STATIC
IP: 192.169.1.44
NETMASK: 255.255.255.0
GATEWAY: 192.169.1.1
DNS: 8.8.8.8

FABRIC PORT
MODE: CLIENT
IP: ----
NETMASK: ----
GATEWAY: ----
DNS: ----

PBIT PORTS
* NO PORTS *

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Port	Link State	Speed	Duplex	Position	Routing
1	Up	10Gb	F	ChipA<>ChipB 10G P13	ON
2	Up	10Gb	F	ChipA<>ChipB 10G P14	ON
3	Up	10Gb	F	ChipA<>ChipB 10G P15	ON
4	Up	10Gb	F	ChipA<>ChipB 10G P16	ON
5	Up	10Gb	F	ChipA<>ChipB 10G P17	ON
6	Up	10Gb	F	ChipA<>ChipB 10G P18	ON
7	Up	10Gb	F	ChipA<>ChipB 10G P19	ON
8	Up	10Gb	F	ChipA<>ChipB 10G P20	ON
9	Up	10Gb	F	ChipA<>ChipB 10G P21	ON
10	Up	10Gb	F	ChipA<>ChipB 10G P22	ON
11	Up	10Gb	F	ChipA<>ChipB 10G P23	ON
12	Up	10Gb	F	ChipA<>ChipB 10G P24	ON
13	Up	10Gb	F	Fiber Port P1	ON
14	Up	10Gb	F	Fiber Port P2	ON

15	Up	10Gb	F	Fiber Port P3	ON
16	Up	10Gb	F	Fiber Port P4	ON
17	Up	10Gb	F	Fiber Port P5	ON
18	Up	10Gb	F	Fiber Port P6	ON
19	Up	10Gb	F	Fiber Port P7	ON
20	Up	10Gb	F	Fiber Port P8	ON
21	Up	10Gb	F	Fiber Port P9	ON
22	Up	10Gb	F	Fiber Port P10	ON
23	Up	10Gb	F	10GBase-T P1	ON
24	Up	10Gb	F	10GBase-T P2	ON
25	Up	10Gb	F	Fiber Port P11	ON
26	Up	10Gb	F	Fiber Port P12	ON
27	Up	10Gb	F	Fiber Port P13	ON
28	Up	10Gb	F	Fiber Port P14	ON
29	Up	10Gb	F	Fiber Port P15	ON
30	Up	10Gb	F	Fiber Port P16	ON
31	Up	10Gb	F	Fiber Port P17	ON
32	Up	10Gb	F	Fiber Port P18	ON
33	Up	10Gb	F	Fiber Port P19	ON
34	Up	10Gb	F	Fiber Port P20	ON
35	Up	10Gb	F	Fiber Port P21	ON
36	Up	10Gb	F	Fiber Port P22	ON
37	Up	10Gb	F	Fiber Port P23	ON
38	Up	10Gb	F	Fiber Port P24	ON
39	Up	10Gb	F	Fiber Port P25	ON
40	Up	10Gb	F	Fiber Port P26	ON
41	Up	10Gb	F	Fiber Port P27	ON
42	Up	10Gb	F	Fiber Port P28	ON
43	Up	10Gb	F	Fiber Port P29	ON
44	Up	10Gb	F	Fiber Port P30	ON
45	Up	10Gb	F	Fiber Port P31	ON
46	Up	10Gb	F	Fiber Port P32	ON
47	Up	10Gb	F	Fiber Port P33	ON
48	Up	10Gb	F	Fiber Port P34	ON
49	Up	10Gb	F	Fiber Port P35	ON
50	Up	10Gb	F	Fiber Port P36	ON
51	Up	10Gb	F	Fiber Port P37	ON
52	Up	10Gb	F	Fiber Port P38	ON
53	Up	10Gb	F	Fiber Port P39	ON
54	Up	10Gb	F	Fiber Port P40	ON
55	Up	10Gb	F	Fiber Port P41	ON
56	Up	10Gb	F	Fiber Port P42	ON
57	Up	10Gb	F	Fiber Port P43	ON
58	Up	10Gb	F	Fiber Port P44	ON
59	Up	10Gb	F	Fiber Port P45	ON
60	Up	10Gb	F	Fiber Port P46	ON
61	Up	10Gb	F	Fiber Port P47	ON

62	Up	10Gb	F	Fiber Port P48	ON
63	Up	10Gb	F	Fiber Port P49	ON
64	Up	10Gb	F	Fiber Port P50	ON
65	Up	10Gb	F	Fiber Port P51	ON
66	Up	10Gb	F	Fiber Port P52	ON
67	Up	10Gb	F	Fiber Port P53	ON
68	Up	10Gb	F	Fiber Port P54	ON
69	Up	10Gb	F	Fiber Port P55	ON
70	Up	10Gb	F	Fiber Port P56	ON
71	Up	10Gb	F	Fiber Port P57	ON
72	Up	10Gb	F	Fiber Port P58	ON
73	Down	1G	-	CPU Local Port	ON
74	Up	10Gb	F	ChipB<>ChipA 10G P1	ON
75	Up	10Gb	F	ChipB<>ChipA 10G P2	ON
76	Up	10Gb	F	ChipB<>ChipA 10G P3	ON
77	Up	10Gb	F	ChipB<>ChipA 10G P4	ON
78	Up	10Gb	F	ChipB<>ChipA 10G P5	ON
79	Up	10Gb	F	ChipB<>ChipA 10G P6	ON
80	Up	10Gb	F	ChipB<>ChipA 10G P7	ON
81	Up	10Gb	F	ChipB<>ChipA 10G P8	ON
82	Up	10Gb	F	ChipB<>ChipA 10G P9	ON
83	Up	10Gb	F	ChipB<>ChipA 10G P10	ON
84	Up	10Gb	F	ChipB<>ChipA 10G P11	ON
85	Up	10Gb	F	ChipB<>ChipA 10G P12	ON
86	Up	1Gb	F	1GBase-T P3	ON
87	Up	1Gb	F	1GBase-T P4	ON
88	Up	1Gb	F	1GBase-T P5	ON
89	Up	1Gb	F	1GBase-T P6	ON
90	Up	1Gb	F	1GBase-T P7	ON
91	Up	1Gb	F	1GBase-T P8	ON
92	Up	1Gb	F	1GBase-T P9	ON
93	Up	1Gb	F	1GBase-T P10	ON
94	Up	1Gb	F	1GBase-T P11	ON
95	Up	1Gb	F	1GBase-T P12	ON
96	Up	1Gb	F	1GBase-T P13	ON
97	Up	1Gb	F	1GBase-T P14	ON
98	Up	1Gb	F	Fiber Port P59	ON
99	Up	1Gb	F	Fiber Port P60	ON
100	Up	1Gb	F	Fiber Port P61	ON
101	Up	1Gb	F	Fiber Port P62	ON
102	Up	1Gb	F	Fiber Port P63	ON
103	Up	1Gb	F	Fiber Port P64	ON
104	Up	1Gb	F	Fiber Port P65	ON
105	Up	1Gb	F	Fiber Port P66	ON
106	Up	1Gb	F	Fiber Port P67	ON
107	Up	1Gb	F	Fiber Port P68	ON
108	Up	1Gb	F	Fiber Port P69	ON

109	Up	1Gb	F	Fiber Port P70	ON
110	Up	1Gb	F	Fiber Port P71	ON
111	Up	1Gb	F	Fiber Port P72	ON
112	Up	1Gb	F	Fiber Port P73	ON
113	Up	1Gb	F	Fiber Port P74	ON
114	Up	1Gb	F	Fiber Port P75	ON
115	Up	1Gb	F	Fiber Port P76	ON
116	Up	1Gb	F	Fiber Port P77	ON
117	Up	1Gb	F	Fiber Port P78	ON
118	Up	1Gb	F	Fiber Port P79	ON
119	Up	1Gb	F	Fiber Port P80	ON
120	Up	1Gb	F	Fiber Port P81	ON
121	Up	1Gb	F	Fiber Port P82	ON
122	Up	1Gb	F	Fiber Port P83	ON
123	Up	1Gb	F	Fiber Port P84	ON
124	Up	1Gb	F	Fiber Port P85	ON
125	Up	1Gb	F	Fiber Port P86	ON
126	Up	1Gb	F	Fiber Port P87	ON
127	Up	1Gb	F	Fiber Port P88	ON
128	Up	1Gb	F	Fiber Port P89	ON
129	Up	1Gb	F	Fiber Port P90	ON
130	Up	1Gb	F	Fiber Port P91	ON
131	Up	1Gb	F	Fiber Port P92	ON
132	Up	1Gb	F	Fiber Port P93	ON
133	Up	1Gb	F	Fiber Port P94	ON
134	Up	1Gb	F	Fiber Port P95	ON
135	Up	1Gb	F	Fiber Port P96	ON
136	Up	10Gb	F	10GBase-T P15	ON
137	Up	10Gb	F	10GBase-T P16	ON
138	Up	1Gb	F	1GBase-T P17	ON
139	Up	1Gb	F	1GBase-T P18	ON
140	Up	1Gb	F	1GBase-T P19	ON
141	Up	1Gb	F	1GBase-T P20	ON
142	Up	1Gb	F	1GBase-T P21	ON
143	Up	1Gb	F	1GBase-T P22	ON
144	Up	1Gb	F	1GBase-T P23	ON
145	Up	1Gb	F	1GBase-T P24	ON

Totals: Up=144 Down=1

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Port	RxCounter	TxCounter	RxErrors	Rx/Tx Drops	MC-Rx/Tx	Position
1(0)	1554437183	1874881877	0	0/0	0/0	ChipA<>ChipB 10G P13

2(1)	1717998378	1877046545	0	0/0	0/0	ChipA<>ChipB 10G P14
3(2)	1793583921	1875056212	0	0/0	0/0	ChipA<>ChipB 10G P15
4(3)	1860239924	1876821976	0	0/0	0/0	ChipA<>ChipB 10G P16
5(4)	1762648940	1873468875	0	0/0	0/0	ChipA<>ChipB 10G P17
6(5)	1829928017	1876540332	0	0/0	0/0	ChipA<>ChipB 10G P18
7(6)	1834022453	1875104823	0	0/0	0/0	ChipA<>ChipB 10G P19
8(7)	1887932050	1876793463	0	0/0	0/0	ChipA<>ChipB 10G P20
9(8)	1836625428	1875926484	0	0/0	0/0	ChipA<>ChipB 10G P21
10(9)	1882027040	1877082501	0	0/0	0/0	ChipA<>ChipB 10G P22
11(10)	1846235196	1876679576	0	0/0	0/0	ChipA<>ChipB 10G P23
12(11)	1889250739	1877307293	0	0/0	0/0	ChipA<>ChipB 10G P24
13(12)	1828063557	1828063557	0	0/0	0/0	Fiber Port P1
14(13)	1832994197	1832994197	0	0/0	0/0	Fiber Port P2
15(14)	1815825127	1815825127	0	0/0	0/0	Fiber Port P3
16(15)	1830438533	1830438532	0	0/0	0/0	Fiber Port P4
17(16)	1835832108	1835832109	0	0/0	0/0	Fiber Port P5
18(17)	1839751930	1839751928	0	0/0	0/0	Fiber Port P6
19(18)	1839569650	1839569649	0	0/0	0/0	Fiber Port P7
20(19)	1839653498	1839653499	0	0/0	0/0	Fiber Port P8
21(20)	1865413970	1865413970	0	0/0	0/0	Fiber Port P9
22(21)	1856884301	1856884300	0	0/0	0/0	Fiber Port P10
23(22)	1872723336	1872998358	0	0/0	0/0	10GBase-T P1
24(23)	1881064712	1880864504	0	0/0	0/0	10GBase-T P2
25(24)	1853434517	1853434518	0	0/0	0/0	Fiber Port P11
26(25)	1856818216	1856818217	0	0/0	0/0	Fiber Port P12
27(26)	1856333913	1856333912	0	0/0	0/0	Fiber Port P13
28(27)	1859140157	1859140157	0	0/0	0/0	Fiber Port P14
29(28)	1863033015	1863033016	0	0/0	0/0	Fiber Port P15
30(29)	1865307411	1865307411	0	0/0	0/0	Fiber Port P16
31(30)	1862105671	1862105673	0	0/0	0/0	Fiber Port P17
32(31)	1863799617	1863799616	0	0/0	0/0	Fiber Port P18
33(32)	1858335455	1858335455	0	0/0	0/0	Fiber Port P19
34(33)	1858775817	1858775816	0	0/0	0/0	Fiber Port P20
35(34)	1856423057	1856423058	0	0/0	0/0	Fiber Port P21
36(35)	1854709008	1854709009	0	0/0	0/0	Fiber Port P22
37(36)	1854380441	1854380441	0	0/0	0/0	Fiber Port P23
38(37)	1856432087	1856432086	0	0/0	0/0	Fiber Port P24
39(38)	1857784645	1857784646	0	0/0	0/0	Fiber Port P25
40(39)	1857221080	1857221079	0	0/0	0/0	Fiber Port P26
41(40)	1859310814	1859310815	0	0/0	0/0	Fiber Port P27
42(41)	1857844001	1857844001	0	0/0	0/0	Fiber Port P28
43(42)	1859947633	1859947632	0	0/0	0/0	Fiber Port P29
44(43)	1860055992	1860055992	0	0/0	0/0	Fiber Port P30
45(44)	1857694516	1857694517	0	0/0	0/0	Fiber Port P31
46(45)	1861426839	1861426838	0	0/0	0/0	Fiber Port P32
47(46)	1859662577	1859662577	0	0/0	0/0	Fiber Port P33
48(47)	1862927423	1862927422	0	0/0	0/0	Fiber Port P34

49(48)	1856165698	1856165698	0	0/0	0/0	Fiber Port P35
50(49)	1856109239	1856109240	0	0/0	0/0	Fiber Port P36
51(50)	1859687841	1859687840	0	0/0	0/0	Fiber Port P37
52(51)	1858941789	1858941789	0	0/0	0/0	Fiber Port P38
53(52)	1861541957	1861541955	0	0/0	0/0	Fiber Port P39
54(53)	1862718158	1862718158	0	0/0	0/0	Fiber Port P40
55(54)	1864894827	1864894827	0	0/0	0/0	Fiber Port P41
56(55)	1866027480	1866027480	0	0/0	0/0	Fiber Port P42
57(56)	1866829273	1866829273	0	0/0	0/0	Fiber Port P43
58(57)	1867500546	1867500547	0	0/0	0/0	Fiber Port P44
59(58)	1864221778	1864221778	0	0/0	0/0	Fiber Port P45
60(64)	1870150456	1870150455	0	0/0	0/0	Fiber Port P46
61(65)	1868586529	1868586529	0	0/0	0/0	Fiber Port P47
62(66)	1870907746	1870907747	0	0/0	0/0	Fiber Port P48
63(67)	1869098115	1869098115	0	0/0	0/0	Fiber Port P49
64(68)	1871165914	1871165914	0	0/0	0/0	Fiber Port P50
65(69)	1868463860	1868463861	0	0/0	0/0	Fiber Port P51
66(70)	1870567768	1870567769	0	0/0	0/0	Fiber Port P52
67(71)	1868498677	1868498676	0	0/0	0/0	Fiber Port P53
68(72)	1869704866	1869704867	0	0/0	0/0	Fiber Port P54
69(73)	1867937930	1867937929	0	0/0	0/0	Fiber Port P55
70(74)	1868795277	1868795277	0	0/0	0/0	Fiber Port P56
71(75)	1871507781	1871507781	0	0/0	0/0	Fiber Port P57
72(76)	1871763588	1871763588	0	0/0	0/0	Fiber Port P58
73(77)	0	0	0	0/0	0/0	CPU Local Port
74(0)	1883535479	1561637491	0	0/0	0/0	ChipB<>ChipA 10G P1
75(1)	1884026965	1724007269	0	0/0	0/0	ChipB<>ChipA 10G P2
76(2)	1882274602	1800444043	0	0/0	0/0	ChipB<>ChipA 10G P3
77(3)	1884029029	1867466215	0	0/0	0/0	ChipB<>ChipA 10G P4
78(4)	1881951230	1770904649	0	0/0	0/0	ChipB<>ChipA 10G P5
79(5)	1884062681	1837468198	0	0/0	0/0	ChipB<>ChipA 10G P6
80(6)	1881798625	1840540924	0	0/0	0/0	ChipB<>ChipA 10G P7
81(7)	1884064555	1895242191	0	0/0	0/0	ChipB<>ChipA 10G P8
82(8)	1882122944	1842590636	0	0/0	0/0	ChipB<>ChipA 10G P9
83(9)	1883885688	1888851685	0	0/0	0/0	ChipB<>ChipA 10G P10
84(10)	1883264432	1852692510	0	0/0	0/0	ChipB<>ChipA 10G P11
85(11)	1884508671	1896499077	0	0/0	0/0	ChipB<>ChipA 10G P12
86(12)	234224525	234224524	0	0/0	0/0	1GBase-T P3
87(13)	234231585	234231609	0	0/0	0/0	1GBase-T P4
88(14)	234238493	234238493	0	0/0	0/0	1GBase-T P5
89(15)	234235647	234235647	0	0/0	0/0	1GBase-T P6
90(16)	234224926	234224926	0	0/0	0/0	1GBase-T P7
91(17)	234236831	234236832	0	0/0	0/0	1GBase-T P8
92(18)	234225810	234225809	0	0/0	0/0	1GBase-T P9
93(19)	234237861	234237861	0	0/0	0/0	1GBase-T P10
94(20)	234226559	234226559	0	0/0	0/0	1GBase-T P11
95(21)	234237619	234237618	0	0/0	0/0	1GBase-T P12

