

Qualification Test Report Summary of the Electrical, Mechanical and Environmental Tests Performed on the MD801 Series Receptacle and Plug Connectors

Written by: Jan Marchel

Reviewed by: Ted Rachwalski

Date: 06/11/15 Revision: C



MD801 SERIES QUALIFICATION TEST SUMMARY Engineering Test Report No. 141101

Pg: 2 of 16

REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

Revision History

Date	Revision	Description	Revised By
11/21/14	A	Initial Release	N/A
06/12/15	В	Updated Part Numbers and added Test Data for Plug	J. Marchel
12/11/15	С	Updated part numbers, and header	A. Thelin

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.



Engineering Test Report No.

141101

Pg: 3 of **16**

REVIEWED BY:

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T. Rachwalski

Date 11/21/14

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

Scope:

The purpose for this testing is to verify the performance of the MD801 Series Receptacle Connectors with PC Tail contacts and MD801 Series Plug Connectors with Banding Platform. Test was performed using Cinch Connectors and Glenair Connectors to verify intermateability and ability to meet the qualification performance tests.

Manufacturer: Cinch Connectivity Solutions.

Introduction:

This document presents the results of a series of electrical, mechanical and environmental tests that were performed on (52) fifty-two MD801 Series Connectors (herein and after referred to as the Device Under Test (DUT). The DUTs were identified as follows (Cinch connector samples identified in bold print):

Group 1	
Group 1A FEMALE - 10 SOCKETS, MD801-011-07MT7-10SA	
Group 1A MALE - 10 PINS, 801-007-16MT7-10PA	
Group 1B FEMALE - 10 SOCKETS, MD801-011-07MT7-10SA	
Group 1B MALE - 10 PINS, 801-007-16MT7-10PA	
Group 1C MALE - 7 SOCKETS, 801-007-16MT6-7SA	
Group 1C FEMALE - 7 PINS, MD801-011-07MT6-7PA	
Group 1D MALE - 7 SOCKETS, 801-007-16MT6-7SA	
Group 1D FEMALE - 7 PIN. MD801-011-07MT6-7PA	

Group	2

Group 2A MALE - 19 PINS, 801-007-16MT9-19PA

Group 2A FEMALE - 19 SOCKETS, MD801-011-07MT9-19SA



MD801 SERIES QUALIFICATION

TEST SUMMARY

Engineering Test Report No.

141101

Pg: 4 of 16

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

Date 11/21/14

Group 2B MALE - 19 PINS, 801-007-16MT9-19PA
Group 2B FEMALE - 19 SOCKETS, MD801-011-07MT9-19SA
Group 2C MALE - 19 SOCKETS, 801-007-16MT9-19SA
Group 2C FEMALE - 19 PINS, MD801-011-07MT9-19PA
Group 2D MALE - 19 SOCKETS, 801-007-16MT9-19SA
Group 2D FEMALE - 19 PINS, MD801-011-07MT9-19PA
Group 2E MALE - 26 PINS, 801-007-16MT10-26PA
Group 2E FEMALE - 26 SOCKETS, MD801-011-07MT10-26SA
Group 2F MALE - 26 PINS, 801-007-16MT10-26PA
Group 2F FEMALE - 26 SOCKETS, MD801-011-07MT10-26SA
Group 3
Group 3A MALE - 10 SOCKETS, 801-007-16MT7-10SA
Group 3A FEMALE - 10 PINS, MD801-011-07MT7-10PA
Group 3B FEMALE - 13 SOCKETS, MD801-011-07MT8-13SA
Group 3B MALE - 13 PINS, 801-007-16MT8-13PA
Group 3C MALE - 10 SOCKETS, 801-007-16MT7-10SA
Group 3C FEMALE - 10 PINS, MD801-011-07MT7-10PA
Group 3D FEMALE - 13 SOCKETS, MD801-011-07MT8-13SA
Group 3D MALE - 13 PINS, 801-007-16MT8-13PA
Group 4
Group 4A FEMALE - 13 SOCKETS, MD801-011-07MT8-13SA
Group 4A MALE - 13 PINS, 801-007-16MT8-13PA
Group 4B MALE - 13 SOCKETS, 801-007-16MT8-13SA
Group 4B FEMALE - 13 PINS, S/N: ACC MD801-011-07MT8-13PA
Group 4C FEMALE - 13 SOCKETS, MD801-011-07MT8-13SA
Group 4C MALE - 13 PINS, 801-007-16MT8-13PA
Group 4D FEMALE - 10 SOCKETS, MD801-011-07MT7-10SA
Group 4D MALE - 10 PINS, 801-007-16MT7-10PA
Group 4E FEMALE - 10 SOCKETS, MD801-011-07MT7-10SA
Group 4E MALE - 10 PINS, 801-007-16MT7-10PA
Group 4F MALE - 13 SOCKETS, 801-007-16MT8-13SA
Group 4F FEMALE - 13 PINS, MD801-011-07MT8-13PA

