

PDR #: UAU-0711	DESIGN VERIFICATION PLAN AND REPORT		TEST LEVEL: PV Product Validation	DVP&R NUMBER: TS-34566-002	DEPARTMENT: Automotive
CUSTOMER: GM / Delphi			DVP&R REVISION: 4	REPORTING ENGINEER: Shrish Rajendranath	
COMPONENT/ASSEMBLY: MX123	CLASSIFICATION: Class III, Sealed	MOLEX PART NUMBER: See Unit (s) Under Test (UUT)	DVP&R DATE: 6/30/2012	RESPONSIBLE ENGINEER: Shrish Rajendranath	
MODEL YEAR: Standard Product	STANDARDS AND SPECIFICATIONS: GMW#3191, Aug. 22, 2000 & Dec 2007 GMW#3172, Dec 2001 & Dec 2005 SAE/USCAR-2 Rev. 3 and Rev. 5 SAE/USCAR-20, December 2001 SAE/USCAR-25, May 2003 E67 2006 High Density Connection System Specification Rev. B E38 2006 High Density Connection System Specification Rev. D	OBJECTIVE: Compiled MX123 product DVPR.	CUSTOMER APPROVAL: N/A	RELIABILITY ENGINEERING LAB MANAGER: Gary Muto	
			ENGINEERING MANAGER APPROVAL: Vijy Koshy		

General Notes : Unless otherwise specified

- SAE/USCAR-2, Section 5.1.6: (Visual Inspection Pre and Post Test):
 - PRIOR TO TESTING AND/OR CONDITIONING: Visually examine each test specimen, noting in detail any manufacturing or material defects such as cracks, tarnishing, flash, etc. When specified in the test request/order, take photographs and/or video recordings of representative samples to be tested and keep a properly labeled control sample.
 - AFTER TESTING AND/OR CONDITIONING: Re-examine each test sample and note in detail any observable changes, such as swelling, corrosion, discoloration, contact plating wear, physical distortions, cracks, etc. Compare the tested and/or conditioned samples to the control samples, the videos, and/or the photographs, recording any differences in the test report. The Authorized Person will need to provide an additional sample for this purpose.
 - ACCEPTANCE CRITERIA: All connector assemblies must not show, with the aid of 10X magnification, any evidence of deterioration, cracks, deformities, etc. that could affect their functionality or distort their appearance. Connector locking mechanisms must function without breakage. Seals must remain serviceable and the connector must be capable of being reassembled without rolling or tearing of the seal.
 - ACCEPTANCE CRITERIA: All terminals must not show, with the aid of 10X magnification, any evidence of deterioration, cracks, deformities, excessive plating wear, etc. that could affect their functionality.
- GMW#3191, Section 4.1: (Visual Criteria Pre and Post Test):
When inspected under 10X, in addition to being able to service the Unit Under Test (UUT), there shall be no evidence of the following that affect functionality of the UUT:
 - Breakage
 - Swelling or physical distortion or flash, exceeding print tolerances
 - Discoloration

TEST PLAN				TEST REPORT					TEST DATA		
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					

Mechanical Testing

Connector MECHANICAL, Terminal - Connector Engage/Extraction Force - GMW #3191 (Aug. 22, 2000) pages 19 and 20																																									
				20 Term 10 Term	MX123 56G w/ Flat Tub R05	18 TXL 22 TXL	0215	TR# 6184 TR# 6211	MET MET	All samples met the specified criteria.																															
Sec. 4.1	Pre-Test Visual Examination	See General Note 2																																							
Sec. 4.6	Terminal - Connector Insertion Force (Largest Conductor)	The maximum insertion force shall be 30 N.		1 Conn 10 Term	56G	18 TXL																																			
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Sec. 4.1	Post Test Visual Examination	See General Note 2																																							
Connector MECHANICAL, Terminal - Connector Engage/Extraction Force - GMW #3191 (Aug. 22, 2000) pages 19 and 20																																									
				54 / 14 20 / 8	73A / 80H 73A / 80H	See below	0343	TR# 7526 TR# 7624	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.																															
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Sec. 4.7	Terminal - Connector Extraction Force (Dry as Molded, TPA in Pre-Lock)	The minimum extraction force shall be 30 N (.64mm Terminal) The minimum extraction force shall be 60 N (2.8mm Terminal)		6 6 13	73A 80H 73A	18 TXL 18 TXL 14 TXL		TR# 6123 * *																																	
Sec. 4.7	Terminal - Connector Extraction Force (Dry as Molded, TPA in Final-Lock)	The minimum extraction force shall be 75 N (.64mm Terminal) The minimum extraction force shall be 90 N (2.8mm Terminal)		6 6 13	73A 80H 73A	18 TXL 18 TXL 14 TXL		TR# 6123 * *																																	
Sec. 4.7	Terminal - Connector Extraction Force (Moisture Conditioned, TPA in Final-Lock)	The minimum extraction force shall be 75 N (.64mm Terminal) The minimum extraction force shall be 90 N (2.8mm Terminal)		6 6 13	73A 80H 73A	18 TXL 18 TXL 14 TXL		TR# 6123 * *																																	
Sec. 4.1	Post Test Visual Examination	See General Note 2																																							
Connector MECHANICAL, Terminal - Connector Engage/Extraction Force - GMW #3191 (Aug. 22, 2000) pages 19 and 20																																									
				2	73A Opt0	See below	0393	TR# 7987	MET	* Term-Conn insertion data from fully populated connector method.																															

