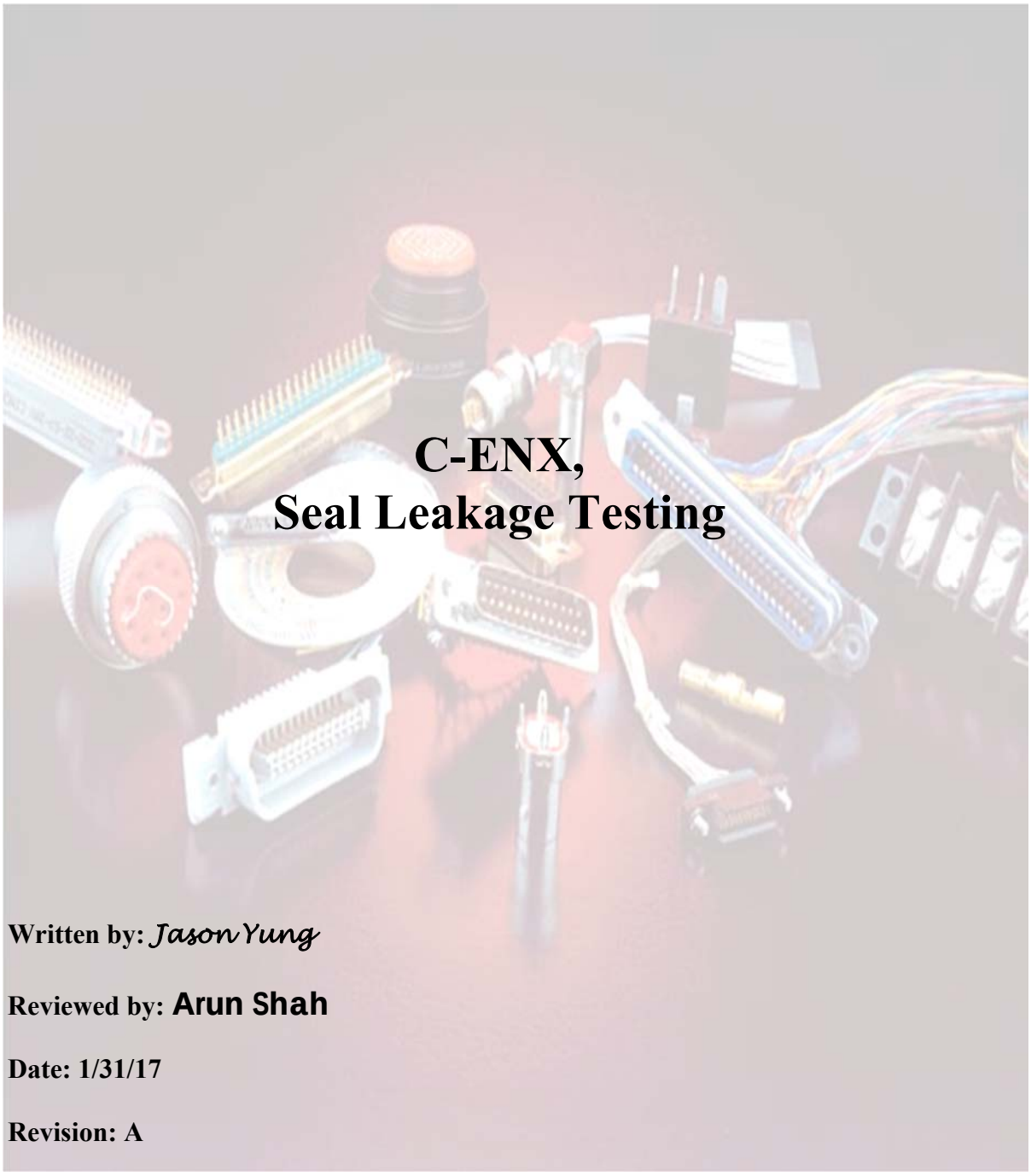

C-ENX,
Seal Leakage Testing

Written by: *Jason Yung*

Reviewed by: **Arun Shah**

Date: 1/31/17

Revision: A

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Revision History

Date	Revision	Description	Revised By
1/31/17	A	Initial Release	JY

CERTIFICATION

All equipment and measuring instruments used during testing were calibrated using standards with accuracies traceable to the National Institute of Standards and Technology and complies with the applicable requirements of ANSI / NCSL Z540-1 and ISO / IEC 17025.

All data, raw and summarized, analysis and conclusions presented herein are the property of Cinch Connectors, Inc. No copy of this report, except in full, shall be forwarded to any agency, customer, etc., without the written approval of Cinch Connectors, Inc.

TEST CONDITIONS

Unless otherwise specified, general test conditions were performed at:

- Temperature: +20°c to +35°c
- Relative Humidity: 80% or less
- Barometric Pressure: Normal ground, 610 to 775mmHg

Scope: The purpose for this testing is to provide data for customer(s) on the seal integrity & protection to the electrical and environmental performance aspects of the C-ENX connectors.

Manufacturer: Cinch Connectivity Solutions | a bel group

Definition of Test Specimen:

	Sample ID	Part Number	Description
Group A Test Samples (22AWG)	22A1S	EPXB2LL22N w/ INSERTS EPXBE40SA & EPXBE40SB	C-ENX, EN 4644 Modular Rectangular Connectors
	22A1P	EPXB2PL12N w/ INSERTS EPXBE40PA & EPXBE40PB	
	22A2S	EPXB2LL22N w/ INSERTS EPXBE40SA & EPXBE40SB	C-ENX, EN 4644 Modular Rectangular Connectors
	22A2P	EPXB2PL12N w/ INSERTS EPXBE40PA & EPXBE40PB	
Group B Test Samples (26AWG)	26B1S	EPXB2LL22N w/ INSERTS EPXBE40SA & EPXBE40SB	C-ENX, EN 4644 Modular Rectangular Connectors
	26B1P	EPXB2PL12N w/ INSERTS EPXBE40PA & EPXBE40PB	
	26B2S	EPXB2LL22N w/ INSERTS EPXBE40SA & EPXBE40SB	C-ENX, EN 4644 Modular Rectangular Connectors
	26B2P	EPXB2PL12N w/ INSERTS EPXBE40PA & EPXBE40PB	

Reference Document(s):

- ARINC Specification 600, Attachment 19 Connector Specification
- EIA/ECA-364-xx – Electrical Connector / Socket Test Procedures