96(22)	234224996	234224997	0	0/0	0/0	1GBase-T P13
97(23)	234228781	234228780	0	0/0	0/0	1GBase-T P14
98(24)	233566844	233566844	0	0/0	0/0	Fiber Port P59
99(25)	233584726	233584727	0	0/0	0/0	Fiber Port P60
100(26)	233590743	233590742	0	0/0	0/0	Fiber Port P61
101(27)	233617615	233617615	0	0/0	0/0	Fiber Port P62
102(28)	233614504	233614503	0	0/0	0/0	Fiber Port P63
103(29)	0	0	0	0/0	0/0	Fiber Port P64
104(30)	233634891	233634892	0	0/0	0/0	Fiber Port P65
105(31)	233659138	233659138	0	0/0	0/0	Fiber Port P66
106(32)	233657620	233657620	0	0/0	0/0	Fiber Port P67
107(33)	233666748	233666749	0	0/0	0/0	Fiber Port P68
108(34)	233683409	233683409	0	0/0	0/0	Fiber Port P69
109(35)	233687661	233687661	0	0/0	0/0	Fiber Port P70
110(36)	233705240	233705241	0	0/0	0/0	Fiber Port P71
111(37)	233720065	233720064	0	0/0	0/0	Fiber Port P72
112(38)	233726642	233726642	0	0/0	0/0	Fiber Port P73
113(39)	233714746	233726731	0	0/0	0/0	Fiber Port P74
114(40)	233751332	233751332	0	0/0	0/0	Fiber Port P75
115(41)	233749551	233749551	0	0/0	0/0	Fiber Port P76
116(42)	233760311	233760312	0	0/0	0/0	Fiber Port P77
117(43)	233780710	233781113	0	0/0	0/0	Fiber Port P78
118(44)	233789519	233789519	0	0/0	0/0	Fiber Port P79
119(45)	233805048	233805048	0	0/0	0/0	Fiber Port P80
120(46)	233815723	233815723	0	0/0	0/0	Fiber Port P81
121(47)	233812636	233812640	0	0/0	0/0	Fiber Port P82
122(48)	233835180	233835180	0	0/0	0/0	Fiber Port P83
123(49)	233838674	233838674	0	0/0	0/0	Fiber Port P84
124(50)	233857475	233857475	0	0/0	0/0	Fiber Port P85
125(51)	233859649	233859648	0	0/0	0/0	Fiber Port P86
126(52)	233868296	233868296	0	0/0	0/0	Fiber Port P87
127(53)	233889705	233889706	0	0/0	0/0	Fiber Port P88
128(54)	233907530	233907530	0	0/0	0/0	Fiber Port P89
129(55)	233913931	233913931	0	0/0	0/0	Fiber Port P90
130(56)	233913348	233913348	0	0/0	0/0	Fiber Port P91
131(57)	233931629	233931629	0	0/0	0/0	Fiber Port P92
132(58)	233937727	233937727	0	0/0	0/0	Fiber Port P93
133(64)	233955645	233955645	0	0/0	0/0	Fiber Port P94
134(65)	233956744	233956744	0	0/0	0/0	Fiber Port P95
135(66)	233983622	233983622	0	0/0	0/0	Fiber Port P96
136(67)	1070911435	1070911436	0	0/0	0/0	10GBase-T P15
137(68)	1070955618	1070955620	1	0/0	0/0	10GBase-T P16
138(69)	234226979	234226979	1	0/0	0/0	1GBase-T P17
139(70)	234235467	234235467	0	0/0	0/0	1GBase-T P18
140(71)	234231875	234231875	0	0/0	0/0	1GBase-T P19
141(72)	234226076	234226076	0	0/0	0/0	1GBase-T P20
142(73)	234228213	234228213	0	0/0	0/0	1GBase-T P21

143(74)	234227271	234227271	0	0/0	0/0	1GBase-T P22
144(75)	234237490	234237491	0	0/0	0/0	1GBase-T P23
145(76)	234236256	234236256	0	0/0	0/0	1GBase-T P24

6.4.2 Results Summary

The test passed given the only packet errors (bit errors are much less given 1024 bits per packet) and statistically insignificant errors on base-T ports (related to 30 feet of aged test cables). These errors occur naturally at ambient conditions with no environmental conditions being applied to the setup. During the test, there was no link loss between any of the wrapped ports.

APPENDIX I – BASELINE/CONTINUOUS TEST

1. Baseline Test

   a. Run 120 channels operational and looped back per the table below for 1 minute. Record functional test report from CLI interface.
   b. Note → intra-switch IC ports are connected and running traffic as link partners for test also

   c. Obtain switch report from CLI interface.

Software	Box External			
CLI Port #	433 J#	433 Pin #	433 Port #	
13	J4B	15/22	Port87_10GBaseSR	Pair
14		16/21	Port88_10GBaseSR	
15	J4B	25/36	Port89_10GBaseSR	Pair
16		26/35	Port90_10GBaseSR	
17		27/34	Port91_10GBaseSR	Pair
18		28/33	Port92_10GBaseSR	
19	J4B	37/48	Port93_10GBaseSR	Pair
20		38/47	Port94_10GBaseSR	
21		39/46	Port95_10GBaseSR	Pair
22		40/45	Port96_10GBaseSR	
23	J5	A	Port97_10GBaseT	Pair
24		B	Port98_10GBaseT	
25	J2A	1/12	Port1_10GBaseSR	Pair
26		2/11	Port2_10GBaseSR	
27		3/10	Port3_10GBaseSR	Pair
28		4/9	Port4_10GBaseSR	
29	J2A	13/24	Port5_10GBaseSR	Pair
30		14/23	Port6_10GBaseSR	
31		15/22	Port7_10GBaseSR	Pair
32		16/21	Port8_10GBaseSR	
33	J2B	1/12	Port17_10GBaseSR	Pair
34		2/11	Port18_10GBaseSR	
35		3/10	Port19_10GBaseSR	Pair
36		4/9	Port20_10GBaseSR	
37	J2B	13/24	Port21_10GBaseSR	Pair
38		14/23	Port22_10GBaseSR	
39		15/22	Port23_10GBaseSR	Pair

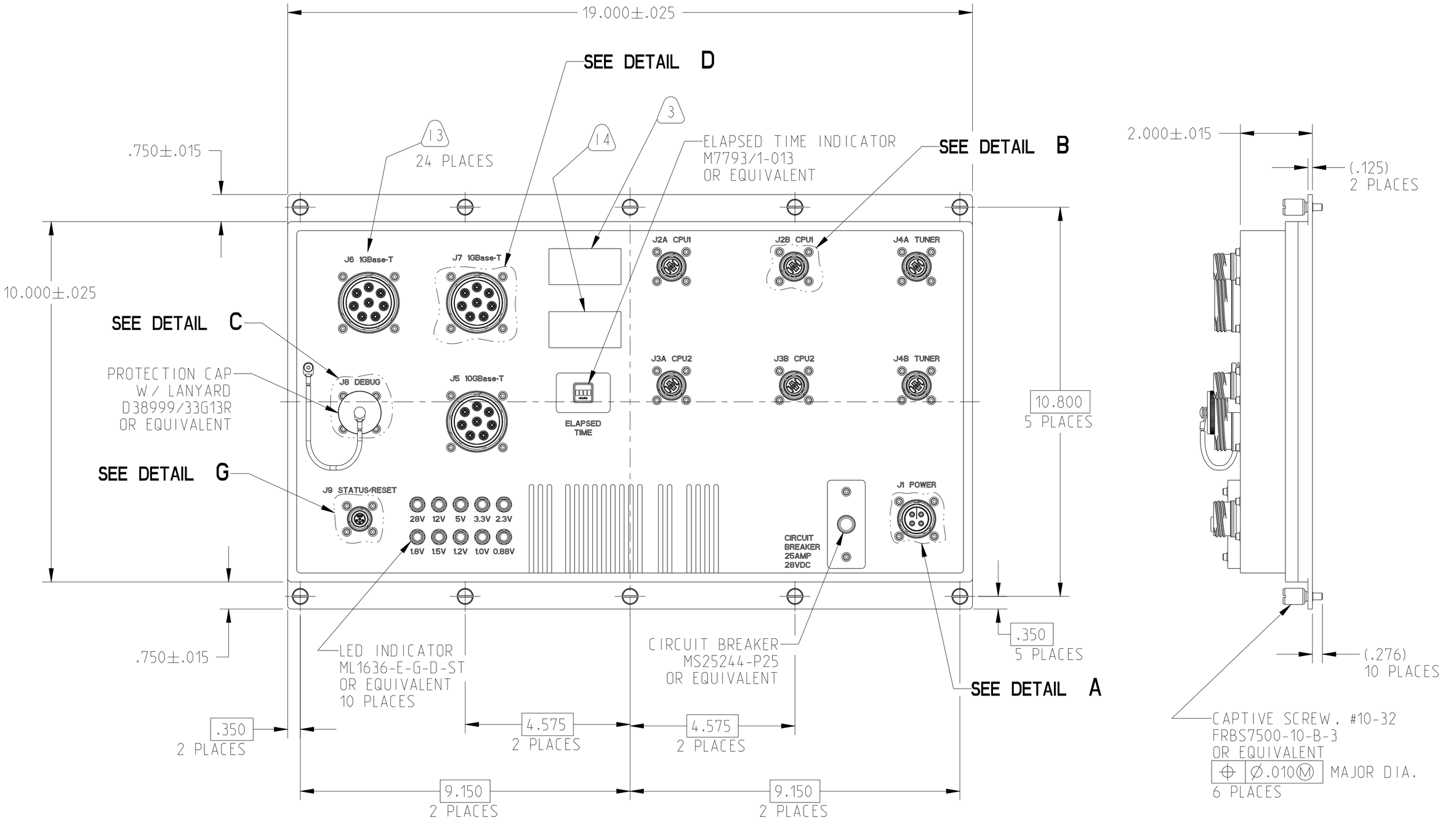
40		16/21	Port24_10GBaseSR	
41	J3A	1/12	Port33_10GBaseSR	Pair
42		2/11	Port34_10GBaseSR	
43		3/10	Port35_10GBaseSR	Pair
44		4/9	Port36_10GBaseSR	
45	J3A	13/24	Port37_10GBaseSR	Pair
46		14/23	Port38_10GBaseSR	
47		15/22	Port39_10GBaseSR	Pair
48		16/21	Port40_10GBaseSR	
49	J3B	1/12	Port49_10GBaseSR	Pair
50		2/11	Port50_10GBaseSR	
51		3/10	Port51_10GBaseSR	Pair
52		4/9	Port52_10GBaseSR	
53	J3B	13/24	Port53_10GBaseSR	Pair
54		14/23	Port54_10GBaseSR	
55		15/22	Port55_10GBaseSR	Pair
56		16/21	Port56_10GBaseSR	
57	J4A	1/12	Port65_10GBaseSR	Pair
58		2/11	Port66_10GBaseSR	
59		3/10	Port67_10GBaseSR	Pair
60		4/9	Port68_10GBaseSR	
61	J4A	13/24	Port69_10GBaseSR	Pair
62		14/23	Port70_10GBaseSR	
63		15/22	Port71_10GBaseSR	Pair
64		16/21	Port72_10GBaseSR	
65	J4A	25/36	Port73_10GBaseSR	Pair
66		26/35	Port74_10GBaseSR	
67	J4B	1/12	Port81_10GBaseSR	Pair
68		2/11	Port82_10GBaseSR	
69		3/10	Port83_10GBaseSR	Pair
70		4/9	Port84_10GBaseSR	
71	J4B	13/24	Port85_10GBaseSR	Pair
72		14/23	Port86_10GBaseSR	
86	J6	E	Port109_1GBaseT	Pair
87		F	Port110_1GBaseT	
88		G	Port111_1GBaseT	Pair
89		H	Port112_1GBaseT	
90	J7	A	Port113_1GBaseT	Pair
91		B	Port114_1GBaseT	
92		C	Port115_1GBaseT	Pair

93		D	Port116_1GBaseT	
94	J7	E	Port117_1GBaseT	Pair
95		F	Port118_1GBaseT	
96		G	Port119_1GBaseT	Pair
97		H	Port120_1GBaseT	
98	J2A	25/36	Port9_1GBaseSX	Pair
99		26/35	Port10_1GBaseSX	
100		27/34	Port11_1GBaseSX	Pair
101		28/33	Port12_1GBaseSX	
102	J2A	37/48	Port13_1GBaseSX	Pair
103		38/47	Port14_1GBaseSX	
104		39/46	Port15_1GBaseSX	Pair
105		40/45	Port16_1GBaseSX	
106	J2B	25/36	Port25_1GBaseSX	Pair
107		26/35	Port26_1GBaseSX	
108		27/34	Port27_1GBaseSX	Pair
109		28/33	Port28_1GBaseSX	
110	J2B	37/48	Port29_1GBaseSX	Pair
111		38/47	Port30_1GBaseSX	
112		39/46	Port31_1GBaseSX	Pair
113		40/45	Port32_1GBaseSX	
114	J3A	25/36	Port41_1GBaseSX	Pair
115		26/35	Port42_1GBaseSX	
116		27/34	Port43_1GBaseSX	Pair
117		28/33	Port44_1GBaseSX	
118	J3A	37/48	Port45_1GBaseSX	Pair
119		38/47	Port46_1GBaseSX	
120		39/46	Port47_1GBaseSX	Pair
121		40/45	Port48_1GBaseSX	
122	J3B	25/36	Port57_1GBaseSX	Pair
123		26/35	Port58_1GBaseSX	
124		27/34	Port59_1GBaseSX	Pair
125		28/33	Port60_1GBaseSX	
126	J3B	37/48	Port61_1GBaseSX	Pair
127		38/47	Port62_1GBaseSX	
128		39/46	Port63_1GBaseSX	Pair
129		40/45	Port64_1GBaseSX	
130	J4A	27/34	Port75_1GBaseSX	Pair
131		28/33	Port76_1GBaseSX	
132	J4A	37/48	Port77_1GBaseSX	Pair