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Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.6		Terminal - Connector Insertion Force (Largest Conductor)	The maximum insertion force shall be 15 N for terminals with wire $\leq 1.00\text{mm}^2$ ($\approx 18\text{ga}$) and 30 N for terminals with wire $> 1.00\text{mm}^2$ ($\approx 18\text{ga}$)	1		18 TXL												
Sec. 4.6		Terminal - Connector Insertion Force (Smallest Conductor)	The maximum insertion force shall be 15 N for terminals with wire $\leq 1.00\text{mm}^2$ ($\approx 18\text{ga}$) and 30 N for terminals with wire $> 1.00\text{mm}^2$ ($\approx 18\text{ga}$)	1		22 TXL												
Sec. 4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Terminal - Connector Engage/Extraction Force - GMW #3191 (Aug. 22, 2000) pages 19 and 20				2	73A Opt9	See below	0393	TR# 7988	MET									* Term-Conn insertion data from fully populated connector method.
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.6		Terminal - Connector Insertion Force (Largest Conductor)	The maximum insertion force shall be 15 N for terminals with wire $\leq 1.00\text{mm}^2$ ($\approx 18\text{ga}$) and 30 N for terminals with wire $> 1.00\text{mm}^2$ ($\approx 18\text{ga}$)	1		18 TXL												
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Sec. 4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Terminal - Connector Engage/Extraction Force - GMW #3191 (Aug. 22, 2000) pages 19 and 20				25	66A	See below	1322	TR# 15382	MET									* Term-Conn insertion data from fully populated connector method.
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.6		Terminal - Connector Insertion Force (Largest Conductor)	The maximum insertion force shall be 15 N for terminals with wire $\leq 1.00\text{mm}^2$ ($\approx 18\text{ga}$) and 30 N for terminals with wire $> 1.00\text{mm}^2$ ($\approx 18\text{ga}$)	1	66A	18 TXL												
				5	66A	14 TXL					With 1.0mm ID hole Mat Seal							
Sec. 4.6		Terminal - Connector Insertion Force (Smallest Conductor)	The maximum insertion force shall be 15 N for terminals with wire $\leq 1.00\text{mm}^2$ ($\approx 18\text{ga}$) and 30 N for terminals with wire $> 1.00\text{mm}^2$ ($\approx 18\text{ga}$)	1	66A	22 TXL												
Sec. 4.7		Terminal - Connector Extraction Force (Dry as Molded, TPA in Pre-Lock)	The minimum extraction force shall be 30 N (.64mm Terminal) The minimum extraction force shall be 60 N (2.8mm Terminal)	1	66A	18 TXL												
				5	66A	14 TXL					With 1.0mm ID hole Mat Seal							
Sec. 4.7		Terminal - Connector Extraction Force (Dry as Molded, TPA in Final-Lock)	The minimum extraction force shall be 75 N (.64mm Terminal) The minimum extraction force shall be 90 N (2.8mm Terminal)	1	66A	18 TXL												
				5	66A	14 TXL					With 1.0mm ID hole Mat Seal							
Sec. 4.7		Terminal - Connector Extraction Force (Moisture Conditioned, TPA in Final-Lock)	The minimum extraction force shall be 75 N (.64mm Terminal) The minimum extraction force shall be 90 N (2.8mm Terminal)	1	66A	18 TXL												
				5	66A	14 TXL					With 1.0mm ID hole Mat Seal							
Sec. 4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Terminal - Connector Engagement Force - GMW3191 (Dec 2007) page 11				5 samples of 1.0mm ID MAT SEAL	73ckt key A opt. 0 Hrns conn assy	0.50mm ²	1467	TR #15849	MET									
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 4.7.4 Part A		Terminal - Connector Engagement Force with TPA in Pre-Lock (Largest Conductor)	The maximum Engagement force shall be 15 N for 0.5mm ² wire size, neither the conductor or terminal may buckle during the test	1 each														
§ 4.1.7		Post Test Visual Examination	See General Notes C & D															
Connector MECHANICAL, Terminal - Connector Engagement Force - GMW3191 (Dec 2007) page 11				5 samples of 0.75mm ID MAT SEAL	73ckt key A opt. 0 Hrns conn assy	0.50mm ²	1467	TR #15849	MET									
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 4.7.4 Part A		Terminal - Connector Engagement Force with TPA in Pre-Lock (Largest Conductor)	The maximum Engagement force shall be 15 N for 0.5mm ² wire size, neither the conductor or terminal may buckle during the test	1 each														