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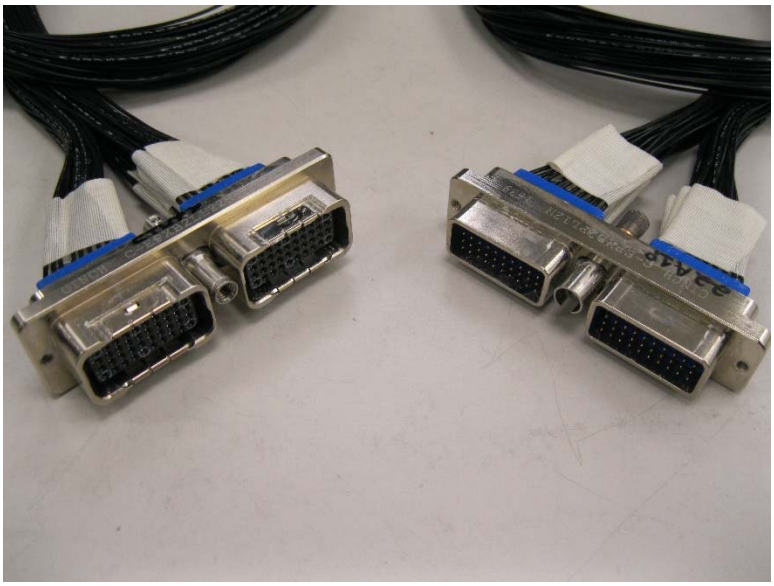
Test Specimen Photos



Group A; Typical 22AWG, C-ENX Test Sample

Group B; Typical 26AWG, C-ENX Test Sample

GROUP(S)
A(22AWG) & B(26AWG)

CONNECTOR SAMPLE ID(s):

22A1S/22A1P & 22A2S/22A2P

EPXB2LL22N, Receptacle Shell w/ EPXBE40SA & EPXBE40SB Inserts
EPXB2PL12N, Plug Shell w/ EPXBE40PA & EPXBE40PB Inserts

26B1S/26B1P & 26B2S/26B2P

EPXB2LL22N, Receptacle Shell w/ EPXBE40SA & EPXBE40SB Inserts
EPXB2PL12N, Plug Shell w/ EPXBE40PA & EPXBE40PB Inserts

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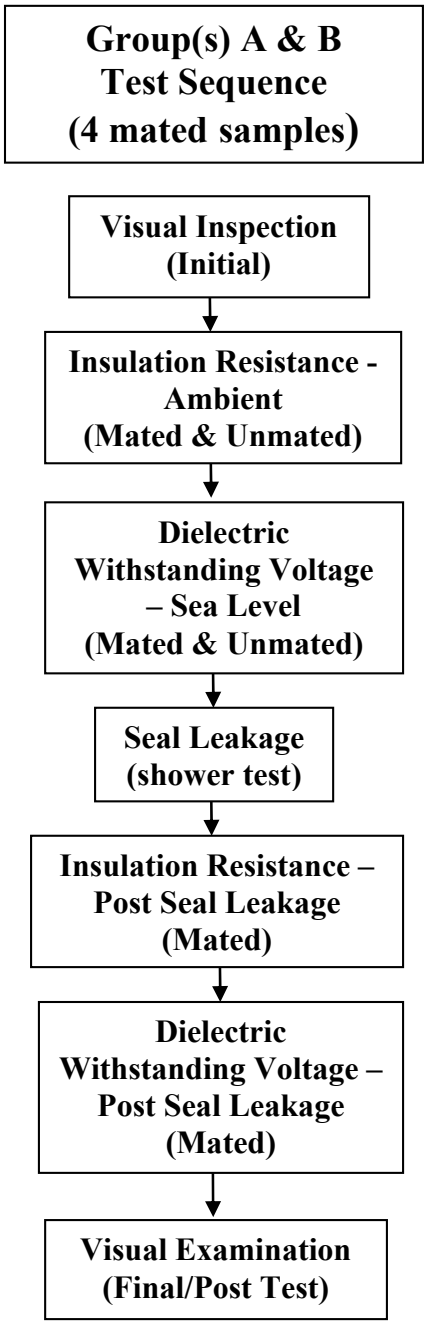

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Group(s) A (22AWG) & B (26AWG), Test Data Summary

Test	Requirement(s)	Result(s)	Tested By
Visual Inspection (Initial)	Unmated/Mated connectors shall be visually inspected under 10x magnification for any type of damage(s) that would be detrimental to the intended function of the connectors.	PASS	Cinch Engineering Test Lab
Insulation Resistance – Initial (Mated & Unmated)	Unmated/Mated connectors should be tested as specified in Method 3003 of MIL-STD-1344. The following details apply: 1. A minimum of 20 signal contacts in each insert should be tested. The location of the contacts should be selected such that measurements are distributed to include the corners, sides and center of the insert. 2. 100% of the power & coaxial contacts should be tested. 3. The tolerance of the applied voltage should be +/-10% 4. Measurements should be made between adjacent pairs of contacts & between the shell and contacts adjacent to the shell.	PASS	Cinch Engineering Test Lab
Dielectric Withstanding Voltage – Initial (Mated & Unmated)	Unmated/Mated connectors should be tested as specified in Method 3001 of MIL-STD-1344. The following details apply: 1. The magnitude of the test should be as specified in Table 19.4.8. 2. The test voltage should be applied between adjacent pairs of contacts & between the shell and contacts adjacent to the shell. 3. A minimum of 20 signal contacts in each insert should be tested. The location of the contacts should be selected such that measurements are distributed to include the corners, sides and center of the insert. 4. 100% of the power & coaxial contacts should be tested. 5. The test voltage should be maintained at the specified value for 60 seconds minimum.	PASS	Cinch Engineering Test Lab

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Group(s) 22AWG & 26AWG, Test Data Summary (Con't)

Test	Requirement(s)	Result(s)	Tested By
Seal Leakage (Shower Test)	When tested IAW Section 19.5.19 & 19.5.3, mated connectors shall have a minimum IR of 100MΩ. In addition, the mated connectors should withstand a dielectric test voltage of 1500Vrms, 60Hz, with a maximum leakage current of 1mA when test IAW Section 19.5.5.	PASS	Cinch Engineering Test Lab
Insulation Resistance – Post Seal Leakage (Mated)	Unmated/Mated connectors should be tested as specified in Method 3003 of MIL-STD-1344. The following details apply: 1. A minimum of 20 signal contacts in each insert should be tested. The location of the contacts should be selected such that measurements are distributed to include the corners, sides and center of the insert. 2. 100% of the power & coaxial contacts should be tested. 3. The tolerance of the applied voltage should be +/-10% 4. Measurements should be made between adjacent pairs of contacts & between the shell and contacts adjacent to the shell.	PASS	Cinch Engineering Test Lab
Dielectric Withstanding Voltage – Post Seal Leakage (Mated)	Unmated/Mated connectors should be tested as specified in Method 3001 of MIL-STD-1344. The following details apply: 1. The magnitude of the test should be as specified in Table 19.4.8. 2. The test voltage should be applied between adjacent pairs of contacts & between the shell and contacts adjacent to the shell. 3. A minimum of 20 signal contacts in each insert should be tested. The location of the contacts should be selected such that measurements are distributed to include the corners, sides and center of the insert. 4. 100% of the power & coaxial contacts should be tested. 5. The test voltage should be maintained at the specified value for 60 seconds minimum.	PASS	Cinch Engineering Test Lab

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Group(s) 22AWG & 26AWG, Test Data Summary (Con't)

Test	Requirement(s)	Result(s)	Tested By
Visual Inspection (Final/Post Test)	Unmated/Mated connectors shall be visually inspected under 10x magnification for any type of damage(s) that would be detrimental to the intended function of the connectors.	PASS	Cinch Engineering Test Lab

Description of Test: Visual Inspection (Initial)
Test Date: 1/6/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: EIA-364-18
Equipment: Bench Microscope

Test Results: All modular rectangular connectors were inspected under 10x magnification. There was also no evidence of any damage(s) that could affect the connector's form, fit & functionality.