133		38/47	Port78_1GBaseSX	
134		39/46	Port79_1GBaseSX	Pair
135		40/45	Port80_1GBaseSX	
136	J5	C	Port99_10GBaseT	Pair
137		D	Port100_10GBaseT	
138	J5	E	Port101_10GBaseT	Pair
139		F	Port102_10GBaseT	
140		G	Port103_10GBaseT	Pair
141		H	Port104_10GBaseT	
142	J6	A	Port105_1GBaseT	Pair
143		B	Port106_1GBaseT	
144		C	Port107_1GBaseT	Pair
145		D	Port108_1GBaseT	

REVISIONS M		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	12/18/19

DOCUMENT NO. CF-020011-433 | SHEET 1 OF 8 | REV. A



SEE SHEET 8

NOTES:

RELEASED / Dec. 19 2019, 2:06:09 PM

UNLESS OTHERWISE SPECIFIED	SPECIFICATIONS
LINEAR DIMENSIONS ARE IN INCHES TOLERANCES: .XXXX = ±.0005 ANGLES= ±2° .XXX = ±.010 .XX = ±.03 .X = ±.1 --- DIM.& TOL. PER ASME Y14.5M; DRM PER MIL-STD-31000; OTHER Amphenol Stds. PER 9-3800 LEGENDS: =FLAG NOTE CALL OUT REFERENCE ONLY	MATERIAL SPEC. NONE PROCESS SPEC. SEE NOTE 6

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS	DATE
PREPARED BY W. LEE	12 Feb 2019
ENGINEER IN CHARGE W. LEE	
DESIGN MANAGER J. ROTHROCK	
DESIGN ACTIVITY GROUP C1	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

POD BASED SWITCH BOX

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CF-020011-433	A

SCALE: 0.5 | REF. CF-020011-000 | SHEET 1 OF 8

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CF-020011-433.ASSEM
Drawing Name:
CF-020011-433

NONE
NEXT ASSEMBLY

DOCUMENT NO. CF-020011-433 | SHEET 1 OF 8 | REV. A

FORMAT: C-U.E-1

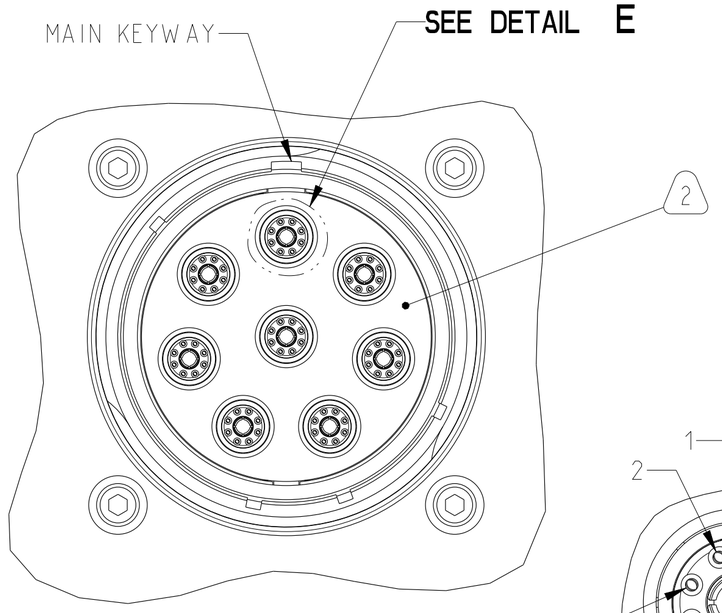
Eng PDM Information
For Reference Only
VERSION 2
REVISION A
REV. A
SHEET 1 OF 8
DOCUMENT NO. CF-020011-433

I/O CHART

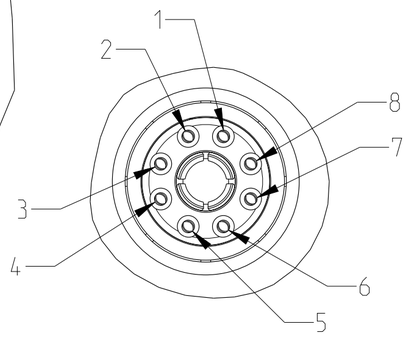
CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J1 (POWER) 15-4P KEYING "N"	A	IN	28VDC_IN
	B	OUT	28VDC_RTN
	C	--	SAFETY GROUND / CHASSIS
	D	--	NOT CONNECTED
	SHELL	--	CHASSIS
J8 (DEBUG) 13-35P KEYING "N" WITH METAL CAP	1	OUT	RS232_CONSOLE_TX
	2	IN	RS232_CONSOLE_RX
	3	--	RS232_CONSOLE_GND
	4	IN	DEBUG_JTAG_TCLK
	5	OUT	DEBUG_JTAG_TDO
	6	IN	DEBUG_JTAG_TDI
	7	IN	DEBUG_JTAG_TTMS
	8	IN	DEBUG_I2C_SCL
	9	BI	DEBUG_I2C_SDA
	10	--	NOT CONNECTED
	11	--	NOT CONNECTED
	12	BI	DEBUG_CPU_USB_D+
	13	BI	DEBUG_CPU_USB_D-
	14	BI	DEBUG_CPU_1GBASET_DA+
	15		DEBUG_CPU_1GBASET_DA-
	16		DEBUG_CPU_1GBASET_DB+
	17		DEBUG_CPU_1GBASET_DB-
	18		DEBUG_CPU_1GBASET_DC+
	19		DEBUG_CPU_1GBASET_DC-
	20		DEBUG_CPU_1GBASET_DD+
	21		DEBUG_CPU_1GBASET_DD-
	22	--	NOT CONNECTED
	SHELL	--	CHASSIS
J9 (STATUS/RESET) 9-35P KEYING "N"	1	IN	SWITCHBOX_RESET
	2	OUT	POWERSUPPLY_STATUS
	3	OUT	CHASSIS_STATUS
	4	OUT	TEMPERATURE_WARNING_STATUS
	5	--	RESET_RTN
	6	--	NOT CONNECTED
	SHELL	--	CHASSIS

SEE SHEET 8

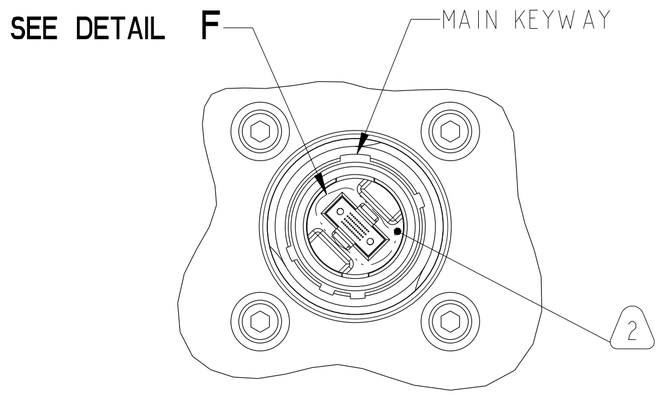
NOTES:



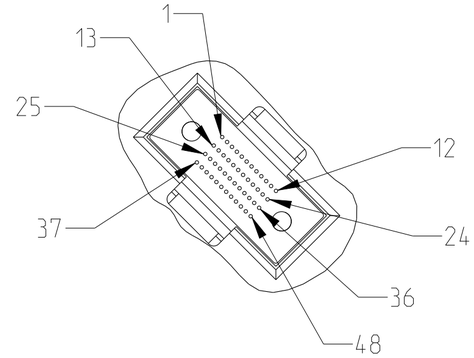
DETAIL D
J5, J6 AND J7
SCALE 2.000



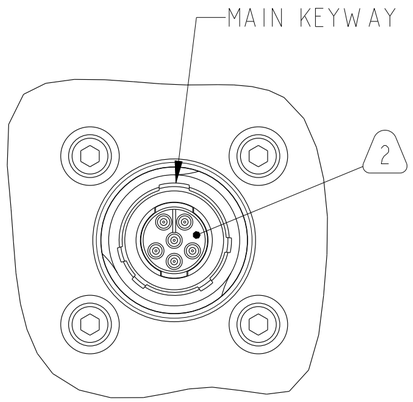
DETAIL E
OCTONET
SCALE 6.000



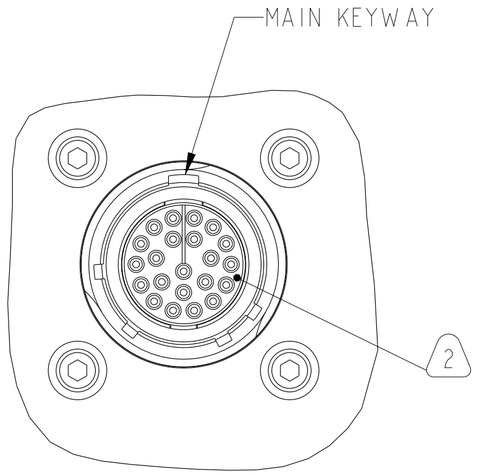
DETAIL B
J2A, J2B, J3A, J3B, J4A AND J4B
SCALE 2.000



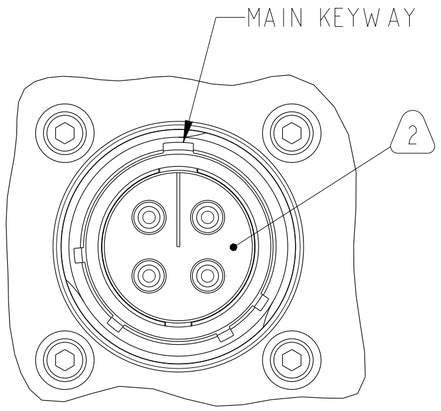
DETAIL F
48F MT
SCALE 6.000



DETAIL G
J9
SCALE 2.000



DETAIL C
J8
PROTECTION CAP NOT SHOWN FOR CLARITY
SCALE 2.000



DETAIL A
J1
SCALE 2.000

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CF-020011-433	A
SCALE: 0.5	REF: CF-020011-000	SHEET 2 OF 8	

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J2A (CPU1) 11-1S 48F MT KEYING "N"	1	OUT	PORT1_10GBASESR_TX
	2		PORT2_10GBASESR_TX
	3		PORT3_10GBASESR_TX
	4		PORT4_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT4_10GBASESR_RX
	10		PORT3_10GBASESR_RX
	11		PORT2_10GBASESR_RX
	12		PORT1_10GBASESR_RX
	13	OUT	PORT5_10GBASESR_TX
	14		PORT6_10GBASESR_TX
	15		PORT7_10GBASESR_TX
	16		PORT8_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT8_10GBASESR_RX
	22		PORT7_10GBASESR_RX
	23		PORT6_10GBASESR_RX
	24		PORT5_10GBASESR_RX
	25	OUT	PORT9_1GBASESX_TX
	26		PORT10_1GBASESX_TX
	27		PORT11_1GBASESX_TX
	28		PORT12_1GBASESX_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT12_1GBASESX_RX
	34		PORT11_1GBASESX_RX
	35		PORT10_1GBASESX_RX
	36		PORT9_1GBASESX_RX
	37	OUT	PORT13_1GBASESX_TX
	38		PORT14_1GBASESX_TX
	39		PORT15_1GBASESX_TX
	40		PORT16_1GBASESX_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT16_1GBASESX_RX
	46		PORT15_1GBASESX_RX
	47		PORT14_1GBASESX_RX
	48		PORT13_1GBASESX_RX
	SHELL	--	CHASSIS

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J2B (CPU1) 11-1S 48F MT KEYING "A"	1	OUT	PORT17_10GBASESR_TX
	2		PORT18_10GBASESR_TX
	3		PORT19_10GBASESR_TX
	4		PORT20_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT20_10GBASESR_RX
	10		PORT19_10GBASESR_RX
	11		PORT18_10GBASESR_RX
	12		PORT17_10GBASESR_RX
	13	OUT	PORT21_10GBASESR_TX
	14		PORT22_10GBASESR_TX
	15		PORT23_10GBASESR_TX
	16		PORT24_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT24_10GBASESR_RX
	22		PORT23_10GBASESR_RX
	23		PORT22_10GBASESR_RX
	24		PORT21_10GBASESR_RX
	25	OUT	PORT25_1GBASESX_TX
	26		PORT26_1GBASESX_TX
	27		PORT27_1GBASESX_TX
	28		PORT28_1GBASESX_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT28_1GBASESX_RX
	34		PORT27_1GBASESX_RX
	35		PORT26_1GBASESX_RX
	36		PORT25_1GBASESX_RX
	37	OUT	PORT29_1GBASESX_TX
	38		PORT30_1GBASESX_TX
	39		PORT31_1GBASESX_TX
	40		PORT32_1GBASESX_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT32_1GBASESX_RX
	46		PORT31_1GBASESX_RX
	47		PORT30_1GBASESX_RX
	48		PORT29_1GBASESX_RX
	SHELL	--	CHASSIS

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J3A (CPU2) 11-1S 48F MT KEYING "B"	1	OUT	PORT33_10GBASESR_TX
	2		PORT34_10GBASESR_TX
	3		PORT35_10GBASESR_TX
	4		PORT36_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT36_10GBASESR_RX
	10		PORT35_10GBASESR_RX
	11		PORT34_10GBASESR_RX
	12		PORT33_10GBASESR_RX
	13	OUT	PORT37_10GBASESR_TX
	14		PORT38_10GBASESR_TX
	15		PORT39_10GBASESR_TX
	16		PORT40_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT40_10GBASESR_RX
	22		PORT39_10GBASESR_RX
	23		PORT38_10GBASESR_RX
	24		PORT37_10GBASESR_RX
	25	OUT	PORT41_1GBASESX_TX
	26		PORT42_1GBASESX_TX
	27		PORT43_1GBASESX_TX
	28		PORT44_1GBASESX_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT44_1GBASESX_RX
	34		PORT43_1GBASESX_RX
	35		PORT42_1GBASESX_RX
	36		PORT41_1GBASESX_RX
	37	OUT	PORT45_1GBASESX_TX
	38		PORT46_1GBASESX_TX
	39		PORT47_1GBASESX_TX
	40		PORT48_1GBASESX_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT48_1GBASESX_RX
	46		PORT47_1GBASESX_RX
	47		PORT46_1GBASESX_RX
	48		PORT45_1GBASESX_RX
	SHELL	--	CHASSIS

SEE SHEET 8

NOTES:

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J3B (CPU2) 11-1S 48F MT KEYING "C"	1	OUT	PORT49_10GBASESR_TX
	2		PORT50_10GBASESR_TX
	3		PORT51_10GBASESR_TX
	4		PORT52_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT52_10GBASESR_RX
	10		PORT51_10GBASESR_RX
	11		PORT50_10GBASESR_RX
	12		PORT49_10GBASESR_RX
	13	OUT	PORT53_10GBASESR_TX
	14		PORT54_10GBASESR_TX
	15		PORT55_10GBASESR_TX
	16		PORT56_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT56_10GBASESR_RX
	22		PORT55_10GBASESR_RX
	23		PORT54_10GBASESR_RX
	24		PORT53_10GBASESR_RX
	25	OUT	PORT57_1GBASESX_TX
	26		PORT58_1GBASESX_TX
	27		PORT59_1GBASESX_TX
	28		PORT60_1GBASESX_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT60_1GBASESX_RX
	34		PORT59_1GBASESX_RX
	35		PORT58_1GBASESX_RX
	36		PORT57_1GBASESX_RX
	37	OUT	PORT61_1GBASESX_TX
	38		PORT62_1GBASESX_TX
	39		PORT63_1GBASESX_TX
	40		PORT64_1GBASESX_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT64_1GBASESX_RX
	46		PORT63_1GBASESX_RX
	47		PORT62_1GBASESX_RX
	48		PORT61_1GBASESX_RX
	SHELL	--	CHASSIS