Gr	ou	p 5

Group 5A FEMALE - 19 PINS, MD801-011-07MT9-19PA

Group 5A MALE - 19 SOCKETS, MD801-007-16MT9-19SA

Group 5B FEMALE - 19 SOCKETS, MD801-011-07MT9-19SA



Engineering Test Report No.

Pg: 5 of 16

REVIEWED BY: J. Marchel APPROVED BY:

T. Rachwalski

141101

Date 11/21/14

Group 5B MALE - 19 PINS, MD801-007-16MT9-19PA
Group 5C FEMALE - 19 PINS, MD801-011-07MT9-19PA
Group 5C MALE - 19 SOCKETS, MD801-007-16MT9-19SA
Group 5D FEMALE - 19 SOCKETS, MD801-011-07MT9-19SA
Group 5D MALE - 19 PINS, MD801-007-16MT9-19PA
Group 5E FEMALE - 19 PINS, MD801-011-07MT9-19PA
Group 5E MALE - 19 SOCKETS, MD801-007-16MT9-19SA
Group 5F FEMALE - 19 SOCKETS, MD801-011-07MT9-19SA
Group 5F MALE - 19 PINS, MD801-007-16MT9-19PA

Test Result Summary:

The following tests were performed (sequence of tests for each group as shown) and their results are shown below:



Engineering Test Report No.

141101

Pg: 6 of **16**

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 1	Magnetic Permeability	2 u max. / EIA-364-54	Pass
Group 1	Temperature Cycling	No mechanical damage. Connector shall meet CR, DWV, IR and Shell to Shell Resistance Post Test Procedure - EIA-364-32, Method A Test Condition IV, -55 C - +125 C, 5 Cycles	No damage See results below
Group 1	Post Temperature - Contact Resistance	23 GA contacts 54 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 48.00 mV
Group 1	Post Temperature - Dielectric Withstanding Voltage	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 1	Post Temperature - Insulation Resistance	5000 Megaohms min. (500 VDC +/-50V) Procedure - EIA-364-21	Pass
Group 1	Post Temperature - Shell to Shell Conductivity	Voltage drop across a mated pair 20 mV max. Procedure - EIA-364-83	Pass, Average 0.85 mV
Group 1	Coupling Torque	Shell Size 6 & 7 – 8 in-lbs Shell Size 8 & 9 – 9 in-lbs Shell Size 10 – 12 in-lbs At a point when red line (fully mated indicator) is completely covered	Pass Size 6 & 7 - Average 5.45in-lbs
DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 1	Durability	500 mating / unmating cycles No deterioration which will	Pass No sign of wear



MD801 SERIES QUALIFICATION TEST SUMMARY Engineering Test Report No.

Pg: 7 of 16

REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

		adversely affect the connector.	See results below
		Connector shall meet CR, DWV,	See lesaits selow
		IR and Shell to Shell Resistance	
		& Coupling torque	
		Procedure - EIA-364-09	
		23 GA contacts	
	D (D 131)	54 mV drop at test current 3 A	
Group 1	Post Durability -	(24 AWG silver plated wire)	Pass, Average 48.00 mV
- · ···I	Contact Resistance	Ref. SAE AS39029	
		Procedure - EIA-364-06	
	D (D 131)	23 GA Contacts	
	Post Durability -	500VAC RMS	D
Group 1	Dielectric Withstanding	One (1) minute dwell	Pass
	Voltage	Procedure - EIA-364-20	
	D 4 D 1 : 1 : 4	5000 Megaohms min.	
Group 1	Post Durability -	(500 VDC +/-50V)	Pass
	Insulation Resistance	Procedure - EIA-364-21	
	Post Durability - Shell	Voltage drop across a mated pair	
Group 1	1	20 mV max.	Pass, Average 7.3 mV
	to Shell Conductivity	Procedure - EIA-364-83	
		Shell Size 6 & 7 – 8 in-lbs	
		Shell Size 8 & 9 – 9 in-lbs	_
	Post Durability -	Shell Size 10 – 12 in-lbs	Pass
Group 1	Coupling Torque	At a point when red line (fully	Size 6 & 7 - Average 4.50 in-lbs
		mated indicator) is completely	
		covered	
		No exposure of base metal.	
		Connector shall meet Shell to	
Group 1 Salt Spray (Shell Resistance and Coupling	Pass
	Salt Spray (corrosion)	torque	No signs of corrosion
	(voirosion)	Procedure - EIA-364-26	See results below
		500 Hour Exposure	200000000000000000000000000000000000000
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DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 1	Post Corrosion - Shell to Shell Conductivity	Voltage drop across a mated pair 20 mV max.	Pass, Average 0.4 mV