Typical 22AWG, C-ENX Connectors

Typical 26AWG, C-ENX Connectors

Description of Test: Insulation Resistance (IR), Initial – Ambient Temp.
Test Date: 1/9/17 – 1/16/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: Arinc Specification 600, Para.19.4.6 & 19.5.3
Equipment: M7650-1, M00597, M00595, M00598, M00599, M00600, M00596 and M00601

Test Results: This test was performed as specified.
*See next following pages for the Initial Insulation Resistance test results recorded and below for typical IR test setup.

Automated IR Test System

Typical IR test setup; Mated connector

Typical IR test setup; Un-mated Connector

Initial Insulation Resistance Test Results

SAMPLE 22A1S (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 22A1P (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 22A1S & 22A1P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 22A2S (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 22A2P (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 22A2S & 22A2P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B1S (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B1P (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B1S & 26B1P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B2S (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B2P (Unmated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Initial Insulation Resistance Test Results (Con't)

SAMPLE 26B2S & 26B2P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Description of Test: Dielectric Withstanding Voltage (Initial – Sea Level)
Test Date: 1/10/17 – 1/16/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: Arinc Specification 600, Para.19.4.8 & 19.5.5
Equipment: M7650-1, M00597, M00595, M00598, M00599, M00600, M00596 and M00601

Test Results: This test was performed as specified.
*See next following pages for the Initial Dielectric Withstanding Voltage test results recorded and below for typical DWV test setup.