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				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)				
§ 4.1.7		Post Test Visual Examination	See General Notes C & D										Term Insertion Force TPA in Pre-Lock (CKT 72)	0.64mm	7.36	9.29	8.24	
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	18 TXL	0220	TR #7133	MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)										Conn-Conn Engage Force (Final Lock)	80H (80)	49	73	59	
Sec.4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10	56G 73A 80H	18 TXL	0247	TR# 6464	MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)										Conn-Conn Engage Force (Final Lock)	73A (73)	56.1	61.2	59.0	
Sec.4.1		Post Test Visual Examination	See General Note 2											80H (80)	62.6	65.7	64.1	
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	18 TXL	0290	TR #6698	MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)										Conn-Conn Engage Force (Final Lock)	80H (80)	43	55	48	
Sec.4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	18 TXL	0290	TR #6697	MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)										Conn-Conn Engage Force (Final Lock)	80H (80)	45	61	49	
Sec.4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				5	80H	18 TXL	0290	TR #6699	MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)										Conn-Conn Engage Force (Final Lock)	80H (80)	45	49	47	
Sec.4.1		Post Test Visual Examination	See General Note 2															
Connector MECHANICAL, Connector - Connector Engage Force (Final - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10 / 10 3 / 3	73A / 80H 73A / 80H	18 TXL	0343	TR# 7572 TR# 7625	MET MET									
Sec. 4.1		Pre-Test Visual Examination	See General Note 2															
Sec. 4.9		Connector - Connector Final-Lock Engage Force	Final Lock Engage force shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)	13	73A								Conn-Conn Engage Force (Final Lock)	73A	49.8	61.2	53.2	
Sec.4.1		Post Test Visual Examination	See General Note 2	13	80H									80H	54.4	61.8	57.7	
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Jan 2005) page 14				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9482	MET									
Sec. 4.15		Pre-Test Visual Examination	See General Notes A & D															
Sec. 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N										Conn-Conn Mate Force (Final-Lock)	80H	18 TXL Ag rcpt Ag pin	53.4	56.5	54.7
Sec.4.1.7		Post Test Visual Examination	See General Notes C & D															

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Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Jan 2005) page 14				10	80H (69 term)	18 TXL Ag rcpt Au pin	0545	TR# 9989	MET	Also GMW3191 (Dec 2007) compliant						
Sec. 4.15		Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N								Conn-Conn Mate Force (Final-Lock)	80H	18 TXL Ag rcpt Au pin	69.5	75.0	72.0
Sec.4.1.7		Post Test Visual Examination	See General Notes C & D													
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Jan 2005) page 14				10	80H	18 TXL Au rcpt Ag pin	0545	TR# 9482	MET	Also GMW3191 (Dec 2007) compliant						
Sec. 4.15		Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N								Conn-Conn Mate Force (Final-Lock)	80H	18 TXL Au rcpt	49.7	54.1	51.5
Sec.4.1.7		Post Test Visual Examination	See General Notes C & D													
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Jan 2005) page 14				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9482	MET	Control Group. Also GMW3191 (Dec 2007) compliant						
Sec. 4.15		Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N								Conn-Conn Mate Force (Final-Lock)	80H	18 TXL Au rcpt	53.3	56.8	55.5
Sec.4.1.7		Post Test Visual Examination	See General Notes C & D													
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Jan 2005) page 14				5	56G	18 TXL Ag rcpt Ag pin	0545	TR# 9666	MET	Also GMW3191 (Dec 2007) compliant						
Sec. 4.15		Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N								Conn-Conn Mate Force (Final-Lock)	56G	18 TXL Ag rcpt	56.1	68.3	62.6
Sec.4.1.7		Post Test Visual Examination	See General Notes C & D								73A	18 TXL Ag rcpt Au pin	52.2	56.8	54.5	
Connector MECHANICAL, Connector - Connector Engage Force (Pre - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10 / 10 3 / 3	73A / 80H 73A / 80H	18 TXL	0343	TR# 7556 TR# 7626	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.9		Connector - Connector Pre-Lock Engage Force	Pre-lock engage force shall be ≤ 75 N (Per Section 4.4 SAE/USCAR-25 May 2003 - Category 3 in Table 6.3: hand-plug connector characteristics)	13	73A						Conn-Conn Engage Force (Pre - Lock)	73A		36.5	53.4	43.2
Sec.4.1		Post Test Visual Examination	See General Note 2	13	80H							80H		40.0	57.8	48.0
Connector MECHANICAL, Connector - Connector Engage Force (Pre - Lock) - GMW #3191 (Aug. 22, 2000) page 23				10 / 10 3 / 3	73A / 80H 73A / 80H	18 TXL	0343	TR# 7529 TR# 7627	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.9		Connector - Connector Pre-Lock Engage Force	Pre-Lock Disengage / Retention force shall be ≥ 15 N and shall be ≤ 75 N	13	73A						Conn-Conn Disengage Force (Pre - Lock) MIN	73A		45.5	66.1	53.1
				13	80H							80H		42.7	61.6	55.2
				13	73A						Conn-Conn Disengage Force (Pre - Lock) MAX	73A		45.5	66.1	53.1
Sec.4.1		Post Test Visual Examination	See General Note 2	13	80H							80H		42.7	61.6	55.2
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Dec 2007) page 14				10	80H 73A 56G	18 TXL Ag rcpt Ag pin	0689	TR# 10962	MET	Also GMW3191 (Jan 2005) compliant						
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D													
§ 4.11		Connector - Connector Engagement Force	The maximum engagement force shall be 75N								Conn-Conn Mate Force (Final-Lock)	80H	18 TXL Ag-Ag	44.8	49.2	45.7
												73A	18 TXL Ag-Ag	41.2	43.4	42.3
§ 4.1.7		Post Test Visual Examination	See General Notes C & D									56G	18 TXL Ag-Ag	37.9	41.9	39.4
Connector MECHANICAL, Connector - Connector Engagement Force - GMW3191 (Dec 2007) page 14				10	73A	18 TXL	0690	TR# 10964	MET	Also GMW3191 (Jan 2005) and GMW3191 (8/22/00) compliant						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
											TYPE		MIN (N)	MAX (N)	AVG (N)	