MD801 SERIES QUALIFICATION TEST SUMMARY Engineering Test Report No. 141101 Pg: 8 of 16 REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

		Procedure - EIA-364-83	
		Shell Size $6 & 7 - 8$ in-lbs	
		Shell Size $8 & 9 - 9$ in-lbs	
Group 1 Post Corrosion - Coupling Torque	Shell Size 10 – 12 in-lbs	Pass	
	At a point when red line (fully	Size 6 & 7 - Average 6.10 in-lbs	
	mated indicator) is completely		
		covered	

DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 2	Contact Retention	23 GA PC tail contacts 3 lbs Min.	Pass



J. Marchel

APPROVED BY:

Engineering Test Report No.

T. Rachwalski

141101

Pg: 9 of 16

	Insulation Resistance	5000 Megaohms min.	Pass
DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 2	Coupling Torque	Shell Size 6 & 7 – 8 in-lbs Shell Size 8 & 9 – 9 in-lbs Shell Size 10 – 12 in-lbs At a point when red line (fully mated indicator) is completely covered	Pass Size 9 - Average 5.65in-lbs Size 10 - Average 9.9in-lbs
Group 2	Post Temperature - Shell to Shell Conductivity	Voltage drop across a mated pair 20 mV max. Procedure - EIA-364-83	Pass, Average 5.16 mV
Group 2	Post Temperature - Insulation Resistance	5000 Megaohms min. (500 VDC +/-50V) Procedure - EIA-364-21	Pass
Group 2	Post Temperature - Dielectric Withstanding Voltage	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 2	Post Temperature - Contact Resistance	23 GA contacts 54 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 41.50 mV
Group 2	Temperature Cycling	No mechanical damage. Connector shall meet CR, DWV, IR and Shell to Shell Resistance Procedure - EIA-364-32 Method A Test Condition IV, -55 C - +125 C, 5 Cycles	No damage See results below
Group 2	Contact Resistance	23 GA contacts 45 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 39.78 mV
		Procedure - EIA-364-29	



Engineering Test Report No.

141101

Pg: 10 of **16**

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

		Procedure - EIA-364-21	
Group 2	Dielectric Withstanding Voltage at Sea Level	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 2	Vibration, Random	No discontinuity greater than 1 microsecond Procedure - EIA-364-28 Test Condition V, Letter G, Duration1-1/2 hours, 100 mA test current 50-2000 Hz, 23.92 g rms.	Pass
Group 2	Shock	No discontinuity greater than 1 microsecond Procedure - EIA-364-27 Test Condition D, 3 shocks x 3 axes x 2 dir. Half sine, 300g duration 3 ms	Pass
Group 2	Shell to Shell Conductivity	Voltage drop across a mated pair 20 mV max. Procedure - EIA-364-83	Pass, Average 5.00 mV
Group 2	Contact Resistance (After Conditioning)	23 GA contacts 54 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 42.00 mV
Group 2	Humidity	No deterioration IR 100 Megohms min. during final cycle. Connector shall meet CR, DWV, shell to shell resistance Procedure - EIA-364-31 Condition B Method III, 80-98% RH 10 cycles +25 C to +65 C, Step 7b deleted, 24 hour recovery period	Pass See results below

DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements &	Results / Comments
		Referenced Test Procedure	



MD801 SERIES QUALIFICATION TEST SUMMARY Engineering Test Report No. 141101 Pg: 11 of 16 REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

Group 2	Post Humidity - Contact Resistance	23 GA contacts 54 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 42.50 mV
Group 2	Post Humidity - Dielectric Withstanding Voltage	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 2	Post Humidity - Insulation Resistance	5000 Megaohms min. (500 VDC +/-50V) Procedure - EIA-364-21	Pass
Group 2	Post Humidity - Shell to Shell Conductivity	Voltage drop across a mated pair 20 mV max. Procedure - EIA-364-83	Pass, Average 19.30 mV
Group 2	Contact Retention	23 GA PC tail contacts 3 lbs Min. Procedure - EIA-364-29	Pass

DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
Group 3	Insulation Resistance	5000 Megaohms min.	Pass



Engineering Test Report No.