Automated IR Test System

Typical IR test setup; Mated connector

Typical IR test setup; Un-mated Connector

Initial Dielectric Withstanding Voltage Test Results

SAMPLE 22A1S (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.116	Pass
2 to All	1500	<1.0	0.119	Pass
3 to All	1500	<1.0	0.121	Pass
4 to All	1500	<1.0	0.122	Pass
5 to All	1500	<1.0	0.117	Pass
6 to All	1500	<1.0	0.118	Pass
7 to All	1500	<1.0	0.118	Pass
8 to All	1500	<1.0	0.117	Pass
9 to All	1500	<1.0	0.113	Pass
10 to All	1500	<1.0	0.114	Pass
11 to All	1500	<1.0	0.116	Pass
12 to All	1500	<1.0	0.117	Pass
13 to All	1500	<1.0	0.117	Pass
14 to All	1500	<1.0	0.120	Pass
15 to All	1500	<1.0	0.118	Pass
16 to All	1500	<1.0	0.118	Pass
17 to All	1500	<1.0	0.110	Pass
18 to All	1500	<1.0	0.118	Pass
19 to All	1500	<1.0	0.116	Pass
20 to All	1500	<1.0	0.113	Pass
21 to All	1500	<1.0	0.117	Pass
22 to All	1500	<1.0	0.118	Pass
23 to All	1500	<1.0	0.118	Pass
24 to All	1500	<1.0	0.114	Pass
25 to All	1500	<1.0	0.119	Pass
26 to All	1500	<1.0	0.123	Pass
27 to All	1500	<1.0	0.120	Pass
28 to All	1500	<1.0	0.124	Pass
29 to All	1500	<1.0	0.118	Pass
30 to All	1500	<1.0	0.118	Pass
31 to All	1500	<1.0	0.116	Pass
32 to All	1500	<1.0	0.119	Pass
33 to All	1500	<1.0	0.108	Pass
34 to All	1500	<1.0	0.116	Pass
35 to All	1500	<1.0	0.114	Pass
36 to All	1500	<1.0	0.117	Pass
37 to All	1500	<1.0	0.117	Pass
38 to All	1500	<1.0	0.113	Pass
39 to All	1500	<1.0	0.118	Pass
40 to All	1500	<1.0	0.112	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A1P (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.114	Pass
2 to All	1500	<1.0	0.120	Pass
3 to All	1500	<1.0	0.121	Pass
4 to All	1500	<1.0	0.120	Pass
5 to All	1500	<1.0	0.117	Pass
6 to All	1500	<1.0	0.118	Pass
7 to All	1500	<1.0	0.119	Pass
8 to All	1500	<1.0	0.117	Pass
9 to All	1500	<1.0	0.114	Pass
10 to All	1500	<1.0	0.115	Pass
11 to All	1500	<1.0	0.116	Pass
12 to All	1500	<1.0	0.114	Pass
13 to All	1500	<1.0	0.119	Pass
14 to All	1500	<1.0	0.118	Pass
15 to All	1500	<1.0	0.119	Pass
16 to All	1500	<1.0	0.119	Pass
17 to All	1500	<1.0	0.112	Pass
18 to All	1500	<1.0	0.121	Pass
19 to All	1500	<1.0	0.117	Pass
20 to All	1500	<1.0	0.115	Pass
21 to All	1500	<1.0	0.118	Pass
22 to All	1500	<1.0	0.116	Pass
23 to All	1500	<1.0	0.117	Pass
24 to All	1500	<1.0	0.110	Pass
25 to All	1500	<1.0	0.123	Pass
26 to All	1500	<1.0	0.123	Pass
27 to All	1500	<1.0	0.120	Pass
28 to All	1500	<1.0	0.122	Pass
29 to All	1500	<1.0	0.120	Pass
30 to All	1500	<1.0	0.115	Pass
31 to All	1500	<1.0	0.118	Pass
32 to All	1500	<1.0	0.121	Pass
33 to All	1500	<1.0	0.113	Pass
34 to All	1500	<1.0	0.115	Pass
35 to All	1500	<1.0	0.114	Pass
36 to All	1500	<1.0	0.117	Pass
37 to All	1500	<1.0	0.119	Pass
38 to All	1500	<1.0	0.113	Pass
39 to All	1500	<1.0	0.117	Pass
40 to All	1500	<1.0	0.110	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A1S & 22A1P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.142	Pass
2 to All	1500	<1.0	0.150	Pass
3 to All	1500	<1.0	0.149	Pass
4 to All	1500	<1.0	0.150	Pass
5 to All	1500	<1.0	0.143	Pass
6 to All	1500	<1.0	0.140	Pass
7 to All	1500	<1.0	0.141	Pass
8 to All	1500	<1.0	0.149	Pass
9 to All	1500	<1.0	0.141	Pass
10 to All	1500	<1.0	0.136	Pass
11 to All	1500	<1.0	0.147	Pass
12 to All	1500	<1.0	0.144	Pass
13 to All	1500	<1.0	0.141	Pass
14 to All	1500	<1.0	0.145	Pass
15 to All	1500	<1.0	0.142	Pass
16 to All	1500	<1.0	0.140	Pass
17 to All	1500	<1.0	0.138	Pass
18 to All	1500	<1.0	0.145	Pass
19 to All	1500	<1.0	0.144	Pass
20 to All	1500	<1.0	0.142	Pass
21 to All	1500	<1.0	0.145	Pass
22 to All	1500	<1.0	0.147	Pass
23 to All	1500	<1.0	0.142	Pass
24 to All	1500	<1.0	0.139	Pass
25 to All	1500	<1.0	0.149	Pass
26 to All	1500	<1.0	0.149	Pass
27 to All	1500	<1.0	0.149	Pass
28 to All	1500	<1.0	0.151	Pass
29 to All	1500	<1.0	0.144	Pass
30 to All	1500	<1.0	0.140	Pass
31 to All	1500	<1.0	0.139	Pass
32 to All	1500	<1.0	0.144	Pass
33 to All	1500	<1.0	0.138	Pass
34 to All	1500	<1.0	0.139	Pass
35 to All	1500	<1.0	0.136	Pass
36 to All	1500	<1.0	0.137	Pass
37 to All	1500	<1.0	0.141	Pass
38 to All	1500	<1.0	0.136	Pass
39 to All	1500	<1.0	0.143	Pass
40 to All	1500	<1.0	0.138	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A2S (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.114	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.120	Pass
4 to All	1500	<1.0	0.119	Pass
5 to All	1500	<1.0	0.117	Pass
6 to All	1500	<1.0	0.115	Pass
7 to All	1500	<1.0	0.115	Pass
8 to All	1500	<1.0	0.118	Pass
9 to All	1500	<1.0	0.114	Pass
10 to All	1500	<1.0	0.114	Pass
11 to All	1500	<1.0	0.118	Pass
12 to All	1500	<1.0	0.118	Pass
13 to All	1500	<1.0	0.120	Pass
14 to All	1500	<1.0	0.117	Pass
15 to All	1500	<1.0	0.124	Pass
16 to All	1500	<1.0	0.120	Pass
17 to All	1500	<1.0	0.116	Pass
18 to All	1500	<1.0	0.121	Pass
19 to All	1500	<1.0	0.119	Pass
20 to All	1500	<1.0	0.117	Pass
21 to All	1500	<1.0	0.116	Pass
22 to All	1500	<1.0	0.120	Pass
23 to All	1500	<1.0	0.119	Pass
24 to All	1500	<1.0	0.114	Pass
25 to All	1500	<1.0	0.123	Pass
26 to All	1500	<1.0	0.124	Pass
27 to All	1500	<1.0	0.121	Pass
28 to All	1500	<1.0	0.123	Pass
29 to All	1500	<1.0	0.118	Pass
30 to All	1500	<1.0	0.116	Pass
31 to All	1500	<1.0	0.117	Pass
32 to All	1500	<1.0	0.118	Pass
33 to All	1500	<1.0	0.109	Pass
34 to All	1500	<1.0	0.114	Pass
35 to All	1500	<1.0	0.115	Pass
36 to All	1500	<1.0	0.117	Pass
37 to All	1500	<1.0	0.118	Pass
38 to All	1500	<1.0	0.113	Pass
39 to All	1500	<1.0	0.116	Pass
40 to All	1500	<1.0	0.112	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A2P (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.115	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.121	Pass
4 to All	1500	<1.0	0.120	Pass
5 to All	1500	<1.0	0.116	Pass
6 to All	1500	<1.0	0.117	Pass
7 to All	1500	<1.0	0.116	Pass
8 to All	1500	<1.0	0.116	Pass
9 to All	1500	<1.0	0.115	Pass
10 to All	1500	<1.0	0.115	Pass
11 to All	1500	<1.0	0.116	Pass
12 to All	1500	<1.0	0.113	Pass
13 to All	1500	<1.0	0.117	Pass
14 to All	1500	<1.0	0.118	Pass
15 to All	1500	<1.0	0.117	Pass
16 to All	1500	<1.0	0.119	Pass
17 to All	1500	<1.0	0.114	Pass
18 to All	1500	<1.0	0.118	Pass
19 to All	1500	<1.0	0.117	Pass
20 to All	1500	<1.0	0.115	Pass
21 to All	1500	<1.0	0.113	Pass
22 to All	1500	<1.0	0.116	Pass
23 to All	1500	<1.0	0.117	Pass
24 to All	1500	<1.0	0.110	Pass
25 to All	1500	<1.0	0.118	Pass
26 to All	1500	<1.0	0.121	Pass
27 to All	1500	<1.0	0.120	Pass
28 to All	1500	<1.0	0.121	Pass
29 to All	1500	<1.0	0.118	Pass
30 to All	1500	<1.0	0.115	Pass
31 to All	1500	<1.0	0.114	Pass
32 to All	1500	<1.0	0.116	Pass
33 to All	1500	<1.0	0.109	Pass
34 to All	1500	<1.0	0.110	Pass
35 to All	1500	<1.0	0.109	Pass
36 to All	1500	<1.0	0.118	Pass
37 to All	1500	<1.0	0.117	Pass
38 to All	1500	<1.0	0.112	Pass
39 to All	1500	<1.0	0.114	Pass
40 to All	1500	<1.0	0.108	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A2S & 22A2P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.139	Pass
2 to All	1500	<1.0	0.142	Pass
3 to All	1500	<1.0	0.143	Pass
4 to All	1500	<1.0	0.147	Pass
5 to All	1500	<1.0	0.143	Pass
6 to All	1500	<1.0	0.143	Pass
7 to All	1500	<1.0	0.141	Pass
8 to All	1500	<1.0	0.142	Pass
9 to All	1500	<1.0	0.136	Pass
10 to All	1500	<1.0	0.142	Pass
11 to All	1500	<1.0	0.141	Pass
12 to All	1500	<1.0	0.142	Pass
13 to All	1500	<1.0	0.142	Pass
14 to All	1500	<1.0	0.138	Pass
15 to All	1500	<1.0	0.141	Pass
16 to All	1500	<1.0	0.143	Pass
17 to All	1500	<1.0	0.137	Pass
18 to All	1500	<1.0	0.137	Pass
19 to All	1500	<1.0	0.139	Pass
20 to All	1500	<1.0	0.138	Pass
21 to All	1500	<1.0	0.140	Pass
22 to All	1500	<1.0	0.139	Pass
23 to All	1500	<1.0	0.145	Pass
24 to All	1500	<1.0	0.138	Pass
25 to All	1500	<1.0	0.146	Pass
26 to All	1500	<1.0	0.147	Pass
27 to All	1500	<1.0	0.143	Pass
28 to All	1500	<1.0	0.148	Pass
29 to All	1500	<1.0	0.143	Pass
30 to All	1500	<1.0	0.137	Pass
31 to All	1500	<1.0	0.142	Pass
32 to All	1500	<1.0	0.146	Pass
33 to All	1500	<1.0	0.136	Pass
34 to All	1500	<1.0	0.138	Pass
35 to All	1500	<1.0	0.131	Pass
36 to All	1500	<1.0	0.139	Pass
37 to All	1500	<1.0	0.148	Pass
38 to All	1500	<1.0	0.140	Pass
39 to All	1500	<1.0	0.144	Pass
40 to All	1500	<1.0	0.136	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B1S (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.116	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.121	Pass
4 to All	1500	<1.0	0.120	Pass
5 to All	1500	<1.0	0.119	Pass
6 to All	1500	<1.0	0.117	Pass
7 to All	1500	<1.0	0.118	Pass
8 to All	1500	<1.0	0.120	Pass
9 to All	1500	<1.0	0.119	Pass
10 to All	1500	<1.0	0.117	Pass
11 to All	1500	<1.0	0.121	Pass
12 to All	1500	<1.0	0.118	Pass
13 to All	1500	<1.0	0.117	Pass
14 to All	1500	<1.0	0.119	Pass
15 to All	1500	<1.0	0.121	Pass
16 to All	1500	<1.0	0.118	Pass
17 to All	1500	<1.0	0.113	Pass
18 to All	1500	<1.0	0.121	Pass
19 to All	1500	<1.0	0.120	Pass
20 to All	1500	<1.0	0.117	Pass
21 to All	1500	<1.0	0.119	Pass
22 to All	1500	<1.0	0.121	Pass
23 to All	1500	<1.0	0.120	Pass
24 to All	1500	<1.0	0.115	Pass
25 to All	1500	<1.0	0.119	Pass
26 to All	1500	<1.0	0.124	Pass
27 to All	1500	<1.0	0.121	Pass
28 to All	1500	<1.0	0.124	Pass
29 to All	1500	<1.0	0.121	Pass
30 to All	1500	<1.0	0.116	Pass
31 to All	1500	<1.0	0.117	Pass
32 to All	1500	<1.0	0.120	Pass
33 to All	1500	<1.0	0.110	Pass
34 to All	1500	<1.0	0.114	Pass
35 to All	1500	<1.0	0.114	Pass
36 to All	1500	<1.0	0.119	Pass
37 to All	1500	<1.0	0.119	Pass
38 to All	1500	<1.0	0.114	Pass
39 to All	1500	<1.0	0.119	Pass
40 to All	1500	<1.0	0.112	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B1P (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.114	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.121	Pass
4 to All	1500	<1.0	0.121	Pass
5 to All	1500	<1.0	0.118	Pass
6 to All	1500	<1.0	0.118	Pass
7 to All	1500	<1.0	0.119	Pass
8 to All	1500	<1.0	0.119	Pass
9 to All	1500	<1.0	0.116	Pass
10 to All	1500	<1.0	0.117	Pass
11 to All	1500	<1.0	0.119	Pass
12 to All	1500	<1.0	0.117	Pass
13 to All	1500	<1.0	0.119	Pass
14 to All	1500	<1.0	0.117	Pass
15 to All	1500	<1.0	0.121	Pass
16 to All	1500	<1.0	0.120	Pass
17 to All	1500	<1.0	0.116	Pass
18 to All	1500	<1.0	0.121	Pass
19 to All	1500	<1.0	0.117	Pass
20 to All	1500	<1.0	0.116	Pass
21 to All	1500	<1.0	0.116	Pass
22 to All	1500	<1.0	0.119	Pass
23 to All	1500	<1.0	0.118	Pass
24 to All	1500	<1.0	0.113	Pass
25 to All	1500	<1.0	0.123	Pass
26 to All	1500	<1.0	0.123	Pass
27 to All	1500	<1.0	0.122	Pass
28 to All	1500	<1.0	0.122	Pass
29 to All	1500	<1.0	0.119	Pass
30 to All	1500	<1.0	0.117	Pass
31 to All	1500	<1.0	0.117	Pass
32 to All	1500	<1.0	0.119	Pass
33 to All	1500	<1.0	0.108	Pass
34 to All	1500	<1.0	0.116	Pass
35 to All	1500	<1.0	0.114	Pass
36 to All	1500	<1.0	0.118	Pass
37 to All	1500	<1.0	0.120	Pass
38 to All	1500	<1.0	0.116	Pass
39 to All	1500	<1.0	0.118	Pass
40 to All	1500	<1.0	0.110	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B1S & 26B1P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.135	Pass
2 to All	1500	<1.0	0.143	Pass
3 to All	1500	<1.0	0.147	Pass
4 to All	1500	<1.0	0.142	Pass
5 to All	1500	<1.0	0.139	Pass
6 to All	1500	<1.0	0.141	Pass
7 to All	1500	<1.0	0.141	Pass
8 to All	1500	<1.0	0.141	Pass
9 to All	1500	<1.0	0.136	Pass
10 to All	1500	<1.0	0.136	Pass
11 to All	1500	<1.0	0.137	Pass
12 to All	1500	<1.0	0.139	Pass
13 to All	1500	<1.0	0.141	Pass
14 to All	1500	<1.0	0.142	Pass
15 to All	1500	<1.0	0.142	Pass
16 to All	1500	<1.0	0.140	Pass
17 to All	1500	<1.0	0.137	Pass
18 to All	1500	<1.0	0.145	Pass
19 to All	1500	<1.0	0.139	Pass
20 to All	1500	<1.0	0.141	Pass
21 to All	1500	<1.0	0.135	Pass
22 to All	1500	<1.0	0.139	Pass
23 to All	1500	<1.0	0.138	Pass
24 to All	1500	<1.0	0.132	Pass
25 to All	1500	<1.0	0.139	Pass
26 to All	1500	<1.0	0.145	Pass
27 to All	1500	<1.0	0.146	Pass
28 to All	1500	<1.0	0.143	Pass
29 to All	1500	<1.0	0.142	Pass
30 to All	1500	<1.0	0.136	Pass
31 to All	1500	<1.0	0.136	Pass
32 to All	1500	<1.0	0.139	Pass
33 to All	1500	<1.0	0.131	Pass
34 to All	1500	<1.0	0.139	Pass
35 to All	1500	<1.0	0.131	Pass
36 to All	1500	<1.0	0.139	Pass
37 to All	1500	<1.0	0.140	Pass
38 to All	1500	<1.0	0.136	Pass
39 to All	1500	<1.0	0.141	Pass
40 to All	1500	<1.0	0.132	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B2S (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.120	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.122	Pass
4 to All	1500	<1.0	0.123	Pass
5 to All	1500	<1.0	0.121	Pass
6 to All	1500	<1.0	0.120	Pass
7 to All	1500	<1.0	0.119	Pass
8 to All	1500	<1.0	0.121	Pass
9 to All	1500	<1.0	0.116	Pass
10 to All	1500	<1.0	0.120	Pass
11 to All	1500	<1.0	0.119	Pass
12 to All	1500	<1.0	0.118	Pass
13 to All	1500	<1.0	0.121	Pass
14 to All	1500	<1.0	0.121	Pass
15 to All	1500	<1.0	0.123	Pass
16 to All	1500	<1.0	0.121	Pass
17 to All	1500	<1.0	0.118	Pass
18 to All	1500	<1.0	0.122	Pass
19 to All	1500	<1.0	0.121	Pass
20 to All	1500	<1.0	0.120	Pass
21 to All	1500	<1.0	0.119	Pass
22 to All	1500	<1.0	0.118	Pass
23 to All	1500	<1.0	0.119	Pass
24 to All	1500	<1.0	0.113	Pass
25 to All	1500	<1.0	0.122	Pass
26 to All	1500	<1.0	0.124	Pass
27 to All	1500	<1.0	0.121	Pass
28 to All	1500	<1.0	0.122	Pass
29 to All	1500	<1.0	0.120	Pass
30 to All	1500	<1.0	0.118	Pass
31 to All	1500	<1.0	0.120	Pass
32 to All	1500	<1.0	0.123	Pass
33 to All	1500	<1.0	0.112	Pass
34 to All	1500	<1.0	0.116	Pass
35 to All	1500	<1.0	0.113	Pass
36 to All	1500	<1.0	0.120	Pass
37 to All	1500	<1.0	0.121	Pass
38 to All	1500	<1.0	0.118	Pass
39 to All	1500	<1.0	0.119	Pass
40 to All	1500	<1.0	0.115	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B2P (Unmated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.114	Pass
2 to All	1500	<1.0	0.121	Pass
3 to All	1500	<1.0	0.122	Pass
4 to All	1500	<1.0	0.122	Pass
5 to All	1500	<1.0	0.119	Pass
6 to All	1500	<1.0	0.117	Pass
7 to All	1500	<1.0	0.117	Pass
8 to All	1500	<1.0	0.120	Pass
9 to All	1500	<1.0	0.116	Pass
10 to All	1500	<1.0	0.118	Pass
11 to All	1500	<1.0	0.119	Pass
12 to All	1500	<1.0	0.119	Pass
13 to All	1500	<1.0	0.118	Pass
14 to All	1500	<1.0	0.119	Pass
15 to All	1500	<1.0	0.123	Pass
16 to All	1500	<1.0	0.120	Pass
17 to All	1500	<1.0	0.117	Pass
18 to All	1500	<1.0	0.121	Pass
19 to All	1500	<1.0	0.118	Pass
20 to All	1500	<1.0	0.119	Pass
21 to All	1500	<1.0	0.115	Pass
22 to All	1500	<1.0	0.121	Pass
23 to All	1500	<1.0	0.119	Pass
24 to All	1500	<1.0	0.114	Pass
25 to All	1500	<1.0	0.122	Pass
26 to All	1500	<1.0	0.125	Pass
27 to All	1500	<1.0	0.121	Pass
28 to All	1500	<1.0	0.121	Pass
29 to All	1500	<1.0	0.121	Pass
30 to All	1500	<1.0	0.118	Pass
31 to All	1500	<1.0	0.120	Pass
32 to All	1500	<1.0	0.120	Pass
33 to All	1500	<1.0	0.112	Pass
34 to All	1500	<1.0	0.116	Pass
35 to All	1500	<1.0	0.113	Pass
36 to All	1500	<1.0	0.118	Pass
37 to All	1500	<1.0	0.121	Pass
38 to All	1500	<1.0	0.116	Pass
39 to All	1500	<1.0	0.119	Pass
40 to All	1500	<1.0	0.115	Pass