TEST PLAN				TEST REPORT					TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)	
Sec. 4.9 Sec.4.1	Connector - Connector Final-Lock Engage Force Post Test Visual Examination	Final Lock Engage force shall be \leq 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. See General Note 2	10	73A						Conn-Conn Engage Force (Final Lock)	73A	34.6	37.6	36.6	
Connector MECHANICAL, Connector - Connector Disengage Force (Unlocked Connector) - GMW3191 (Jan 2005) page 18				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9722	MET	Also GMW3191 (Dec 2007) compliant					
Sec. 4.1.5	Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.14	Unlocked Connector Disengage Force (Connector Primary Lock Disengaged)	The maximum unlocked connector disengage force shall be < 100N							1 cycle requirement, 20 cycles for evaluation only. Force at 20th cycle met requirement.						
Sec.4.1.7	Post Test Visual Examination	See General Notes C & D								Unlocked Connector Disengage Force	80H	18 TXL Ag rcpt Ag pin	32.0	37.0	34.6
Connector MECHANICAL, Connector - Connector Disengage Force (Unlocked Connector) - GMW3191 (Jan 2005) page 18				10	80H	18 TXL Ag rcpt Au pin	0545	TR# 9722	MET	Also GMW3191 (Dec 2007) compliant					
Sec. 4.1.5	Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.14	Unlocked Connector Disengage Force (Connector Primary Lock Disengaged)	The maximum unlocked connector disengage force shall be < 100N							1 cycle requirement, 20 cycles for evaluation only. Force at 20th cycle met requirement.						
Sec.4.1.7	Post Test Visual Examination	See General Notes C & D								Unlocked Connector Disengage Force	80H	18 TXL Ag rcpt Au pin	26.7	28.8	27.5
Connector MECHANICAL, Connector - Connector Disengage Force (Unlocked Connector) - GMW3191 (Jan 2005) page 18				10	80H	18 TXL Ag rcpt Au pin	0545	TR# 9722	MET	Also GMW3191 (Dec 2007) compliant					
Sec. 4.1.5	Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.14	Unlocked Connector Disengage Force (Connector Primary Lock Disengaged)	The maximum unlocked connector disengage force shall be < 100N							1 cycle requirement, 20 cycles for evaluation only. Force at 20th cycle met requirement.						
Sec.4.1.7	Post Test Visual Examination	See General Notes C & D								Unlocked Connector Disengage Force	80H	18 TXL Au rcpt Ag pin	25.4	27.3	26.3
Connector MECHANICAL, Connector - Connector Disengage Force (Unlocked Connector) - GMW3191 (Jan 2005) page 18				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9722	MET	Control Group. Also GMW3191 (Dec 2007) compliant					
Sec. 4.1.5	Pre-Test Visual Examination	See General Notes A & D													
Sec. 4.14	Unlocked Connector Disengage Force (Connector Primary Lock Disengaged)	The maximum unlocked connector disengage force shall be < 100N							1 cycle requirement, 20 cycles for evaluation only. Force at 20th cycle met requirement.						
Sec.4.1.7	Post Test Visual Examination	See General Notes C & D								Unlocked Connector Disengage Force	80H	18 TXL Au rcpt Au pin	27.2	29.2	28.4
Connector MECHANICAL, Unlocked Connector Disengagement Force - GMW3191 (Dec 2007) page 18				10	80H	18 TXL Ag rcpt Ag pin	0689	TR# 10963	MET	Also GMW3191 (Jan 2005) compliant					
§ 4.1.5	Pre-Test Visual Examination	See General Notes A & D													
§ 4.14	Unlocked Connector Disengage Force (Connector Primary Lock Disengaged)	The maximum unlocked connector disengage force shall be < 100N							1 cycle requirement, 20 cycles for evaluation only						
§ 4.1.7	Post Test Visual Examination	See General Notes C & D								Unlocked Connector Disengage Force	80H	18 TXL Ag-Ag	24.7	27.5	26.1
Connector MECHANICAL, Unlocked Connector Disengagement Force - GMW3191 (Dec 2007) page 18				10	73A	18 TXL	0690	TR# 10965	MET	Also GMW3191 (Jan 2005) compliant					
Sec. 4.1	Pre-Test Visual Examination	See General Note 2													
Sec. 4.13	Unlocked Connector Disengage Force	Unlocked connector disengage force shall be \leq 75N (Per Section 4.1 SAE/USCAR-25 May 2003 - Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)	10	73A					1 cycle requirement, 20 cycles for evaluation only						
Sec.4.1	Post Test Visual Examination	See General Note 2								Unlocked Connector Disengage Force	73A		21.2	27.1	24.0
§ 4.1.7	Post Test Visual Examination	See General Notes C & D													
Connector MECHANICAL, Connector - Connector Disengage Force (Primary Lock w/ CPA Disengaged) - GMW #3191 (Aug. 22, 2000) page 26				10	80H	18 TXL	0220	TR #7134	MET						
Sec. 4.1	Pre-Test Visual Examination	See General Note 2													
Sec. 4.13	Primary Lock Disengage Force (w/ CPA disengaged)	Primary lock disengage force w/CPA disengaged shall be \leq 75N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 2 - 10mm x 20mm min. contact area - thumb or 2 or more finger press)							*Use samples from Line Item #CM1						
Sec.4.1	Post Test Visual Examination	See General Note 2								Primary Lock Disengage Force (CPA Disengaged)	80H (80)		22	51	35