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J4A (TUNER) 11-1S 48F MT KEYING "D"	1	OUT	PORT65_10GBASESR_TX
	2		PORT66_10GBASESR_TX
	3		PORT67_10GBASESR_TX
	4		PORT68_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT68_10GBASESR_RX
	10		PORT67_10GBASESR_RX
	11		PORT66_10GBASESR_RX
	12		PORT65_10GBASESR_RX
	13	OUT	PORT69_10GBASESR_TX
	14		PORT70_10GBASESR_TX
	15		PORT71_10GBASESR_TX
	16		PORT72_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT72_10GBASESR_RX
	22		PORT71_10GBASESR_RX
	23		PORT70_10GBASESR_RX
	24		PORT69_10GBASESR_RX
	25	OUT	PORT73_10GBASESR_TX
	26		PORT74_10GBASESR_TX
	27		PORT75_1GBASESX_TX
	28		PORT76_1GBASESX_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT76_1GBASESX_RX
	34		PORT75_1GBASESX_RX
	35		PORT74_10GBASESR_RX
	36		PORT73_10GBASESR_RX
	37	OUT	PORT77_1GBASESX_TX
	38		PORT78_1GBASESX_TX
	39		PORT79_1GBASESX_TX
	40		PORT80_1GBASESX_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT80_1GBASESX_RX
	46		PORT79_1GBASESX_RX
	47		PORT78_1GBASESX_RX
	48		PORT77_1GBASESX_RX
	SHELL	--	CHASSIS

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J4B (TUNER) 11-1S 48F MT KEYING "E"	1	OUT	PORT81_10GBASESR_TX
	2		PORT82_10GBASESR_TX
	3		PORT83_10GBASESR_TX
	4		PORT84_10GBASESR_TX
	5-8	--	NOT CONNECTED
	9	IN	PORT84_10GBASESR_RX
	10		PORT83_10GBASESR_RX
	11		PORT82_10GBASESR_RX
	12		PORT81_10GBASESR_RX
	13	OUT	PORT85_10GBASESR_TX
	14		PORT86_10GBASESR_TX
	15		PORT87_10GBASESR_TX
	16		PORT88_10GBASESR_TX
	17-20	--	NOT CONNECTED
	21	IN	PORT88_10GBASESR_RX
	22		PORT87_10GBASESR_RX
	23		PORT86_10GBASESR_RX
	24		PORT85_10GBASESR_RX
	25	OUT	PORT89_10GBASESR_TX
	26		PORT90_10GBASESR_TX
	27		PORT91_10GBASESR_TX
	28		PORT92_10GBASESR_TX
	29-32	--	NOT CONNECTED
	33	IN	PORT92_10GBASESR_RX
	34		PORT91_10GBASESR_RX
	35		PORT90_10GBASESR_RX
	36		PORT89_10GBASESR_RX
	37	OUT	PORT93_10GBASESR_TX
	38		PORT94_10GBASESR_TX
	39		PORT95_10GBASESR_TX
	40		PORT96_10GBASESR_TX
	41-44	--	NOT CONNECTED
	45	IN	PORT96_10GBASESR_RX
	46		PORT95_10GBASESR_RX
	47		PORT94_10GBASESR_RX
	48		PORT93_10GBASESR_RX
	SHELL	--	CHASSIS

SEE SHEET 8

NOTES:

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J5 (10GBASE-T) 25-8S KEYING "N"	A-1	BI	PORT97_10GBASET_DA+
	A-2		PORT97_10GBASET_DA-
	A-3		PORT97_10GBASET_DB+
	A-4		PORT97_10GBASET_DB-
	A-5		PORT97_10GBASET_DC+
	A-6		PORT97_10GBASET_DC-
	A-7		PORT97_10GBASET_DD+
	A-8		PORT97_10GBASET_DD-
	B-1		PORT98_10GBASET_DA+
	B-2		PORT98_10GBASET_DA-
	B-3		PORT98_10GBASET_DB+
	B-4		PORT98_10GBASET_DB-
	B-5		PORT98_10GBASET_DC+
	B-6		PORT98_10GBASET_DC-
	B-7		PORT98_10GBASET_DD+
	B-8		PORT98_10GBASET_DD-
	C-1		PORT99_10GBASET_DA+
	C-2		PORT99_10GBASET_DA-
	C-3		PORT99_10GBASET_DB+
	C-4		PORT99_10GBASET_DB-
	C-5		PORT99_10GBASET_DC+
	C-6		PORT99_10GBASET_DC-
	C-7		PORT99_10GBASET_DD+
	C-8		PORT99_10GBASET_DD-
	D-1		PORT100_10GBASET_DA+
	D-2		PORT100_10GBASET_DA-
	D-3		PORT100_10GBASET_DB+
	D-4		PORT100_10GBASET_DB-
	D-5		PORT100_10GBASET_DC+
	D-6		PORT100_10GBASET_DC-
	D-7		PORT100_10GBASET_DD+
	D-8		PORT100_10GBASET_DD-

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J5 (10GBASE-T) 25-8S KEYING "N"	E-1	BI	PORT101_10GBASET_DA+
	E-2		PORT101_10GBASET_DA-
	E-3		PORT101_10GBASET_DB+
	E-4		PORT101_10GBASET_DB-
	E-5		PORT101_10GBASET_DC+
	E-6		PORT101_10GBASET_DC-
	E-7		PORT101_10GBASET_DD+
	E-8		PORT101_10GBASET_DD-
	F-1		PORT102_10GBASET_DA+
	F-2		PORT102_10GBASET_DA-
	F-3		PORT102_10GBASET_DB+
	F-4		PORT102_10GBASET_DB-
	F-5		PORT102_10GBASET_DC+
	F-6		PORT102_10GBASET_DC-
	F-7		PORT102_10GBASET_DD+
	F-8		PORT102_10GBASET_DD-
	G-1		PORT103_10GBASET_DA+
	G-2		PORT103_10GBASET_DA-
	G-3		PORT103_10GBASET_DB+
	G-4		PORT103_10GBASET_DB-
	G-5		PORT103_10GBASET_DC+
	G-6		PORT103_10GBASET_DC-
	G-7		PORT103_10GBASET_DD+
	G-8		PORT103_10GBASET_DD-
	H-1		PORT104_10GBASET_DA+
	H-2		PORT104_10GBASET_DA-
	H-3		PORT104_10GBASET_DB+
	H-4		PORT104_10GBASET_DB-
	H-5		PORT104_10GBASET_DC+
	H-6		PORT104_10GBASET_DC-
	H-7		PORT104_10GBASET_DD+
	H-8		PORT104_10GBASET_DD-
	A OUTER	--	CHASSIS
	B OUTER		
	C OUTER		
	D OUTER		
	E OUTER		
	F OUTER		
	G OUTER		
	H OUTER		
	SHELL		

SEE SHEET 8

NOTES:

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J6 (1GBASE-T) 25-8S KEYING "A"	A-1	BI	PORT105_1GBASET_DA+
	A-2		PORT105_1GBASET_DA-
	A-3		PORT105_1GBASET_DB+
	A-4		PORT105_1GBASET_DB-
	A-5		PORT105_1GBASET_DC+
	A-6		PORT105_1GBASET_DC-
	A-7		PORT105_1GBASET_DD+
	A-8		PORT105_1GBASET_DD-
	B-1		PORT106_1GBASET_DA+
	B-2		PORT106_1GBASET_DA-
	B-3		PORT106_1GBASET_DB+
	B-4		PORT106_1GBASET_DB-
	B-5		PORT106_1GBASET_DC+
	B-6		PORT106_1GBASET_DC-
	B-7		PORT106_1GBASET_DD+
	B-8		PORT106_1GBASET_DD-
	C-1		PORT107_1GBASET_DA+
	C-2		PORT107_1GBASET_DA-
	C-3		PORT107_1GBASET_DB+
	C-4		PORT107_1GBASET_DB-
	C-5		PORT107_1GBASET_DC+
	C-6		PORT107_1GBASET_DC-
	C-7		PORT107_1GBASET_DD+
	C-8		PORT107_1GBASET_DD-
	D-1		PORT108_1GBASET_DA+
	D-2		PORT108_1GBASET_DA-
	D-3		PORT108_1GBASET_DB+
	D-4		PORT108_1GBASET_DB-
	D-5		PORT108_1GBASET_DC+
	D-6		PORT108_1GBASET_DC-
	D-7		PORT108_1GBASET_DD+
	D-8		PORT108_1GBASET_DD-

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J6 (1GBASE-T) 25-8S KEYING "A"	E-1	BI	PORT109_1GBASET_DA+
	E-2		PORT109_1GBASET_DA-
	E-3		PORT109_1GBASET_DB+
	E-4		PORT109_1GBASET_DB-
	E-5		PORT109_1GBASET_DC+
	E-6		PORT109_1GBASET_DC-
	E-7		PORT109_1GBASET_DD+
	E-8		PORT109_1GBASET_DD-
	F-1		PORT110_1GBASET_DA+
	F-2		PORT110_1GBASET_DA-
	F-3		PORT110_1GBASET_DB+
	F-4		PORT110_1GBASET_DB-
	F-5		PORT110_1GBASET_DC+
	F-6		PORT110_1GBASET_DC-
	F-7		PORT110_1GBASET_DD+
	F-8		PORT110_1GBASET_DD-
	G-1		PORT111_1GBASET_DA+
	G-2		PORT111_1GBASET_DA-
	G-3		PORT111_1GBASET_DB+
	G-4		PORT111_1GBASET_DB-
	G-5		PORT111_1GBASET_DC+
	G-6		PORT111_1GBASET_DC-
	G-7		PORT111_1GBASET_DD+
	G-8		PORT111_1GBASET_DD-
	H-1		PORT112_1GBASET_DA+
	H-2		PORT112_1GBASET_DA-
	H-3		PORT112_1GBASET_DB+
	H-4		PORT112_1GBASET_DB-
	H-5		PORT112_1GBASET_DC+
	H-6		PORT112_1GBASET_DC-
	H-7		PORT112_1GBASET_DD+
	H-8		PORT112_1GBASET_DD-
	A OUTER	--	CHASSIS
	B OUTER		
	C OUTER		
	D OUTER		
	E OUTER		
	F OUTER		
	G OUTER		
	H OUTER		
	SHELL		

SEE SHEET 8

NOTES:

I/O CHART (CONTINUED)

CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J7 (1GBASE-T) 25-8S KEYING "B"	A-1	BI	PORT113_1GBASET_DA+
	A-2		PORT113_1GBASET_DA-
	A-3		PORT113_1GBASET_DB+
	A-4		PORT113_1GBASET_DB-
	A-5		PORT113_1GBASET_DC+
	A-6		PORT113_1GBASET_DC-
	A-7		PORT113_1GBASET_DD+
	A-8		PORT113_1GBASET_DD-
	B-1		PORT114_1GBASET_DA+
	B-2		PORT114_1GBASET_DA-
	B-3		PORT114_1GBASET_DB+
	B-4		PORT114_1GBASET_DB-
	B-5		PORT114_1GBASET_DC+
	B-6		PORT114_1GBASET_DC-
	B-7		PORT114_1GBASET_DD+
	B-8		PORT114_1GBASET_DD-
	C-1		PORT115_1GBASET_DA+
	C-2		PORT115_1GBASET_DA-
	C-3		PORT115_1GBASET_DB+
	C-4		PORT115_1GBASET_DB-
	C-5		PORT115_1GBASET_DC+
	C-6		PORT115_1GBASET_DC-
	C-7		PORT115_1GBASET_DD+
	C-8		PORT115_1GBASET_DD-
	D-1		PORT116_1GBASET_DA+
	D-2		PORT116_1GBASET_DA-
	D-3		PORT116_1GBASET_DB+
	D-4		PORT116_1GBASET_DB-
	D-5		PORT116_1GBASET_DC+
	D-6		PORT116_1GBASET_DC-
	D-7		PORT116_1GBASET_DD+
	D-8		PORT116_1GBASET_DD-

I/O CHART (CONTINUED)

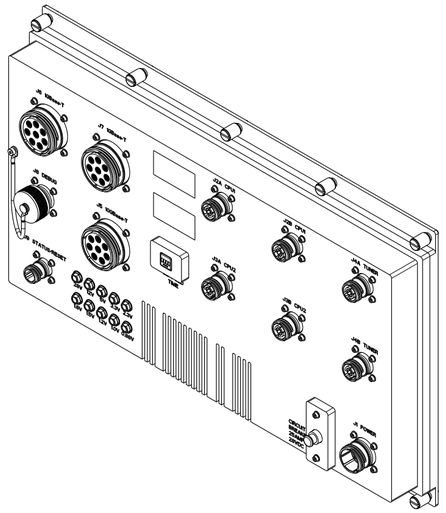
CONNECTOR DESCRIPTION	PIN NO.	DATA DIRECTION	SIGNAL NAME
J7 (1GBASE-T) 25-8S KEYING "B"	E-1	BI	PORT117_1GBASET_DA+
	E-2		PORT117_1GBASET_DA-
	E-3		PORT117_1GBASET_DB+
	E-4		PORT117_1GBASET_DB-
	E-5		PORT117_1GBASET_DC+
	E-6		PORT117_1GBASET_DC-
	E-7		PORT117_1GBASET_DD+
	E-8		PORT117_1GBASET_DD-
	F-1		PORT118_1GBASET_DA+
	F-2		PORT118_1GBASET_DA-
	F-3		PORT118_1GBASET_DB+
	F-4		PORT118_1GBASET_DB-
	F-5		PORT118_1GBASET_DC+
	F-6		PORT118_1GBASET_DC-
	F-7		PORT118_1GBASET_DD+
	F-8		PORT118_1GBASET_DD-
	G-1		PORT119_1GBASET_DA+
	G-2		PORT119_1GBASET_DA-
	G-3		PORT119_1GBASET_DB+
	G-4		PORT119_1GBASET_DB-
	G-5		PORT119_1GBASET_DC+
	G-6		PORT119_1GBASET_DC-
	G-7		PORT119_1GBASET_DD+
	G-8		PORT119_1GBASET_DD-
	H-1		PORT120_1GBASET_DA+
	H-2		PORT120_1GBASET_DA-
	H-3		PORT120_1GBASET_DB+
	H-4		PORT120_1GBASET_DB-
	H-5		PORT120_1GBASET_DC+
	H-6		PORT120_1GBASET_DC-
	H-7		PORT120_1GBASET_DD+
	H-8		PORT120_1GBASET_DD-
	A OUTER	--	CHASSIS
	B OUTER		
	C OUTER		
	D OUTER		
	E OUTER		
	F OUTER		
	G OUTER		
	H OUTER		
	SHELL		

SEE SHEET 8

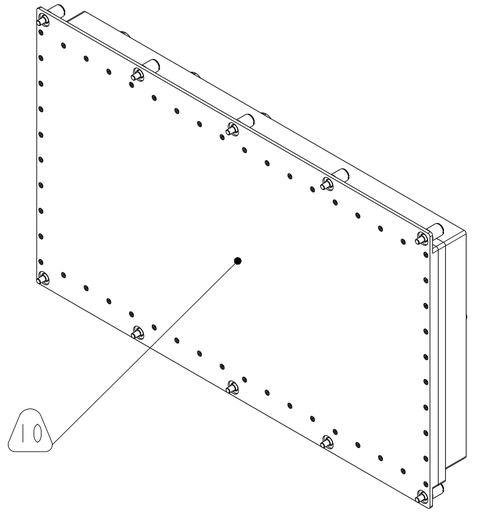
NOTES:

CONNECTOR LIST

CONNECTOR DESIGNATOR	CONNECTOR PART NUMBER	CONTACT(S) USED	MATING CONNECTOR (OR EQUIVALENT)	MATING CONTACT (OR EQUIVALENT)
J1 POWER	CF-971354-04P	(4X) SIZE 12 PIN M39029/107-623	TV06RF-15-4S(LC)	SIZE 12 SOCKET M39029/106-617
J2A CPU1	CF-971322-01S	(1X) 48F MT FERRULE 12599 (1X) MT MALE KIT CF-198233-001	CF-594611-01P	48F MT FERRULE 12599 MT FEMALE KIT CF-198234-001
J2B CPU1	CF-971322-01H		CF-594611-01G	
J3A CPU2	CF-971322-01J		CF-594611-01I	
J3B CPU2	CF-971322-01L		CF-594611-01K	
J4A TUNER	CF-971322-01N		CF-594611-01M	
J4B TUNER	CF-971322-01T		CF-594611-01R	
J5 10GBASE-T	10-646402-612N	(8X) 21-032907-001 OCTONET, SOCKET	TV06RQF-25-8P(LC)	21-032904-021 OCTONET, PIN COMPATIBLE W/ PIC E6A3824 100OHM CABLE (OR EQUIVALENT)
J6 1GBASE-T	10-646402-612A		TV06RQF-25-8PA(LC)	
J7 1GBASE-T	10-646402-612B		TV06RQF-25-8PB(LC)	
J8 DEBUG	CF-971353-22P	(22X) SIZE 22D PIN M39029/107-620	TV06RF-13-35S(LC)	SIZE 22D SOCKET M39029/106-614
J9 STATUS/RESET	CF-971351-35P	(6X) SIZE 22D PIN M39029/107-620	TV06RF-9-35S(LC)	SIZE 22D SOCKET M39029/106-614



FRONT ISOMETRIC VIEW
SCALE 0.250



REAR ISOMETRIC VIEW
SCALE 0.250

14. MARK LABEL WITH UNIQUE IDENTIFICATION (UID) PER MIL-STD-130N, CONSTRUCT #1. UID SHALL CONSIST OF MFG'S CAGE CODE (77820), MFG'S UNIQUE SERIAL NUMBER (SERIAL NUMBER PER 9-9172-3) AND CUSTOMER P/N (19CD0002-1). ATTACH ON INDICATED LOCATION.