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Initial Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B2S & 26B2P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.138	Pass
2 to All	1500	<1.0	0.147	Pass
3 to All	1500	<1.0	0.148	Pass
4 to All	1500	<1.0	0.148	Pass
5 to All	1500	<1.0	0.143	Pass
6 to All	1500	<1.0	0.144	Pass
7 to All	1500	<1.0	0.143	Pass
8 to All	1500	<1.0	0.146	Pass
9 to All	1500	<1.0	0.141	Pass
10 to All	1500	<1.0	0.141	Pass
11 to All	1500	<1.0	0.144	Pass
12 to All	1500	<1.0	0.141	Pass
13 to All	1500	<1.0	0.144	Pass
14 to All	1500	<1.0	0.142	Pass
15 to All	1500	<1.0	0.145	Pass
16 to All	1500	<1.0	0.146	Pass
17 to All	1500	<1.0	0.140	Pass
18 to All	1500	<1.0	0.146	Pass
19 to All	1500	<1.0	0.144	Pass
20 to All	1500	<1.0	0.141	Pass
21 to All	1500	<1.0	0.141	Pass
22 to All	1500	<1.0	0.144	Pass
23 to All	1500	<1.0	0.145	Pass
24 to All	1500	<1.0	0.138	Pass
25 to All	1500	<1.0	0.143	Pass
26 to All	1500	<1.0	0.148	Pass
27 to All	1500	<1.0	0.146	Pass
28 to All	1500	<1.0	0.144	Pass
29 to All	1500	<1.0	0.144	Pass
30 to All	1500	<1.0	0.141	Pass
31 to All	1500	<1.0	0.142	Pass
32 to All	1500	<1.0	0.143	Pass
33 to All	1500	<1.0	0.138	Pass
34 to All	1500	<1.0	0.140	Pass
35 to All	1500	<1.0	0.138	Pass
36 to All	1500	<1.0	0.143	Pass
37 to All	1500	<1.0	0.143	Pass
38 to All	1500	<1.0	0.139	Pass
39 to All	1500	<1.0	0.141	Pass
40 to All	1500	<1.0	0.136	Pass