TEST PLAN				TEST REPORT						TEST DATA					
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)	
Connector MECHANICAL, Connector - Connector Disengage Force (Primary Lock w/ CPA Disengaged) - GMW #3191 (Aug. 22, 2000) page 26				10	80H	18 TXL	0220	TR #7191	MET	EV - for internal evaluation only - Control Group					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.13		Primary Lock Disengage Force (w/ CPA disengaged)	Primary lock disengage force w/CPA disengaged shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 2 - 10mm x 20mm min. contact area - thumb or 2 or more finger press)								Primary Lock Disengage Force (CPA Disengaged)	80H (80)	31	47	36
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Connector - Connector Disengage Force (Primary Lock w/ CPA Disengaged) - GMW #3191 (Aug. 22, 2000) page 26				10	73A	18 TXL	0281	TR# 6605	MET						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.13		Primary Lock Disengage Force (w/ CPA disengaged)	Primary lock disengage force w/CPA disengaged shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 2 - 10mm x 20mm min. contact area - thumb or 2 or more finger press)								Primary Lock Disengage Force (CPA Disengaged)	73A	28.9	58.0	43.7
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Connector - Connector Disengage Force (Primary Lock w/ CPA Disengaged) - GMW #3191 (Aug. 22, 2000) page 26				5	73A	18 TXL	0345	TR# 7479	MET						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.13		Primary Lock Disengage Force (w/ CPA disengaged)	Primary lock disengage force w/CPA disengaged shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 2 - 10mm x 20mm min. contact area - thumb or 2 or more finger press)								Primary Lock Disengage Force (CPA Disengaged)	73A	28.9	58.0	43.7
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Connector - Connector Disengage Force (Locked Connector) - GMW #3191 (Aug. 22, 2000) page 25				10	73A	n/a	0281	TR# 6606	MET						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.12		Locked Connector Disengage Force (w/ CPA disengaged)	Locked connector disengage force with the CPA disengaged shall be ≥ 110N								Locked Connector Disengage Force (CPA disengaged)	73A	374	494	401
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Connector - Connector Disengage Force (Locked Connector) - GMW #3191 (Aug. 22, 2000) page 25				10	73A	n/a	0345	TR# 6606	MET						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.12		Locked Connector Disengage Force (w/ CPA disengaged)	Locked connector disengage force with the CPA disengaged shall be ≥ 110N	10	73A						Locked Connector Disengage Force (CPA disengaged)	73A	378	399	387
Sec.4.1		Post Test Visual Examination	See General Note 2	10	80H						80H	378	398	386	
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				See below	See below	18 TXL	0189	TR# 6114	MET						
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5	> = 20 mate/un-mates cycles	10	56G						* Use the same samples for the specified tests.				
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assy Housing												
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles	10	56G										
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .	10	73A										
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .	10	80H										
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				See below	See below	18 TXL	0220	TR #7177	MET						