13. STAMP IDENTIFICATION DESIGNATORS ON FRONT HOUSING IN WHITE COLOR. LOCATE APPROXIMATELY AS SHOWN. LETTER HEIGHT .150" MIN. STAMPING PER 9-3856-5.

12. ALL TX AND RX SPECIFIED ON I/O CHART ARE FROM THE PERSPECTIVE OF CF-020011-433 ASSEMBLY.

11. WEIGHT: 15 LBS MAX.

10. INDICATED SURFACE SHALL BE PAINT FREE FOR ELECTRICAL BONDING. PAINT FREE SURFACE SHALL BE COATED WITH CONDUCTIVE FINISH SUCH AS ALODINE OR IRIDITE, COLOR YELLOW.

9. ASSEMBLY HOUSINGS ARE ALUMINUM ALLOY PAINTED BLACK PER FED-STD-595, COLOR# 37038.

8. CONNECTOR SHELLS ARE ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

7. FIBER LINES SHALL BE 850nm SIGNAL COMPATIBLE 50/125 GRADED INDEX MULTIMODE FIBER.

6. PROCESS SPECS: 9-9172-3, 9-3856-5

5. MARKING ON LABEL MAY DIFFER FROM DRAWING BASED ON CUSTOMER SPECIFIC ORDER REQUIREMENTS.

4. PACKAGE PER PRODUCTION PROCESS SHEET.

3. MARK LABEL WITH "AMPHENOL", PART NUMBER AND 7 DIGIT SERIAL NUMBER AND ATTACH ON INDICATED SURFACE. SERIAL NUMBER PER 9-9172-3.

EXAMPLE:
AMPHENOL
CF-020011-433
1950003

2. FOR INSERT ARRANGEMENT, SEE FOLLOWING DOCUMENTS.
- J1 CONNECTOR: L-21814-4
- J2A, J2B, J3A, J3B, J4A AND J4B CONNECTORS: L-38711-M1
- J5, J6 AND J7 CONNECTORS: LQ-21824-8
- J8 CONNECTOR: L-21812-35
- J9 CONNECTOR: L-21808-35

1. ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE (ESD) SENSITIVE COMPONENTS. ASSEMBLY SHALL BE HANDLED, PACKAGED, AND SHIPPED TO MEET REQUIREMENTS OF ANSI/ESD-S-20.20 AND IPC-610.

NOTES:

RELEASED / Dec. 19 2019, 2:06:10 PM

DOCUMENT NO.	SHEET	REV.
CF-020011-433	SHEET 8 OF 8	A

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CF-020011-433	A
SCALE: 0.5	REF: CF-020011-000	SHEET 8 OF 8	

CF-020011-433 DOCUMENT NO. | SHEET 8 OF 8 | A REV.

REVISION A | VERSION 2

DOCUMENT NO. CF-020011-433 | SHEET 8 OF 8 | REV. A

FORMAT: C-U.E-1

REVISIONS		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	3/4/20

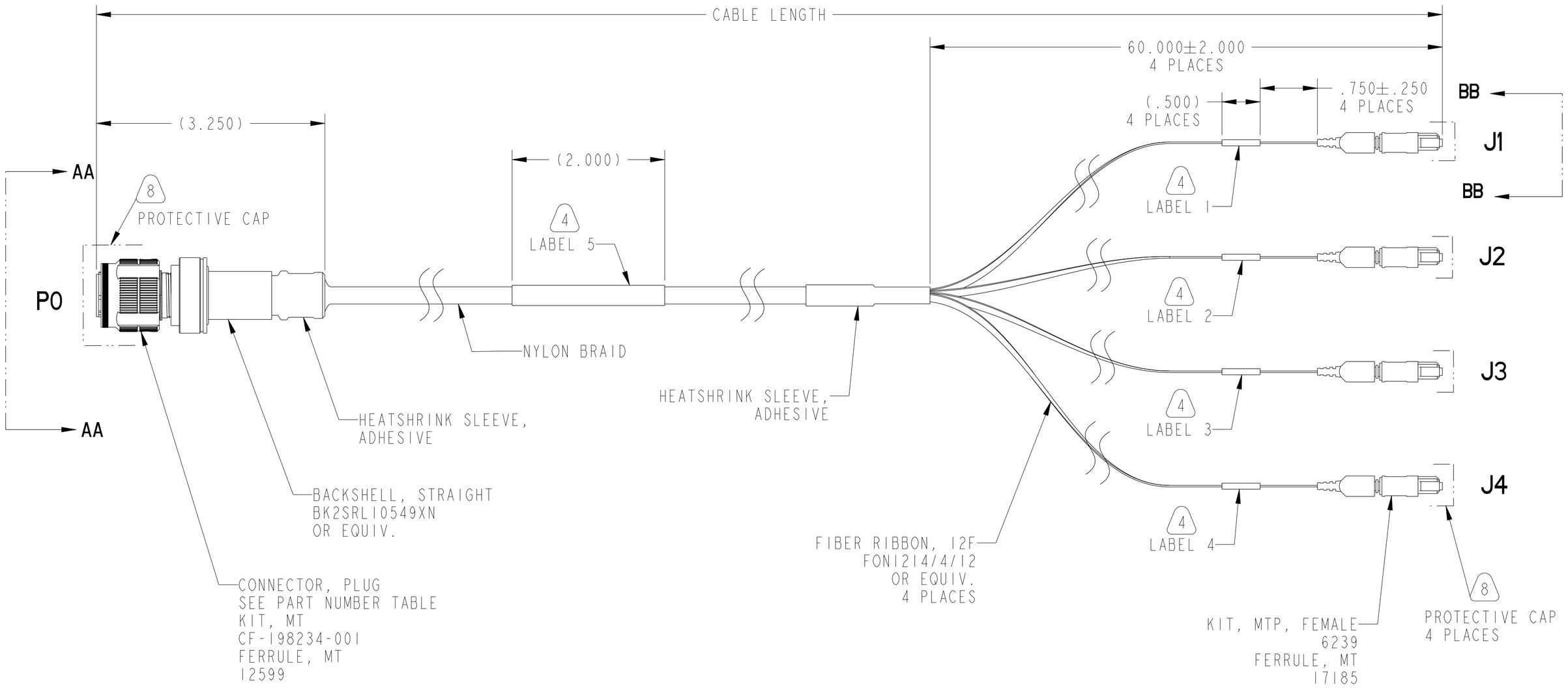
DOCUMENT NO. CF-980062-10X | SHEET 1 OF 2 | REV. A

MARKING TABLE (4)

LABEL ID	MARKING
LABEL 1	J1
LABEL 2	J2
LABEL 3	J3
LABEL 4	J4
LABEL 5	AMPHENOL CABLE ASSEMBLY NUMBER SERIALIZED DATE CODE (9-9172-3) LOT NUMBER

PART NUMBER TABLE

PART NUMBER	CABLE LENGTH (IN)	CONNECTOR P/N	CONNECTOR KEY ROTATION
CF-980062-101	120.0±4.0	CF-594611-01P	N
CF-980062-102	120.0±4.0	CF-594611-01G	A
CF-980062-103	120.0±4.0	CF-594611-01I	B
CF-980062-104	120.0±4.0	CF-594611-01K	C
CF-980062-105	168.0±6.0	CF-594611-01M	D
CF-980062-106	120.0±4.0	CF-594611-01R	E



SEE SHEET 2

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

RELEASED / Mar. 11 2020, 3:53:16 PM

NONE

NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CF-980062-10X.ASSEM
Drawing Name:
CF-980062-10X

UNLESS OTHERWISE SPECIFIED
LINEAR DIMENSIONS ARE IN INCHES
TOLERANCES:
.XXXX = ±.0005 ANGLES= ±2°
.XXX = ±.010
.XX = ±.03
.X = ±.1
DIM.& TOL. PER ASME Y14.5M;
DRM PER MIL-STD-31000;
OTHER Amphenol Stds. PER 9-3800
LEGENDS:
=FLAG NOTE CALL OUT
REFERENCE ONLY

SPECIFICATIONS
MATERIAL SPEC.
NONE
PROCESS SPEC.
SEE NOTE 3

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS		DATE
PREPARED BY	R.PATEL	3-Dec-19
ENGINEER IN CHARGE	W. LEE	
DESIGN MANAGER	J. ROTHROCK	
DESIGN ACTIVITY GROUP	CI	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

CABLE, FIBER OPTIC
CF-594611-01X TO 4x MTP FEMALE (6239)
50/125, ELECTROLESS NICKEL

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CF-980062-10X	A

SCALE: 1:1 | REF. CF-901201-145 | SHEET 1 OF 2

DOCUMENT NO. CF-980062-10X | SHEET 1 OF 2 | REV. A

FORMAT: C-U.E-1

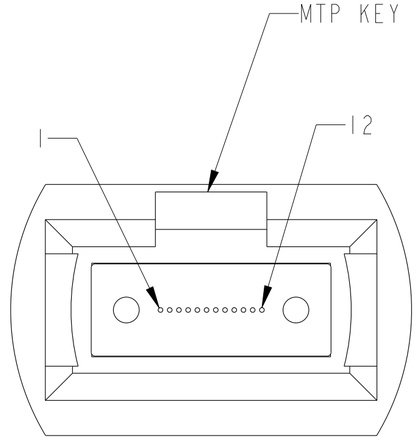
VERSION 0 | REVISION A | Eng PDM Information For Reference Only

WIRING TABLE (5)

P0 FIBER ID	J1 FIBER ID	P0 FIBER ID	J2 FIBER ID	P0 FIBER ID	J3 FIBER ID	P0 FIBER ID	J4 FIBER ID
1	1	13	1	25	1	37	1
2	2	14	2	26	2	38	2
3	3	15	3	27	3	39	3
4	4	16	4	28	4	40	4
5	5	17	5	29	5	41	5
6	6	18	6	30	6	42	6
7	7	19	7	31	7	43	7
8	8	20	8	32	8	44	8
9	9	21	9	33	9	45	9
10	10	22	10	34	10	46	10
11	11	23	11	35	11	47	11
12	12	24	12	36	12	48	12

PERFORMANCE TEST (1)

DESCRIPTION	REQUIREMENT
INSERTION LOSS	<1.5 dB AT 850 nm



VIEW AT **BB-BB**
J1 THRU J4 CONNECTORS
SCALE 8:1

10. FOR INSERT ARRANGEMENT, SEE L-38711-01 DOCUMENT.

9. PACKAGE PER PRODUCTION PROCESS SHEET.

(8.) PROTECTIVE CAP SHALL BE INSTALLED PRIOR TO SHIPPING.

7. P0 CONNECTOR SHELL IS ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

6. CABLE ASSEMBLY SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH IPC/WHMA-A-620, CLASS 3.

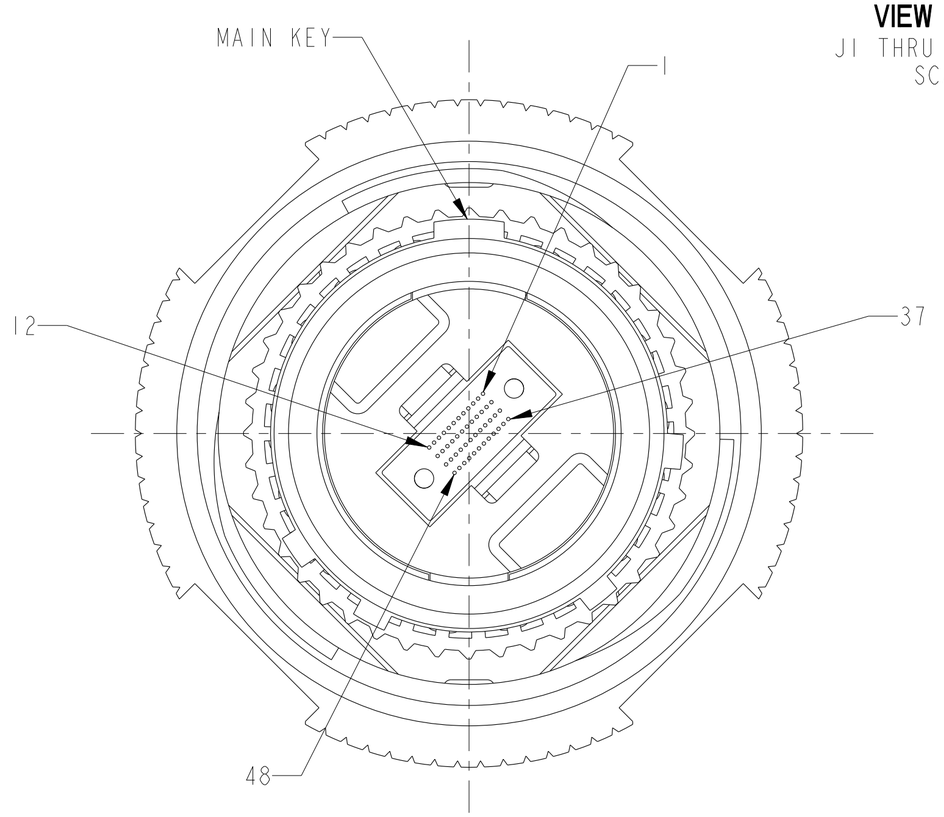
(5.) CABLE ASSEMBLIES SHALL BE INSTALLED IN CONNECTOR TO MEET THE REQUIREMENTS OF THE WIRING TABLE.

(4.) MARKING SHALL BE APPLIED WITH BLACK INK ON WHITE LABEL PER MARKING TABLE. LABEL 5 SHALL BE LOCATED APPROXIMATELY AT THE CENTER OF THE HARNESS.

3. PROCESS SPEC:
9-9172-3

2. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE MARKING.