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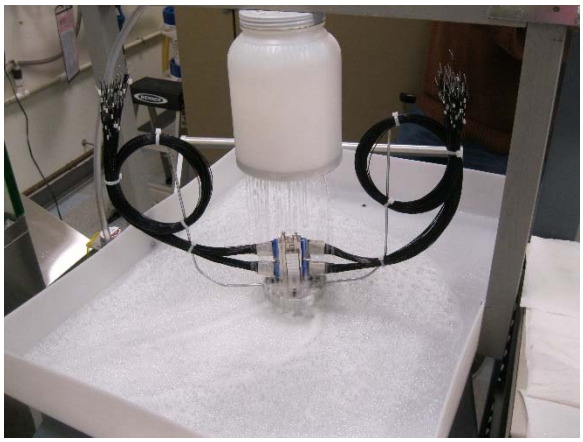
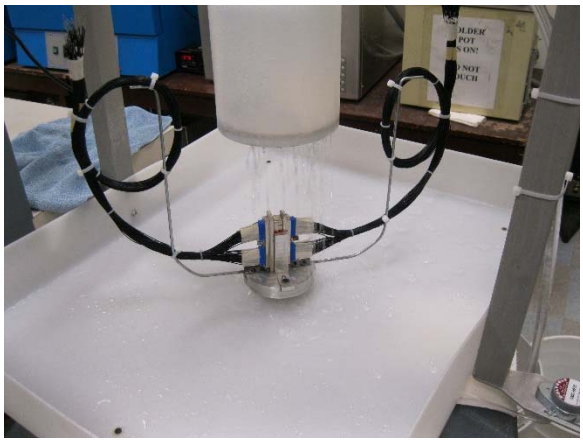
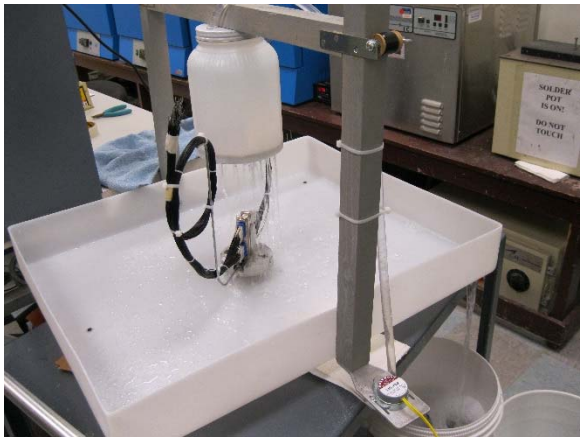
Description of Test: Seal Leakage ("Shower" Test)
Test Date: 1/11/17 – 1/16/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: Arinc Specification 600, Para.19.4.22 & 19.5.19
Equipment: Cinch Seal Leakage Test Fixture

Test Results: This test was performed as specified. See photos below.