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5	> = 20 mate/un-mates cycles	10	56G					* Use the same samples for the specified tests.	
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assy Housing								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles	10	56G						
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .	10	73A						
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .	10	80H						
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				10	56G	18 TXL	0247	TR# 6465	MET		
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5	> = 20 mate/un-mates cycles								
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assy Housing								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles								
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .								
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .								
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				10	56G	18 TXL	0427	TR# 8239	MET		
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 20 mate/un-mates cycles	10*	56G					* Use the same samples for the specified tests.	
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assy Housing								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles	10*	56G					Evaluation only	
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .								
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assy .								
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9723	MET		
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 20 mate/un-mates cycles	10	80H					Data from CM2a and CM3a	
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assv Housing								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles	10	80H					Use parts from CM2a	
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assv .								
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assv .								
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Harness Connector Mating Durability - E67 2006 High Density Connection System Specification Rev. B				10	80H	18 TXL Ag rcpt Ag pin	0689	TR# 11098	MET		
GMW#3191, Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5	> = 20 mate/un-mates cycles	10	80H					Data from CM2	
Sec 6.5		Visual Examination - Post 20 Mates	There shall be no greater than a 0.1 mm gap between the Header anti-rocking pads and the Harn Conn Assv Housing								
Sec 6.5		GM Powertrain Connector Reference Manual - Rev 5 Sec 4 & 5.	> = 100 mate/un-mates cycles	10	80H					Use parts from CM2	
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assv .								
Sec 6.5		Visual Examination - Post 100 Mates	There shall be no greater than a 2 mm gap between the Header anti-rocking pads and the Harn Conn Assv .								
GMW#3191, Sec. 4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	n/a	0220	TR #7136	MET		
Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec. 4.9		Inadvertant Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be ≥ 190 N min (GM Customer requirement per G. Fleck)								
Sec.4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	56G	18 TXL	0247	TR# 6469	MET		
				10	73A						
				10	80H						

	TYPE	MIN (N)	MAX (N)	AVG (N)
Inadvertant Lever Actuation Force	80H	253	261	257

TEST PLAN				TEST REPORT						TEST DATA																		
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.																	
				QTY	TYPE	GAUGE																						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
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Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	N/A	0286	TR #6679	MET																			
<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (N)</th> <th>MAX (N)</th> <th>AVG (N)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Inadvertent Lever Actuation Force</td> <td>56G</td> <td>319</td> <td>331</td> <td>323</td> </tr> <tr> <td>73A</td> <td>248</td> <td>257</td> <td>253</td> </tr> <tr> <td>80H</td> <td>226</td> <td>259</td> <td>249</td> </tr> </tbody> </table>												TYPE	MIN (N)	MAX (N)	AVG (N)	Inadvertent Lever Actuation Force	56G	319	331	323	73A	248	257	253	80H	226	259	249
	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	56G	319	331	323																								
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	80H	226	259	249																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
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Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	N/A	0286	TR #6680	MET																			
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	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	80H (80)	209	218	214																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
Sec. 4.9		Inadvertent Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be \geq 190 N min (GM Customer requirement per G. Fleck)																									
Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	N/A	0290	TR #6696	MET																			
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	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	80H (80)	213	223	219																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
Sec. 4.9		Inadvertent Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be \geq 190 N min (GM Customer requirement per G. Fleck)																									
Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	80H	N/A	0290	TR #6693	MET																			
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	TYPE	MIN (N)	MAX (N)	AVG (N)																								
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Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
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Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				5	80H	N/A	0290	TR #6649	MET																			
<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (N)</th> <th>MAX (N)</th> <th>AVG (N)</th> </tr> </thead> <tbody> <tr> <td rowspan="1">Inadvertent Lever Actuation Force</td> <td>80H (80)</td> <td>242</td> <td>245</td> <td>243</td> </tr> </tbody> </table>												TYPE	MIN (N)	MAX (N)	AVG (N)	Inadvertent Lever Actuation Force	80H (80)	242	245	243								
	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	80H (80)	242	245	243																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
Sec. 4.9		Inadvertent Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be \geq 190 N min (GM Customer requirement per G. Fleck)	10 / 10 3 / 3	73A / 80H 73A / 80H	n/a	0343	TR# 7531 TR# 7629	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.																		
Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				13	73A																							
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	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	73A	219	243	231																								
	80H	213	242	232																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
Sec. 4.9		Inadvertent Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be \geq 190 N min (GM Customer requirement per G. Fleck)	10	56G					TEST GROUP																		
Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	56G	N/A	0427	TR# 8238	MET																			
<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (N)</th> <th>MAX (N)</th> <th>AVG (N)</th> </tr> </thead> <tbody> <tr> <td rowspan="1">Inadvertent Lever Actuation Force</td> <td>56G</td> <td>242</td> <td>274</td> <td>262</td> </tr> </tbody> </table>												TYPE	MIN (N)	MAX (N)	AVG (N)	Inadvertent Lever Actuation Force	56G	242	274	262								
	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	56G	242	274	262																								
Sec. 4.1		Pre-Test Visual Examination	See General Note 2																									
Sec. 4.9		Inadvertent Lever Actuation Force	The force to engage the lever from shipping position to lock position on an unmated connector shall be \geq 190 N min (GM Customer requirement per G. Fleck)	10	56G					CONTROL GROUP																		
Sec.4.1		Post Test Visual Examination	See General Note 2																									
Connector MECHANICAL, Connector - Connector Engage Force (Inadvertant Lever Actuation) - GMW #3191 (Aug. 22, 2000) page 23				10	56G	N/A	0427	TR# 8237	MET																			
<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (N)</th> <th>MAX (N)</th> <th>AVG (N)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Inadvertent Lever Actuation Force</td> <td>56G (Batch 1)</td> <td>237</td> <td>261</td> <td>247</td> </tr> <tr> <td>56G (Batch 2)</td> <td>216</td> <td>238</td> <td>227</td> </tr> </tbody> </table>												TYPE	MIN (N)	MAX (N)	AVG (N)	Inadvertent Lever Actuation Force	56G (Batch 1)	237	261	247	56G (Batch 2)	216	238	227				
	TYPE	MIN (N)	MAX (N)	AVG (N)																								
Inadvertent Lever Actuation Force	56G (Batch 1)	237	261	247																								
	56G (Batch 2)	216	238	227																								
Connector MECHANICAL, Connector Polarization (Coding) Feature Effectiveness - GMW #3191 (Aug. 22, 2000) page 27				See below	See below	n/a	0227	TR #7809	MET	MX123 80CKt Key G (Housing Tool# L3456702 and TPA Tool# L3456801)																		