(1.) TEST FIBER OPTIC LINES PER PERFORMANCE TEST TABLE. A TEST REPORT SHOWING THE RESULTS (ALONG WITH INSERT CAVITY ID) OF ALL TESTS PERFORMED SHALL ACCOMPANY EACH HARNESS. THE AAO PART NUMBER OF THE HARNESS SHALL BE INCLUDED ON THE TEST REPORT. SEE WIRING TABLE.



VIEW AT **AA-AA**
P0 CONNECTOR
SCALE 6:1

NOTES:

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CF-980062-10X	A
SCALE: 2:1	REF: CF-901201-145	SHEET 2 OF 2	

REVISIONS		
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	3/16/20

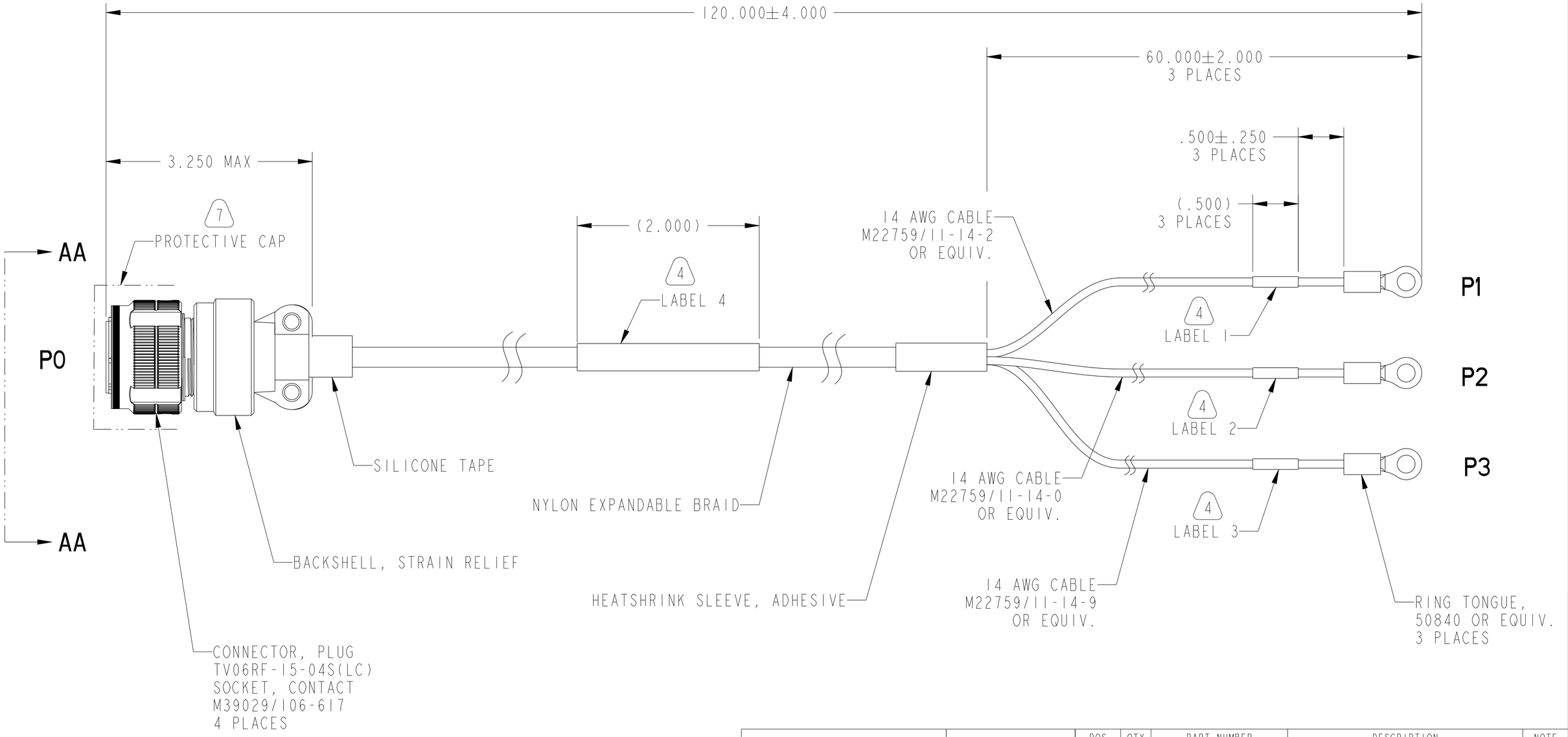
DOCUMENT NO. CA-628485-G08 | SHEET 1 OF 2 | REV. A

MARKING TABLE (4)

LABEL ID	MARKING
LABEL 1	P1
LABEL 2	P2
LABEL 3	P3
LABEL 4	AMPHENOL CA-628485-G08 SERIALIZED DATE CODE (9-9172-3) LOT NUMBER

ELECTRICAL TEST (1)

DESCRIPTION	REQUIREMENTS
PINOUT/ CONTINUITY	PER WIRING TABLE
INSULATION RESISTANCE	500VDC FOR 5 SEC 200 MEGOHM MIN.



SEE SHEET 2

NOTES:

RELEASED / Mar. 18 2020, 2:04:09 PM

NONE

NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CA-628485-G08.ASSEM
Drawing Name:
CA-628485-G08

UNLESS OTHERWISE SPECIFIED
LINEAR DIMENSIONS ARE IN INCHES
TOLERANCES:
.XXXX = ±.0005 ANGLES= ±2°
.XXX = ±.010
.XX = ±.03
.X = ±.1
DIM.& TOL. PER ASME Y14.5M;
DRM PER MIL-STD-31000;
OTHER Amphenol Stds. PER 9-3800
LEGENDS:
=FLAG NOTE CALL OUT
REFERENCE ONLY

SPECIFICATIONS
MATERIAL SPEC.
NONE
PROCESS SPEC.
SEE NOTE 3

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS		DATE
PREPARED BY	R.PATEL	9-Dec-19
ENGINEER IN CHARGE	W. LEE	
DESIGN MANAGER	J. ROTHROCK	
DESIGN ACTIVITY GROUP	C1	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

TEST CABLE
TV06RF-15-04S(LC) TO 3x RING TONGUE
ELECTROLESS NICKEL, ALUMINUM ALLOY

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G08	A

SCALE: 1.2 | REF. CA-628485-F8X | SHEET 1 OF 2

DOCUMENT NO. CA-628485-G08 | SHEET 1 OF 2 | REV. A

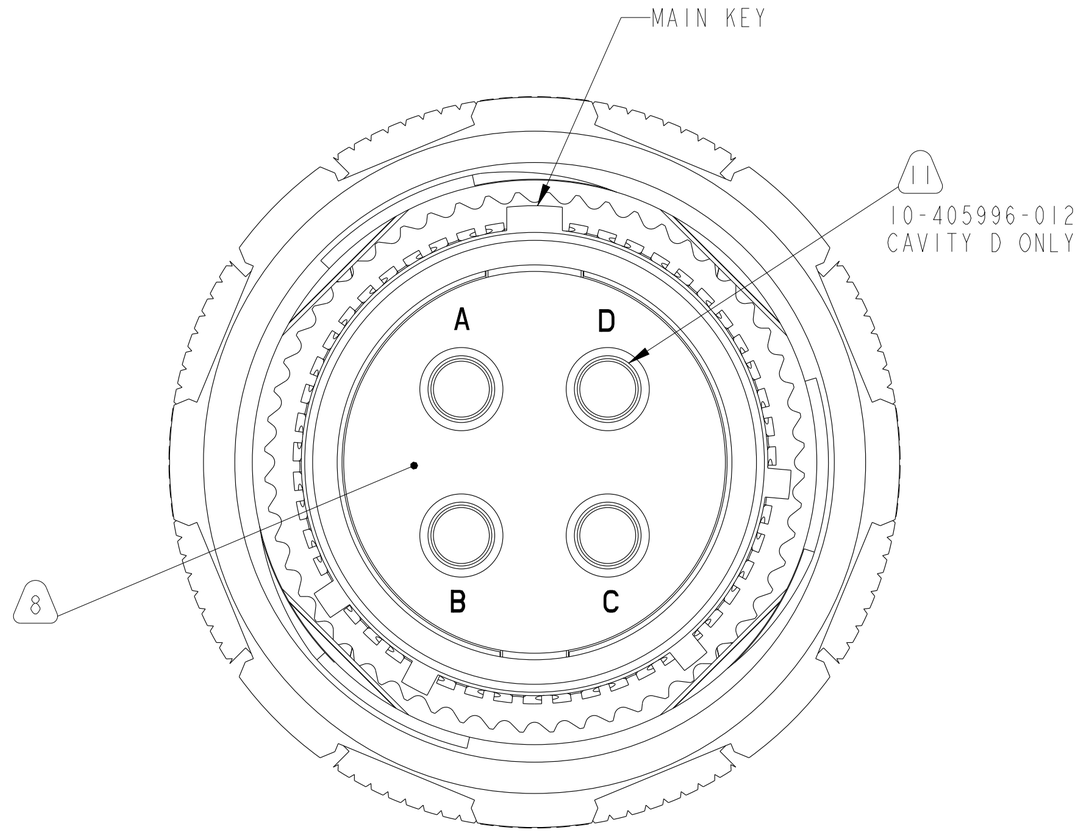
FORMAT: C-U.E-1

VERSION 1 | REVISION A | Eng PDM Information For Reference Only

REV. A | SHEET 1 OF 2 | DOCUMENT NO. CA-628485-G08

WIRING TABLE (5)

P0 CONNECTOR CAVITY ID	RING TONGUE CONNECTOR ID	14 AWG WIRE P/N	WIRE COLOR
A	P1	M22759/11-14-2	RED
B	P2	M22759/11-14-0	BLACK
C	P3	M22759/11-14-9	WHITE
D	NOT CONNECTED		



VIEW AT AA-AA
P0 CONNECTOR
SCALE 5.000

(11) P0 CONNECTOR CAVITY D CONTACT SHALL BE BACKED BY SIZE 12 SEALING PLUG.

10. CABLE ASSEMBLY SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH IPC/WHMA-A-620, CLASS 3.

9. P0 CONNECTOR SHELL IS ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

(8) SEE L-21815-4 FOR INSERT ARRANGEMENT.

(7) PROTECTIVE CAP SHALL BE INSTALLED PRIOR TO SHIPPING.

6. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE MARKING.

(5) CABLE ASSEMBLIES SHALL BE INSTALLED IN CONNECTOR TO MEET THE REQUIREMENTS OF THE WIRING TABLE.

(4) MARKING SHALL BE APPLIED WITH BLACK INK ON WHITE LABEL PER MARKING TABLE. LABEL 4 SHALL BE LOCATED APPROXIMATELY AT THE CENTER OF THE HARNESS.

3. PROCESS SPEC:
9-9172-3

2. PACKAGE PER PRODUCTION PROCESS SHEET.

(1) CABLE ASSEMBLY SHALL BE TESTED PER ELECTRICAL TEST TABLE.

NOTES:

RELEASED / Mar. 18 2020, 2:04:09 PM

DOCUMENT NO.	SHEET 2 OF 2	REV.
CA-628485-G08		A

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G08	A
SCALE: 1.0	REF: CA-628485-F8X	SHEET 2 OF 2	

DOCUMENT NO. CA-628485-G08
SHEET 2 OF 2
REV. A

REV. A
SHEET 2 OF 2
DOCUMENT NO. CA-628485-G08

DOCUMENT NO. CA-628485-G09X	SHEET 1 OF 3	REV. A

REVISIONS M

LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	3/23/2020

DOCUMENT NO. CA-628485-G09X

SHEET 1 OF 3 REV. A

MARKING TABLE (4)

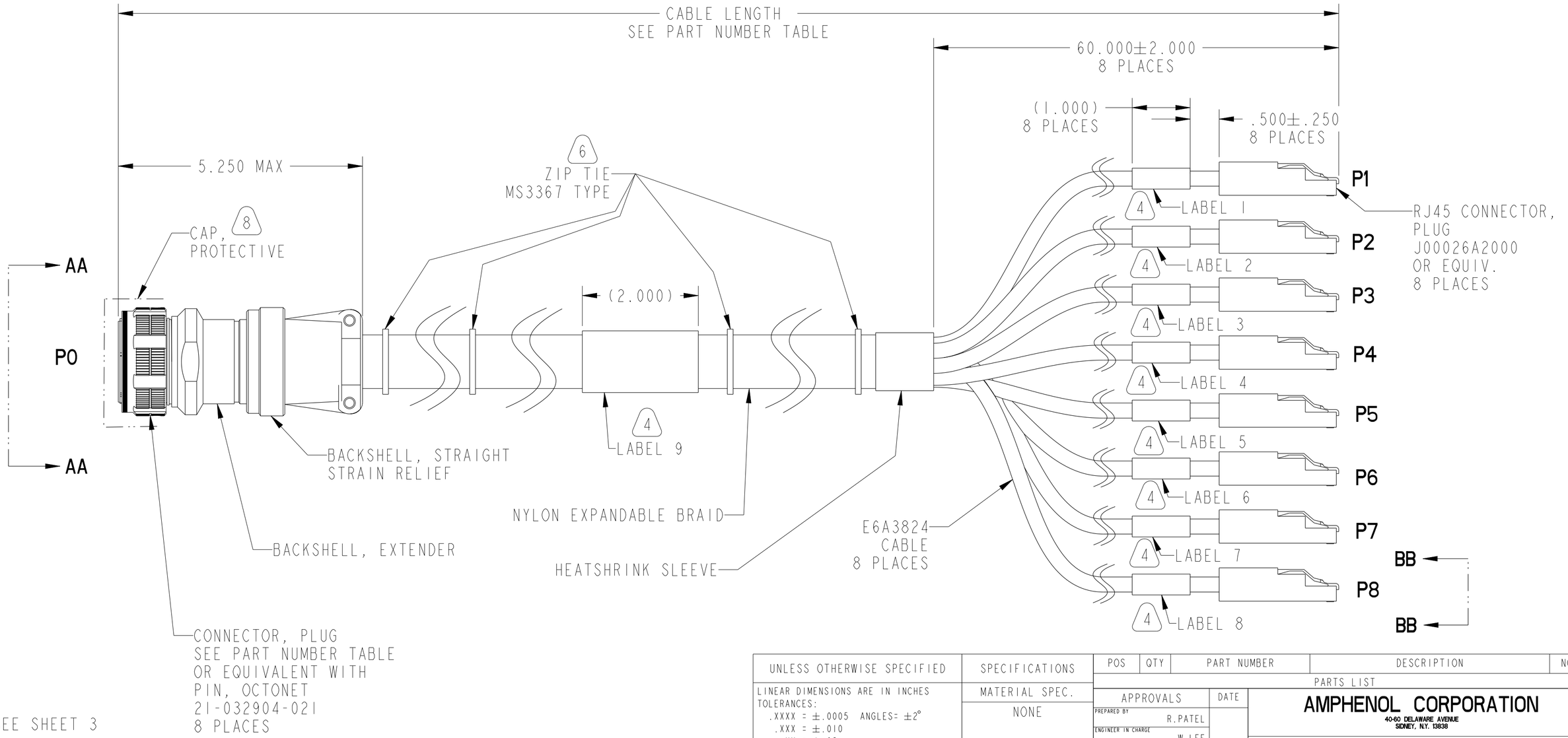
LABEL ID	DESCRIPTION
LABEL 1	P1
LABEL 2	P2
LABEL 3	P3
LABEL 4	P4
LABEL 5	P5
LABEL 6	P6
LABEL 7	P7
LABEL 8	P8
LABEL 9	AMPHENOL CABLE ASSEMBLY NUMBER SERIALIZED DATE CODE (9-9172-3) LOT NUMBER

PART NUMBER TABLE

PART NUMBER	CABLE LENGTH (in)	CONNECTOR P/N	CONNECTOR KEY ROTATION
CA-628485-G09	120.0±4.0	TV06RQF-25-8P(LC)	N
CA-628485-G09A	120.0±4.0	TV06RQF-25-8PA(LC)	A
CA-628485-G09B	168.0±6.0	TV06RQF-25-8PB(LC)	B

ELECTRICAL TEST TABLE (1)

DESCRIPTION	REQUIREMENT
PINOUT/CONTINUITY	PER WIRING TABLE
INSULATION RESISTANCE	500 VDC FOR 5 SEC. 200 MEGOHM MIN.