141101

Pg: 12 of 16

REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

		(500 VDC +/-50V)	
		Procedure - EIA-364-21	
		23 GA Contacts	
G 0	Dielectric Withstanding	500VAC RMS	
Group 3	Voltage	One (1) minute dwell	Pass
		Procedure - EIA-364-20	
		23 GA contacts	
		45 mV drop at test current 3 A	
Group 3	Contact Resistance	(24 AWG silver plated wire)	Pass, Average 39.51 mV
		Ref. SAE AS39029	
		Procedure - EIA-364-06	
		Shell Size $6 & 7 - 8$ in-lbs	
		Shell Size $8 \& 9 - 9$ in-lbs	Pass
Group 3	Coupling Torque	Shell Size $10 - 12$ in-lbs	Size 7 - Average 5.45in-lbs Size 8 - Average 6.40in-lbs
		At a point when red line (fully mated	
		indicator) is completely covered	
		No visible damage that would affect	
		form, fit and function.	Pass Form, fit and function not affected
		Connector shall meet DWV, coupling	
Group 3	Fluid Immersion	torque post fluid immersion	
		Procedure - EIA-364-10	See results below
		Unmated connectors	See Tesuits below
		Fluids – A, E, G, I.	
		Shell Size $6 & 7 - 8$ in-lbs	
	Post Elvids Countins	Shell Size $8 \& 9 - 9$ in-lbs	Pass
Group 3	Post Fluids - Coupling	Shell Size $10 - 12$ in-lbs	Size 7 - Average 5.75in-lbs
	Torque	At a point when red line (fully mated	Size 8 - Average 11.1in-lbs
		indicator) is completely covered	
		23 GA Contacts	
Crown 2	Post Fluids - Dielectric	500VAC RMS	Dogo
Group 3	Withstanding Voltage	One (1) minute dwell	Pass
		Procedure - EIA-364-20	

DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements & Referenced Test Procedure	Results / Comments
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Engineering Test Report No.

141101

Pg: 13 of **16**

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

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Group 4	Contact Resistance	23 GA contacts 73 mV drop at test current 5 A (24 AWG silver plated wire) Ref. SAE AS39029	Pass, Average 67.51 mV
		Procedure - EIA-364-06	
	Contrat Contact	23 GA – 8 oz max	
Group 4	Socket Contact	(.0275 Diameter pin)	Pass
_	Engagement Force	Procedure - SAE AS39029	
	Socket Contact	23 GA – 0.5 oz min	
Group 4	Separation Force	(.0265 Diameter pin)	Pass
	Separation Porce	Procedure - SAE AS39029	
		5000 Megaohms min.	
Group 4	Insulation Resistance	(500 VDC +/-50V)	Pass
		Procedure - EIA-364-21	
		No evidence of water penetration	
		IR - 100 megohmsMegaohms	Pass
Group 4	Water Immersion	min	No water intrusion
Group 4		Procedure - MIL-STD 810	Pass
		method 512.4	Post Insulation Resistance
		1 meter immersion for 1 hour	
	Post Immersion -	100 Megaohms min.	5
Group 4	Insulation Resistance	(500 VDC +/-50V)	Pass
		Procedure - EIA-364-21	
		23 GA contacts	
C 4	Post Immersion -	54 mV drop at test current 3 A	D A 40.51 V
Group 4	Contact Resistance	(24 AWG silver plated wire)	Pass, Average 40.51 mV
		Ref. SAE AS39029	
		Procedure - EIA-364-06	

DUT	Test	MD801 Series Complete Qualification Test Plan	Results / Comments
Group		Requirements &	



Engineering Test Report No.