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec. 4.14		Polarization Feature Effectiveness	Terminals must not make contact & lever should not release when subjected to 220N when connectors are subjected to a 220N axial (along the length of terminals) load.	1	73A					73A Conn to 80G Header, Proper Orientation	
				1	73A					73A Conn to 80G Header, 180° Misoriented	
				1	73B					73B Conn to 80G Header, Proper Orientation	
				1	73B					73B Conn to 80G Header, 180° Misoriented	
				1	80G					80G Conn to 80G Header, 180° Misoriented	
				1	80G					80G Conn to 73A Header, Proper Orientation	
				1	80G					80G Conn to 73A Header, 180° Misoriented	
				1	80G					80G Conn to 73B Header, Proper Orientation	
				1	80G					80G Conn to 73B Header, 180° Misoriented	
				1	80G					80G Conn to 80H Header, Proper Orientation	
				1	80G					80G Conn to 80H Header, 180° Misoriented	
				1	80H					80H Conn to 80G Header, Proper Orientation	
				1	80H					80H Conn to 80G Header, 180° Misoriented	
Sec.4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Connector Polarization (Coding) Feature Effectiveness - GMW #3191 (Aug. 22, 2000) page 27				2	73A						
				2	73B	n/a	0227	TR #7809	MET	MX123 73CKt Key C	
				9	73C					(Housing Tool# L3456702 and TPA Tool# L3456801)	
				2	80G						
				2	80H						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec. 4.14		Polarization Feature Effectiveness	Terminals must not make contact & lever should not release when subjected to 220N when connectors are subjected to a 220N axial (along the length of terminals) load.	1	73A					73A Conn to 73C Header, Proper Orientation	
				1	73A					73A Conn to 73C Header, 180° Misoriented	
				1	73B					73B Conn to 73C Header, Proper Orientation	
				1	73B					73B Conn to 73C Header, 180° Misoriented	
				1	73C					73C Conn to 73C Header, 180° Misoriented	
				1	73C					73C Conn to 73A Header, Proper Orientation	
				1	73C					73C Conn to 73A Header, 180° Misoriented	
				1	73C					73C Conn to 73B Header, Proper Orientation	
				1	73C					73C Conn to 73B Header, 180° Misoriented	
				1	73C					73C Conn to 80G Header, Proper Orientation	
				1	73C					73C Conn to 80G Header, 180° Misoriented	
				1	73C					73C Conn to 80H Header, Proper Orientation	
				1	73C					73C Conn to 80H Header, 180° Misoriented	
				1	80G					80G Conn to 73C Header, Proper Orientation	
				1	80G					80G Conn to 73C Header, 180° Misoriented	
				1	80H					80H Conn to 73C Header, Proper Orientation	
Sec.4.1		Post Test Visual Examination	See General Note 2	1	80H					80H Conn to 73C Header, 180° Misoriented	
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (CPA) - GMW #3191 (Aug. 22, 2000) page 24				40	80H	n/a	0220	TR #7135	MET		
Sec. 4.1		Pre-Test Visual Examination	See General Note 2								
Sec. 4.10		CPA Engage Force Pre-Lock to Final-Lock (Unmated connector)	The force to engage the CPA from Pre to Final-lock on an unmated connector shall be ≥ 60 N (per Molex Drawings E-34566-001 & E-34576-001)								CPA Engage Force Pre to Final Lock (Unmated Connector)
											80H
											133
											147
											142
Sec. 4.10		CPA Engage Force Pre-Lock to Final-Lock (Mated connector)	CPA engage force on a mated connector shall be ≤ 22N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 1 - 1 Finger Press)								CPA Engage Force Pre to Final Lock (Mated Connector)
											80H
											3
											7
											4
Sec. 4.10		CPA Disengage Force Final-Lock to Pre-Lock	The force to disengage the CPA from Final to Pre-lock shall be statistically equivalent to current production.								CPA Disengage Force Final to Pre-Lock
											80H
											22
											26
											24
Sec. 4.10		CPA Disengage Force (Removal from Pre-Lock)	The force to completely remove the TPA shall be ≥ 30 N (per Molex Drawings E-34566-001 & E-34576-001)								CPA Disengage Force (Removal from Pre-Lock)
											80H
											74
											92
											85
Sec.4.1		Post Test Visual Examination	See General Note 2								
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (CPA) - GMW #3191 (Aug. 22, 2000) page 24				20	56G	18 TXL	0247	TR# 6470	MET	80 Ckt not tested, 73 and 80 ckt both use same Dress Cover, Lever, and CPA.	
				20	73A						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2								