SEE SHEET 3

NOTES:

NONE
NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CA-628485-G09X.ASSEM
Drawing Name:
CA-628485-G09X

UNLESS OTHERWISE SPECIFIED

LINEAR DIMENSIONS ARE IN INCHES
TOLERANCES:
.XXXX = ±.0005 ANGLES= ±2°
.XXX = ±.010
.XX = ±.03
.X = ±.1

DIM.& TOL. PER ASME Y14.5M;
DRM PER MIL-STD-31000;
OTHER Amphenol Stds. PER 9-3800

LEGENDS:
=FLAG NOTE CALL OUT
REFERENCE ONLY

SPECIFICATIONS

MATERIAL SPEC.
NONE

PROCESS SPEC.
SEE NOTE 3

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS		DATE
PREPARED BY	R.PATEL	4-Dec-19
ENGINEER IN CHARGE	W.LEE	
DESIGN MANAGER	J.ROTHROCK	
DESIGN ACTIVITY GROUP	CI	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

ETHERNET CABLE
TV06RQF-25-8P( )(LC) TO 8x RJ45
ELECROLESS NICKEL, ALUMINUM ALLOY

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G09X	A

SCALE: 0.8 | REF. CA-628485-F8X | SHEET 1 OF 3

DOCUMENT NO. CA-628485-G09X

VERSION 0
REVISION A
Eng PDM Information For Reference Only
REV. A
SHEET 1 OF 3
DOCUMENT NO. CA-628485-G09X

FORMAT: C-U.E-1

WIRING TABLE (5)

P0 CONNECTOR CAVITY ID	P1 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P2 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P3 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P4 CONNECTOR PIN ID
A:1	1	B:1	1	C:1	1	D:1	1
A:2	2	B:2	2	C:2	2	D:2	2
A:3	3	B:3	3	C:3	3	D:3	3
A:4	6	B:4	6	C:4	6	D:4	6
A:5	4	B:5	4	C:5	4	D:5	4
A:6	5	B:6	5	C:6	5	D:6	5
A:7	7	B:7	7	C:7	7	D:7	7
A:8	8	B:8	8	C:8	8	D:8	8
A: CENTER A: OUTER	SHIELD	B: CENTER B: OUTER	SHIELD	C: CENTER C: OUTER	SHIELD	D: CENTER D: OUTER	SHIELD

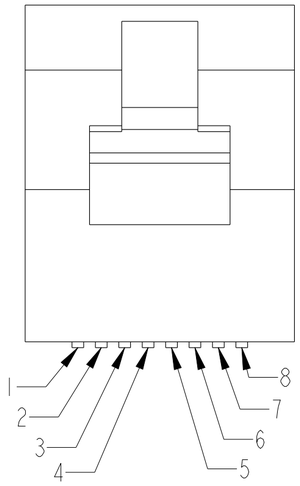
WIRING TABLE (5)

P0 CONNECTOR CAVITY ID	P5 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P6 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P7 CONNECTOR PIN ID	P0 CONNECTOR CAVITY ID	P8 CONNECTOR PIN ID
E:1	1	F:1	1	G:1	1	H:1	1
E:2	2	F:2	2	G:2	2	H:2	2
E:3	3	F:3	3	G:3	3	H:3	3
E:4	6	F:4	6	G:4	6	H:4	6
E:5	4	F:5	4	G:5	4	H:5	4
E:6	5	F:6	5	G:6	5	H:6	5
E:7	7	F:7	7	G:7	7	H:7	7
E:8	8	F:8	8	G:8	8	H:8	8
E: CENTER E: OUTER	SHIELD	F: CENTER F: OUTER	SHIELD	G: CENTER G: OUTER	SHIELD	H: CENTER H: OUTER	SHIELD

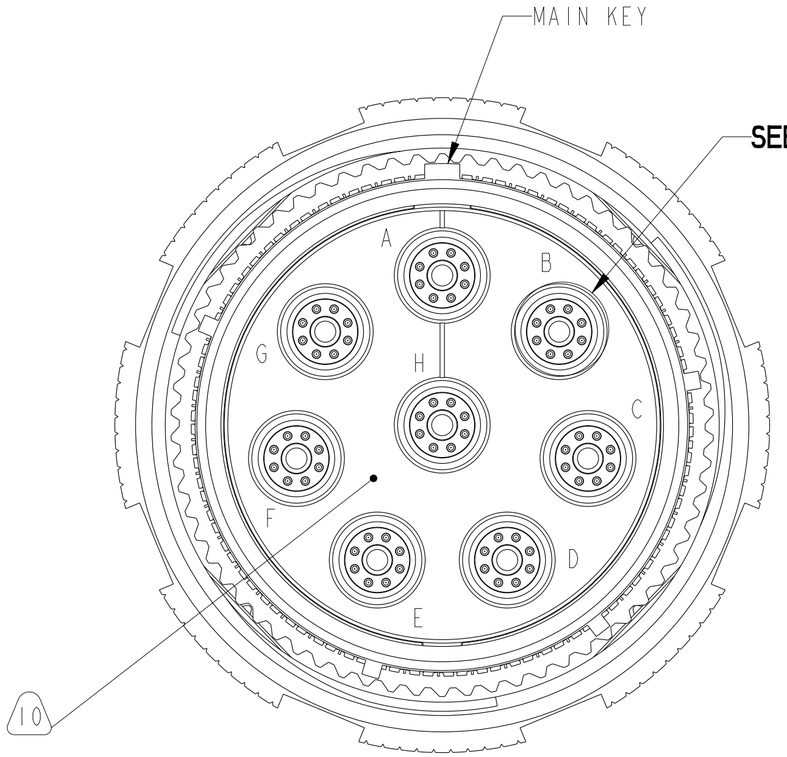
SEE SHEET 3

NOTES:

CA-628485-G09X
SHEET 2 OF 3
REV. A



VIEW AT **BB-BB**
P1 THRU P8 CONNECTORS
SCALE 5.0



VIEW AT **AA-AA**
P0 CONNECTOR
SCALE 3.000

11. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE MARKING.

(10.) SEE LQ-21825-8 FOR INSERT ARRANGEMENT.

9. P0 CONNECTOR SHELL IS ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

(8.) PROTECTIVE CAP SHALL BE INSTALLED PRIOR TO SHIPPING.

7. CABLE ASSEMBLY SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH IPC/WHMA-A-620, CLASS 3.

(6.) CABLE BUNDLE SHALL BE ZIP TIED APPROXIMATELY EVERY 4.0 INCHES UP TO THE BREAKOUT POINT.

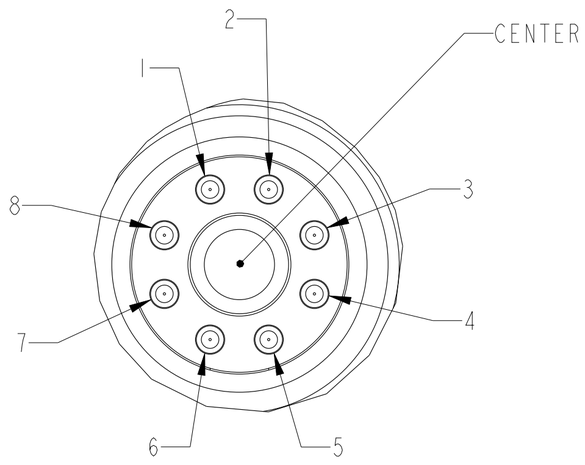
(5.) CABLE ASSEMBLIES SHALL BE INSTALLED IN CONNECTOR TO MEET THE REQUIREMENTS OF THE WIRING TABLE.

(4.) MARKING SHALL BE APPLIED WITH BLACK INK ON WHITE LABEL PER MARKING TABLE. LABEL 9 SHALL BE LOCATED APPROXIMATELY AT THE CENTER OF THE HARNESS.

3. PROCESS SPEC:
9-9172-3

2. PACKAGE PER PRODUCTION PROCESS SHEET.

(1.) CABLE SHALL BE TESTED PER ELECTRICAL TEST TABLE.



DETAIL A
SCALE 10.000

NOTES:

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G09X	A
SCALE: 1.3	REF: CA-628485-F8X	SHEET 3 OF 3	

DOCUMENT NO. CA-628485-G09X | SHEET 3 OF 3 | REV. A

DOCUMENT NO.	SHEET	REV.
CA-628485-G10	SHEET 1 OF 2	A

REVISIONS M

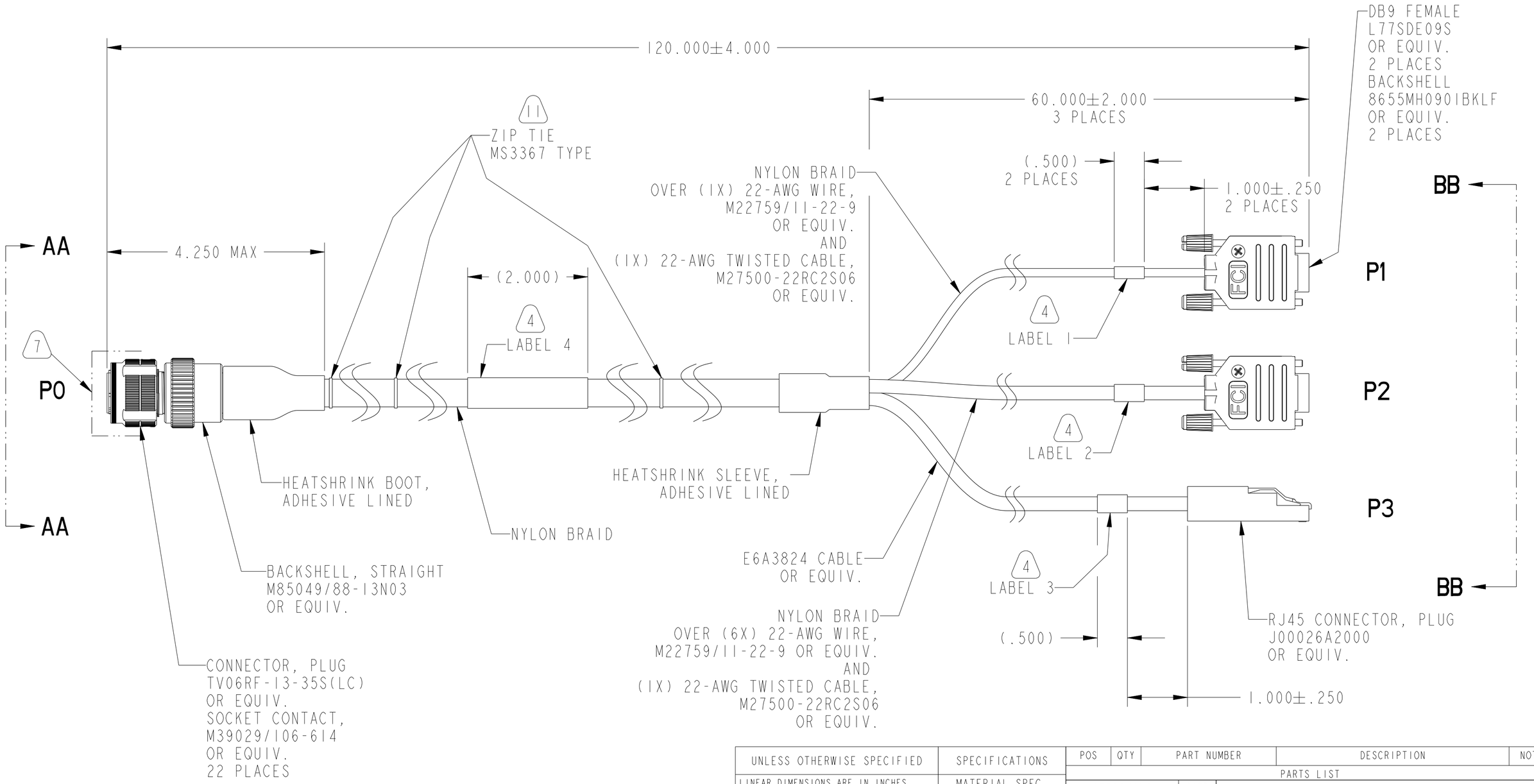
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	4/30/20

MARKING TABLE (4)

LABEL ID	MARKING
LABEL 1	P1
LABEL 2	P2
LABEL 3	P3
LABEL 4	AMPHENOL CA-628485-G10 SERIALIZED DATE CODE (9-9172-3) LOT NUMBER

ELECTRICAL TEST (1)

DESCRIPTION	REQUIREMENTS
PINOUT/ CONTINUITY	PER WIRING TABLE
INSULATION RESISTANCE	500VDC FOR 5 SECONDS 200 MEGOHM MIN.



SEE SHEET 2

NOTES:

RELEASED / May. 01 2020, 2:51:00 PM

NONE

NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CA-628485-G10.ASSEM
Drawing Name:
CA-628485-G10

UNLESS OTHERWISE SPECIFIED
LINEAR DIMENSIONS ARE IN INCHES
TOLERANCES:
.XXXX = ±.0005 ANGLES= ±2°
.XXX = ±.010
.XX = ±.03
.X = ±.1
DIM.& TOL. PER ASME Y14.5M;
DRM PER MIL-STD-31000;
OTHER Amphenol Stds. PER 9-3800
LEGENDS:
=FLAG NOTE CALL OUT
REFERENCE ONLY

SPECIFICATIONS
MATERIAL SPEC.
NONE
PROCESS SPEC.
SEE NOTE 3

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS		DATE
PREPARED BY	R.PATEL	5-Dec-19
ENGINEER IN CHARGE	W. LEE	
DESIGN MANAGER	J. ROTHROCK	
DESIGN ACTIVITY GROUP	CI	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

TEST CABLE
TV06RF-13-35S(LC) TO 2x DB9 AND RJ45
ELECTROLESS NICKEL, ALUMINUM ALLOY

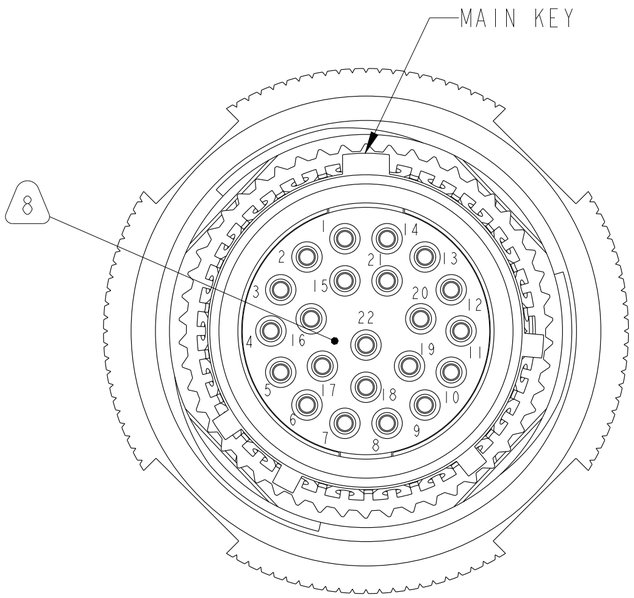
SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G10	A

SCALE: 0.8 | REF. CF-980062-095 | SHEET 1 OF 2

DOCUMENT NO.	SHEET	REV.
CA-628485-G10	SHEET 1 OF 2	A

Eng PDM Information For Reference Only
REVISION A
VERSION 1

FORMAT: C-U-E-1



VIEW AT AA-AA
P0 CONNECTOR
SCALE 4.000

WIRING TABLE (5)

P0 CONNECTOR CAVITY ID	P1 CONNECTOR CAVITY ID	P2 CONNECTOR CAVITY ID	P3 CONNECTOR PIN ID	CABLE INFO	DESCRIPTION
1	3	--	--	22 AWG TWISTED CABLE	RS232_CONSOLE_TX
2	2	--	--		RS232_CONSOLE_RX
SHELL	SHELL	--	--		SHIELD
3	5	--	--	22 AWG WIRE	RS232_CONSOLE_GND
4	--	1	--	22 AWG WIRE	DEBUG_JTAG_TCLK
5	--	2	--		DEBUG_JTAG_TDO
6	--	3	--		DEBUG_JTAG_TDI
7	--	4	--		DEBUG_JTAG_TTMS
8	--	5	--		DEBUG_I2C_SCL
9	--	6	--		DEBUG_I2C_SDA
10	N/C				
11	N/C				
12	--	7	--	22 AWG TWISTED CABLE	DEBUG_CPU_USB_D+
13	--	8	--		DEBUG_CPU_USB_D-
SHELL	--	SHELL	--		SHIELD
14	--	--	1	E6A3824 CABLE	DEBUG_CPU_1GBASET_DA+
15	--	--	2		DEBUG_CPU_1GBASET_DA-
16	--	--	3		DEBUG_CPU_1GBASET_DB+
17	--	--	6		DEBUG_CPU_1GBASET_DB-
18	--	--	4		DEBUG_CPU_1GBASET_DC+
19	--	--	5		DEBUG_CPU_1GBASET_DC-
20	--	--	7		DEBUG_CPU_1GBASET_DD+
21	--	--	8		DEBUG_CPU_1GBASET_DD-
SHELL	--	--	SHELL		SHIELD
22	N/C				

(11.) CABLE BUNDLE SHALL BE ZIP TIED APPROXIMATELY EVERY 4 INCHES UP TO THE BREAKOUT POINT.