Typical Test Sample under Test Fluid



Typical Test Setup for Seal Leakage

Description of Test: Insulation Resistance (IR), Post Seal Leakage (Mated)
Test Date: 1/9/17 – 1/16/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: Arinc Specification 600, Para.19.4.6 & 19.5.3
Equipment: M7650-1, M00597, M00595, M00598, M00599, M00600, M00596 and M00601

Test Results: This test was performed as specified.
*See next following pages for the Initial Insulation Resistance test results recorded and below for typical IR test setup.

Automated IR Test System

Typical IR test setup; Mated connector

Insulation Resistance, Post Seal Leakage Test Results

SAMPLE 22A1S & 22A1P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Insulation Resistance, Post Seal Leakage Test Results (Con't)

SAMPLE 22A2S & 22A2P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Insulation Resistance, Post Seal Leakage Test Results (Con't)

SAMPLE 26B1S & 26B1P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Insulation Resistance, Post Seal Leakage Test Results (Con't)

SAMPLE 26B2S & 26B2P (Mated)

Positions Tested	Voltage Input Requirement (VDC)	Requirement (MΩ)	Actual Resistance Reading (MΩ)	Disposition Pass/Fail
1 to All	500	>100	>50,000	Pass
2 to All	500	>100	>50,000	Pass
3 to All	500	>100	>50,000	Pass
4 to All	500	>100	>50,000	Pass
5 to All	500	>100	>50,000	Pass
6 to All	500	>100	>50,000	Pass
7 to All	500	>100	>50,000	Pass
8 to All	500	>100	>50,000	Pass
9 to All	500	>100	>50,000	Pass
10 to All	500	>100	>50,000	Pass
11 to All	500	>100	>50,000	Pass
12 to All	500	>100	>50,000	Pass
13 to All	500	>100	>50,000	Pass
14 to All	500	>100	>50,000	Pass
15 to All	500	>100	>50,000	Pass
16 to All	500	>100	>50,000	Pass
17 to All	500	>100	>50,000	Pass
18 to All	500	>100	>50,000	Pass
19 to All	500	>100	>50,000	Pass
20 to All	500	>100	>50,000	Pass
21 to All	500	>100	>50,000	Pass
22 to All	500	>100	>50,000	Pass
23 to All	500	>100	>50,000	Pass
24 to All	500	>100	>50,000	Pass
25 to All	500	>100	>50,000	Pass
26 to All	500	>100	>50,000	Pass
27 to All	500	>100	>50,000	Pass
28 to All	500	>100	>50,000	Pass
29 to All	500	>100	>50,000	Pass
30 to All	500	>100	>50,000	Pass
31 to All	500	>100	>50,000	Pass
32 to All	500	>100	>50,000	Pass
33 to All	500	>100	>50,000	Pass
34 to All	500	>100	>50,000	Pass
35 to All	500	>100	>50,000	Pass
36 to All	500	>100	>50,000	Pass
37 to All	500	>100	>50,000	Pass
38 to All	500	>100	>50,000	Pass
39 to All	500	>100	>50,000	Pass
40 to All	500	>100	>50,000	Pass

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Description of Test: Dielectric Withstanding Voltage – Post Seal Leakage (Mated)
Test Date: 1/9/17 – 1/16/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: Arinc Specification 600, Para.19.4.8 & 19.5.5
Equipment: M7650-1, M00597, M00595, M00598, M00599, M00600, M00596 and M00601

Test Results: This test was performed as specified.
*See next following pages for the Post Seal Leakage, Dielectric Withstanding Voltage test results recorded and below for typical DWV test setup.

Automated IR Test System

Typical IR test setup; Mated connector

Post Seal Leakage, Dielectric Withstanding Voltage Test Results

SAMPLE 22A1S & 22A1P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.139	Pass
2 to All	1500	<1.0	0.145	Pass
3 to All	1500	<1.0	0.144	Pass
4 to All	1500	<1.0	0.148	Pass
5 to All	1500	<1.0	0.141	Pass
6 to All	1500	<1.0	0.138	Pass
7 to All	1500	<1.0	0.143	Pass
8 to All	1500	<1.0	0.143	Pass
9 to All	1500	<1.0	0.140	Pass
10 to All	1500	<1.0	0.139	Pass
11 to All	1500	<1.0	0.142	Pass
12 to All	1500	<1.0	0.141	Pass
13 to All	1500	<1.0	0.141	Pass
14 to All	1500	<1.0	0.146	Pass
15 to All	1500	<1.0	0.146	Pass
16 to All	1500	<1.0	0.144	Pass
17 to All	1500	<1.0	0.142	Pass
18 to All	1500	<1.0	0.147	Pass
19 to All	1500	<1.0	0.145	Pass
20 to All	1500	<1.0	0.141	Pass
21 to All	1500	<1.0	0.144	Pass
22 to All	1500	<1.0	0.143	Pass
23 to All	1500	<1.0	0.144	Pass
24 to All	1500	<1.0	0.139	Pass
25 to All	1500	<1.0	0.151	Pass
26 to All	1500	<1.0	0.149	Pass
27 to All	1500	<1.0	0.150	Pass
28 to All	1500	<1.0	0.146	Pass
29 to All	1500	<1.0	0.145	Pass
30 to All	1500	<1.0	0.145	Pass
31 to All	1500	<1.0	0.150	Pass
32 to All	1500	<1.0	0.144	Pass
33 to All	1500	<1.0	0.134	Pass
34 to All	1500	<1.0	0.141	Pass
35 to All	1500	<1.0	0.142	Pass
36 to All	1500	<1.0	0.141	Pass
37 to All	1500	<1.0	0.148	Pass
38 to All	1500	<1.0	0.139	Pass
39 to All	1500	<1.0	0.143	Pass
40 to All	1500	<1.0	0.144	Pass