141101

Pg: 14 of 16

REVIEWED BY: J. Marchel APPROVED BY: T. Rachwalski Date 11/21/14

		Referenced Test Procedure	
Group 5	Contact Retention	23 GA PC tail contacts – 3 lbs 23 GA Crimp contacts – 6 lbs Minimum Procedure - EIA-364-29	Pass
Group 5	Contact Resistance	23 GA contacts 45 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 40.81 mV
Group 5	Initial Insulation Resistance	5000 Megaohms min. (500 VDC +/-50V) Procedure - EIA-364-21	Pass
Group 5	Initial Dielectric Withstanding Voltage	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 5	Initial Shell to Shell Conductivity	Voltage drop across a mated pair 10 mV max. Procedure - EIA-364-83	Pass, Average 5.6 mV
Group 5	Temperature Cycling	No mechanical damage. Connector shall meet CR, DWV, IR and Shell to Shell Resistance Procedure - EIA-364-32, Method A, Test Condition IV, -65 C to +150 C, 5 Cycles	No damage See results below
Group 5	Post Temperature - Contact Resistance	23 GA contacts 54 mV drop at test current 3 A (24 AWG silver plated wire) Ref. SAE AS39029 Procedure - EIA-364-06	Pass, Average 43.97 mV
Group 5	Post Temperature - Dielectric Withstanding Voltage	23 GA Contacts 500VAC RMS One (1) minute dwell Procedure - EIA-364-20	Pass
Group 5	Post Temperature - Insulation Resistance	5000 Megaohms min. (500 VDC +/-50V) Procedure - EIA-364-21	Pass
DUT Group	Test	MD801 Series Complete Qualification Test Plan Requirements &	Results / Comments



Engineering Test Report No.

141101

Pg: 15 of **16**

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

		Referenced Test Procedure	
	Post Temperature -	Voltage drop across a mated pair	
Group 5	Shell to Shell	20 mV max.	Pass, Average 5.06 mV
	Conductivity	Procedure - EIA-364-83	
		No discontinuity greater than 1	
		microsecond	
		Procedure - EIA-364-28	
Group 5	Vibration, Random	Test Condition V, Letter G,	Pass
		Duration 1-1/2 hours,	
		100 mA test current	
		50-2000 Hz, 23.92 g rms.	
		No discontinuity greater than 1	
		microsecond	
Crown 5	Shock	Procedure - EIA-364-27	Daga
Group 5	Snock	Test Condition D, 3 shocks x 3	Pass
		axes x 2 dir.	
		Half sine, 300g duration 3 ms	
		23 GA contacts	
	Post Vibration/Shock -	54 mV drop at test current 3 A	
Group 5	Contact Resistance	(24 AWG silver plated wire)	Pass, Average 42.75 mV
		Ref. SAE AS39029	_
		Procedure - EIA-364-06	
	Post Vibration/Shock -	5000 Megaohms min.	
Group 5		(500 VDC +/-50V)	Pass
	Insulation Resistance	Procedure - EIA-364-21	
	D = -4 V.1 4: /C11-	23 GA Contacts	
Group 5	Post Vibration/Shock -	500VAC RMS	D
•	Dielectric Withstanding	One (1) minute dwell	Pass
	Voltage	Procedure - EIA-364-20	
	Post Vibration/Shock -	Voltage drop across a mated pair	
Group 5	Shell to Shell	20 mV max.	Pass, Average 4.57 mV
1	Conductivity	Procedure - EIA-364-83	

DUT	Test	MD801 Series Complete Qualification Test Plan	Results / Comments
Group		Requirements &	



Engineering Test Report No.

141101

Pg: 16 of 16

REVIEWED BY:

J. Marchel

APPROVED BY:

T. Rachwalski

		Referenced Test Procedure	
		No deterioration,	
		IR 100 Megohms min during	
		final cycle.	
		Connector shall meet CR, DWV,	
		shell to shell resistance	Pass
Group 5	Humidity	Procedure - EIA-364-31	See results below
		Condition B Method III,	See results below
		80-98% RH 10 cycles	
		+25 C to +65 C	
		Step 7b deleted,	
		24 hour recovery period	
		23 GA contacts	
	Post Humidity -Contact	54 mV drop at test current 3 A	
Group 5	Resistance	(24 AWG silver plated wire)	Pass, Average 42.90 mV
		Ref. SAE AS39029	
		Procedure - EIA-364-06	
	Post Humidity -	5000 Megaohms min.	
Group 5	Insulation Resistance	(500 VDC +/-50V)	Pass
	insulation Resistance	Procedure - EIA-364-21	
	Post Humidity -	23 GA Contacts	
Group 5	Dielectric Withstanding	500VAC RMS	Pass
	Voltage	One (1) minute dwell	1 455
	Voluge	Procedure - EIA-364-20	
	Post Humidity - Shell	Voltage drop across a mated pair	
Group 5	to Shell Conductivity	20 mV max.	Pass, Average 8.593.45 mV
		Procedure - EIA-364-83	