10. CABLE ASSEMBLY SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH IPC/WHMA-A-620, CLASS 3.

9. P0 CONNECTOR SHELL IS ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

(8.) SEE L-21813-35 FOR INSERT ARRANGEMENT.

(7.) PROTECTIVE CAP SHALL BE INSTALLED PRIOR TO SHIPPING.

6. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE MARKING.

(5.) CABLE ASSEMBLIES SHALL BE INSTALLED IN CONNECTOR TO MEET THE REQUIREMENTS OF THE WIRING TABLE.

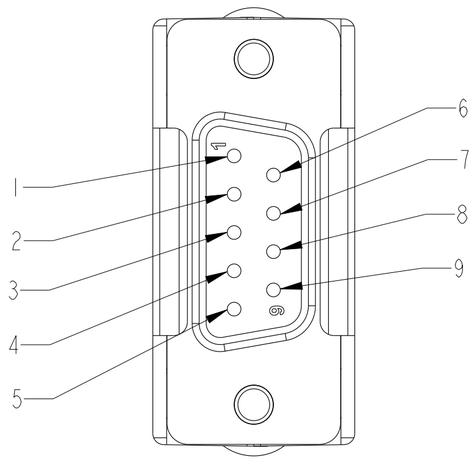
(4.) MARKING SHALL BE APPLIED WITH BLACK INK ON WHITE LABEL PER MARKING TABLE. LABEL 4 SHALL BE LOCATED APPROXIMATELY AT THE CENTER OF THE HARNESS.

3. PROCESS SPEC:
9-9172-3

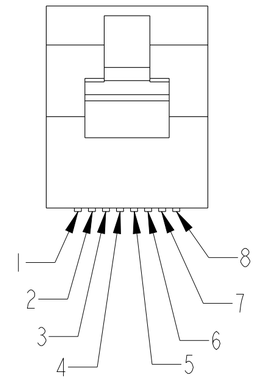
2. PACKAGE PER PRODUCTION PROCESS SHEET.

(1.) CABLE ASSEMBLY SHALL BE TESTED PER ELECTRICAL TEST TABLE.

NOTES:



VIEW AT BB-BB
P1 AND P2 CONNECTOR
SCALE 3.000
2 PLACES



VIEW AT BB-BB
P3 CONNECTOR
SCALE 3.000

DOCUMENT NO.	SHEET	REV.
CA-628485-G10	SHEET 2 OF 2	A

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G10	A
SCALE: 0.6	REF: CF-980062-095	SHEET 2 OF 2	

CA-628485-G10 | SHEET 2 OF 2 | A

FORMAT: C-U.E-1

DOCUMENT NO.	SHEET	REV.
CA-628485-G11	SHEET 1 OF 2	A

REVISIONS M

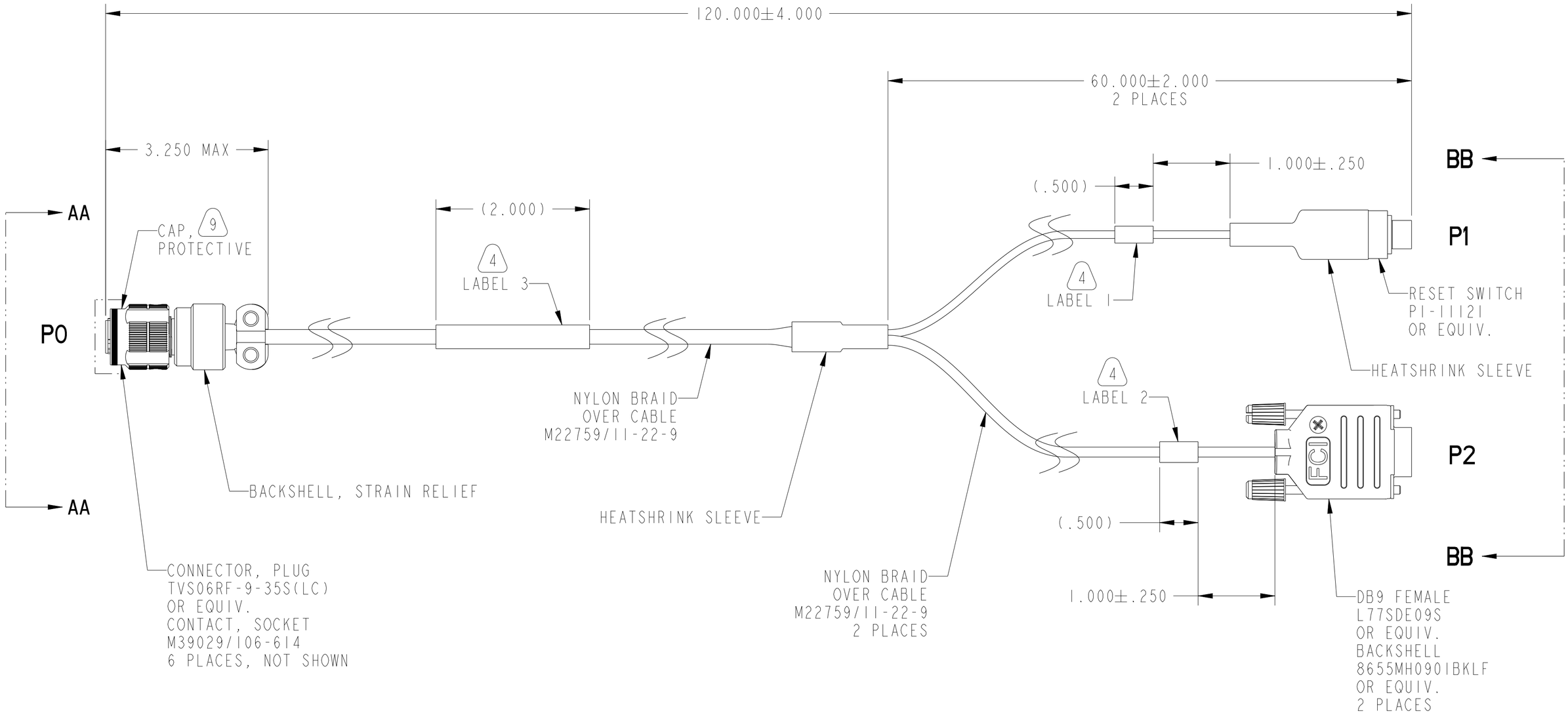
LTR	DESCRIPTION	DATE
A	INITIAL RELEASE	3/30/20

MARKING TABLE (4)

LABEL ID	MARKING
LABEL 1	P1
LABEL 2	P2
LABEL 3	AMPHENOL CA-628485-G11 SERIALIZED DATE CODE (9-9172-3) LOT NUMBER

ELECTICAL TEST TABLE (1)

DESCRIPTION	REQUIREMENT
PINOUT/CONTINUITY	PER WIRING TABLE
INSULATION RESISTANCE	500 VDC FOR 5 SEC. 200 MEGOHM MIN.



SEE SHEET 2

NOTES:

THE USE OF THIS DOCUMENT IS UNLIMITED.
HOWEVER, DOCUMENTS REFERENCED HEREON
MAY CONTAIN LIMITED RIGHTS DATA.

NONE
NEXT ASSEMBLY

PRO/ENGINEER INFORMATION
Pro/e Model Used:
CA-628485-G11.ASSEM
Drawing Name:
CA-628485-G11

UNLESS OTHERWISE SPECIFIED
LINEAR DIMENSIONS ARE IN INCHES
TOLERANCES:
.XXXX = ±.0005 ANGLES= ±2°
.XXX = ±.010
.XX = ±.03
.X = ±.1
DIM.& TOL. PER ASME Y14.5M;
DRM PER MIL-STD-31000;
OTHER Amphenol Stds. PER 9-3800
LEGENDS:
=FLAG NOTE CALL OUT
REFERENCE ONLY

SPECIFICATIONS
MATERIAL SPEC.
NONE
PROCESS SPEC.
SEE NOTE 3

POS	QTY	PART NUMBER	DESCRIPTION	NOTE

PARTS LIST

APPROVALS		DATE
PREPARED BY	R.PATEL	30-Mar-20
ENGINEER IN CHARGE	W.LEE	
DESIGN MANAGER	J.ROTHROCK	
DESIGN ACTIVITY GROUP	CI	

THIRD ANGLE PROJECTION

AMPHENOL CORPORATION
40-60 DELAWARE AVENUE
SIDNEY, N.Y. 13838

TEST CABLE, POWER
TVS06RF-9-35S(LC) TO DB9 & RESET SWITCH

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G11	A

SCALE: 1.0 | REF. CA-628485-B39 | SHEET 1 OF 2

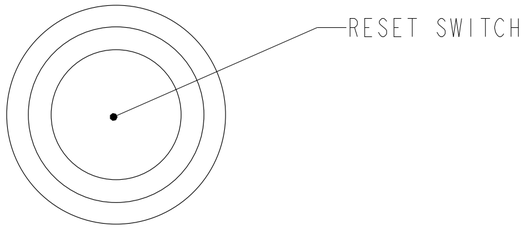
DOCUMENT NO.	SHEET	REV.
CA-628485-G11	SHEET 1 OF 2	A

FORMAT: C-U.E-1

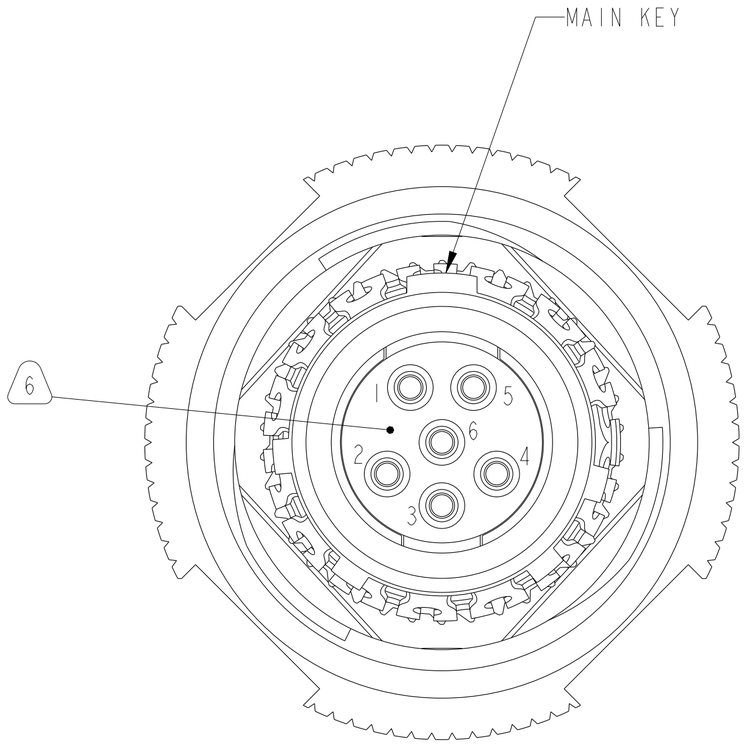
VERSION 0
REVISION A
Eng PDM Information For Reference Only

WIRING TABLE (5)

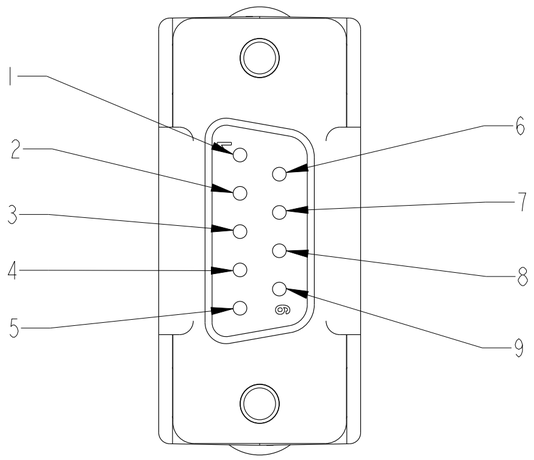
P0 CONNECTOR CAVITY ID	P1 RESET SWITCH ID	P2 DB9 CONNECTOR ID
1	POSITIVE	--
2	--	1
3	--	2
4	--	3
5	GND	--
6	N/C	



VIEW AT BB-BB
P1 CONNECTOR



VIEW AT AA-AA
P0 CONNECTOR
SCALE 6.000



VIEW AT BB-BB
P2 CONNECTOR

12. RESET SWITCH FUNCTION: OFF-(ON).

11. SEE WORK ORDER FOR PERMISSIBLE ADDITIONAL OR ALTERNATE MARKING.

10. RESET SWITCH OPERATING TEMPERATURE: -55°C TO 85°C.

(9.) PROTECTIVE CAPS SHALL BE INSTALLED PRIOR TO SHIPPING.

8. P0 CONNECTOR SHELL IS ELECTROLESS NICKEL PLATED ALUMINUM ALLOY.

7. CABLE ASSEMBLY SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH IPC/WHMA-A-620, CLASS 3.

(6.) SEE L-21809-35 FOR INSERT ARRANGEMENT.

(5.) CABLE ASSEMBLIES SHALL BE INSTALLED IN CONNECTOR TO MEET THE REQUIREMENTS OF THE WIRING TABLE.

(4.) MARKING SHALL BE APPLIED WITH BLACK INK ON WHITE LABEL PER MARKING TABLE. LABEL 3 SHALL BE LOCATED APPROXIMATELY AT THE CENTER OF THE HARNESS.

3. PROCESS SPEC: 9-9172-3

2. PACKAGE PER PRODUCTION PROCESS SHEET.

(1.) CABLE SHALL BE TESTED PER ELECTRICAL TEST TABLE.

NOTES:

SIZE	CAGE CODE	DOCUMENT NO.	REV.
C	77820	CA-628485-G11	A
SCALE: 3.0	REF: CA-628485-B39	SHEET 2 OF 2	