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Post Seal Leakage, Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 22A2S & 22A2P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.148	Pass
2 to All	1500	<1.0	0.155	Pass
3 to All	1500	<1.0	0.154	Pass
4 to All	1500	<1.0	0.150	Pass
5 to All	1500	<1.0	0.143	Pass
6 to All	1500	<1.0	0.144	Pass
7 to All	1500	<1.0	0.150	Pass
8 to All	1500	<1.0	0.150	Pass
9 to All	1500	<1.0	0.143	Pass
10 to All	1500	<1.0	0.146	Pass
11 to All	1500	<1.0	0.142	Pass
12 to All	1500	<1.0	0.143	Pass
13 to All	1500	<1.0	0.146	Pass
14 to All	1500	<1.0	0.146	Pass
15 to All	1500	<1.0	0.151	Pass
16 to All	1500	<1.0	0.144	Pass
17 to All	1500	<1.0	0.145	Pass
18 to All	1500	<1.0	0.152	Pass
19 to All	1500	<1.0	0.147	Pass
20 to All	1500	<1.0	0.148	Pass
21 to All	1500	<1.0	0.149	Pass
22 to All	1500	<1.0	0.150	Pass
23 to All	1500	<1.0	0.146	Pass
24 to All	1500	<1.0	0.148	Pass
25 to All	1500	<1.0	0.152	Pass
26 to All	1500	<1.0	0.152	Pass
27 to All	1500	<1.0	0.149	Pass
28 to All	1500	<1.0	0.152	Pass
29 to All	1500	<1.0	0.148	Pass
30 to All	1500	<1.0	0.150	Pass
31 to All	1500	<1.0	0.147	Pass
32 to All	1500	<1.0	0.149	Pass
33 to All	1500	<1.0	0.133	Pass
34 to All	1500	<1.0	0.142	Pass
35 to All	1500	<1.0	0.143	Pass
36 to All	1500	<1.0	0.147	Pass
37 to All	1500	<1.0	0.148	Pass
38 to All	1500	<1.0	0.143	Pass
39 to All	1500	<1.0	0.142	Pass
40 to All	1500	<1.0	0.143	Pass

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Post Seal Leakage, Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B1S & 26B1P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.135	Pass
2 to All	1500	<1.0	0.142	Pass
3 to All	1500	<1.0	0.147	Pass
4 to All	1500	<1.0	0.149	Pass
5 to All	1500	<1.0	0.141	Pass
6 to All	1500	<1.0	0.147	Pass
7 to All	1500	<1.0	0.148	Pass
8 to All	1500	<1.0	0.151	Pass
9 to All	1500	<1.0	0.140	Pass
10 to All	1500	<1.0	0.144	Pass
11 to All	1500	<1.0	0.148	Pass
12 to All	1500	<1.0	0.146	Pass
13 to All	1500	<1.0	0.147	Pass
14 to All	1500	<1.0	0.150	Pass
15 to All	1500	<1.0	0.152	Pass
16 to All	1500	<1.0	0.146	Pass
17 to All	1500	<1.0	0.142	Pass
18 to All	1500	<1.0	0.152	Pass
19 to All	1500	<1.0	0.147	Pass
20 to All	1500	<1.0	0.149	Pass
21 to All	1500	<1.0	0.147	Pass
22 to All	1500	<1.0	0.150	Pass
23 to All	1500	<1.0	0.148	Pass
24 to All	1500	<1.0	0.142	Pass
25 to All	1500	<1.0	0.149	Pass
26 to All	1500	<1.0	0.155	Pass
27 to All	1500	<1.0	0.149	Pass
28 to All	1500	<1.0	0.150	Pass
29 to All	1500	<1.0	0.152	Pass
30 to All	1500	<1.0	0.150	Pass
31 to All	1500	<1.0	0.149	Pass
32 to All	1500	<1.0	0.147	Pass
33 to All	1500	<1.0	0.136	Pass
34 to All	1500	<1.0	0.141	Pass
35 to All	1500	<1.0	0.142	Pass
36 to All	1500	<1.0	0.144	Pass
37 to All	1500	<1.0	0.147	Pass
38 to All	1500	<1.0	0.146	Pass
39 to All	1500	<1.0	0.147	Pass
40 to All	1500	<1.0	0.141	Pass

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Post Seal Leakage, Dielectric Withstanding Voltage Test Results (Con't)

SAMPLE 26B2S & 26B2P (Mated)

Positions Tested	Voltage Input Requirement (AC)	Requirement (mA)	Actual Leakage Current (mA)	Disposition Pass/Fail
1 to All	1500	<1.0	0.139	Pass
2 to All	1500	<1.0	0.143	Pass
3 to All	1500	<1.0	0.144	Pass
4 to All	1500	<1.0	0.145	Pass
5 to All	1500	<1.0	0.143	Pass
6 to All	1500	<1.0	0.143	Pass
7 to All	1500	<1.0	0.143	Pass
8 to All	1500	<1.0	0.142	Pass
9 to All	1500	<1.0	0.135	Pass
10 to All	1500	<1.0	0.142	Pass
11 to All	1500	<1.0	0.142	Pass
12 to All	1500	<1.0	0.136	Pass
13 to All	1500	<1.0	0.140	Pass
14 to All	1500	<1.0	0.140	Pass
15 to All	1500	<1.0	0.145	Pass
16 to All	1500	<1.0	0.141	Pass
17 to All	1500	<1.0	0.141	Pass
18 to All	1500	<1.0	0.149	Pass
19 to All	1500	<1.0	0.144	Pass
20 to All	1500	<1.0	0.143	Pass
21 to All	1500	<1.0	0.141	Pass
22 to All	1500	<1.0	0.141	Pass
23 to All	1500	<1.0	0.139	Pass
24 to All	1500	<1.0	0.139	Pass
25 to All	1500	<1.0	0.147	Pass
26 to All	1500	<1.0	0.145	Pass
27 to All	1500	<1.0	0.143	Pass
28 to All	1500	<1.0	0.149	Pass
29 to All	1500	<1.0	0.143	Pass
30 to All	1500	<1.0	0.141	Pass
31 to All	1500	<1.0	0.139	Pass
32 to All	1500	<1.0	0.142	Pass
33 to All	1500	<1.0	0.135	Pass
34 to All	1500	<1.0	0.139	Pass
35 to All	1500	<1.0	0.138	Pass
36 to All	1500	<1.0	0.144	Pass
37 to All	1500	<1.0	0.145	Pass
38 to All	1500	<1.0	0.135	Pass
39 to All	1500	<1.0	0.141	Pass
40 to All	1500	<1.0	0.136	Pass

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Description of Test: Visual Inspection (Final/Post Test)
Test Date: 1/18/17
Tested By: JY
S/N of Test Specimens: 22A1S/22A1P, 22A2S/22A2P, 26B1S/26B1P & 26B2S/26B2P
Specification: EIA-364-18
Equipment: Bench Microscope

Test Results: All modular rectangular connectors were inspected under 10x magnification. There was also no evidence of any damage(s) that could affect the connector's form, fit & functionality.

Engineering Test Laboratory Equipment List

ID #	Description	Manufacturer	Model #	Serial #	Last Cal	Next Cal
M7650-1	AUTOMATED IR / DWV TEST SYSTEM	CINCH	100 CHANNEL	N/A	6/29/16	6/29/17
M00597 M00595 M00598 M00599 M00600 M00601 M00596	DIELECTRIC ANALYZER / MATRIX SCANNERS	ASSOCIATED RESEARCH	7650 HYPOT ULTRA III	9370602	6/29/16	6/29/17
N/A	Seal Leakage Test System	CINCH	N/A	N/A	N/A	N/A
N/A	BENCH MICROSCOPE	Microscopes Inc.	N/A	N/A	N/A	N/A

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