TEST PLAN				TEST REPORT						TEST DATA					
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)	
Sec. 4.10		TPA Disengage Force Final-Lock to Pre-Lock - Narrow Latch (With terminals)	The force to disengage the TPA from Final to Pre-lock with terminals shall be \geq 120 N (per GM Drawings 12582682 & 12582683)	13	73A	18 TXL				* Use the same samples for the specified tests.	TPA Disengage Force Final to Pre-Lock - Narrow latch (w/ terminals)	73A	43.4	57.6	50.2
				13	80H	18 TXL						80H	49.4	60.7	53.8
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (TPA) - GMW #3191 (Aug. 22, 2000) page 24				15 / 15	73A / 80H	See below	0343	TR# 7559 TR# 7633	MET	EV - For internal evaluation purposes only!					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Wide Latch (Without terminals)	Record the force to engage one side of the TPA from Pre to Final-lock without terminals.	3	73A	n/a			MET		TPA Engage Force Pre to Final Lock Wide Latch	73A	15	16	15
				3	80H	n/a						80H	15	15	15
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Narrow Latch (Without terminals)	Record the force to engage one side of the TPA from Pre to Final-lock without terminals.	3	73A	n/a			MET		TPA Engage Force Pre to Final Lock Narrow Latch	73A	14	14	14
				3	80H	n/a						80H	13	14	13
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Both Latches (Without terminals)	The force to engage the TPA from Pre to Final-lock without terminals shall be \geq 20 N (per Molex Drawings E-34566-001 & E-34576-001)	8	73A	n/a			MET	Reference TR 7416 for controls	TPA Engage Force Pre to Final Lock Both Latches	73A	27.1	29.0	27.9
				8	80H	n/a						80H	25.8	28.2	27.1
Sec. 4.10		TPA Disengage Force - Removal (Without terminals)	The force to completely remove the TPA from Pre-Lock shall be \geq 20 N (per Molex Drawings E-34566-001 & E-34576-001) There shall be no loose/missing pieces due to the removal of the TPA	8	73A	n/a			MET	Reference E8D: 0230 Reference TR 7422 for controls	TPA Disengage Force Removal (w/o terminals)	73A	39.0	56.7	48.8
				8	80H	n/a						80H	40.4	68.0	57.3
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock (With terminals)	The force to engage the TPA from Pre to Final-lock with terminals shall be \leq 75 N	5	73A	18 TXL				Reference E8D: 0209 & 0221 Reference TR 7424 for controls	TPA Engage Force Pre to Final Lock (w/ terminals)	73A	73.2	87.6	79.4
				5	80H	18 TXL						80H	74.6	105.3	92.6
Sec. 4.10		TPA Disengage Force Final-Lock to Pre-Lock - Wide Latch (With terminals)	The force to disengage the TPA from Final to Pre-lock with terminals shall be \geq 120 N (per GM Drawings 12582682 & 12582683)	3	73A	18 TXL					TPA Disengage Force Final to Pre-Lock - Wide latch (w/ terminals)	73A	41.4	44.1	42.4
				3	80H	18 TXL				* Use the same samples for the specified tests.		80H	31.5	32.4	32.0
Sec. 4.10		TPA Disengage Force Final-Lock to Pre-Lock - Narrow Latch (With terminals)	The force to disengage the TPA from Final to Pre-lock with terminals shall be \geq 120 N (per GM Drawings 12582682 & 12582683)	3	73A	18 TXL					TPA Disengage Force Final to Pre-Lock - Narrow latch (w/ terminals)	73A	42.0	45.6	43.5
				3	80H	18 TXL				* Use the same samples for the specified tests.		80H	40.5	43.0	41.9
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (TPA) - GMW #3191 (Aug. 22, 2000) page 24				30 / 30	73A / 80H	n/a	0343	TR# 7528 TR# 7623	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.10		TPA Disengage Force - Hand Removal (Without terminals)	The components shall not fracture during removal by hand per Tom Smith method (dual latch side as close to pre-lock as possible; single latch side to pre-lock; remove TPA from single latch side).	33	73A										
				33	80H										
Sec.4.1		Post Test Visual Examination	See General Note 2												
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (TPA) - GMW #3191 (Aug. 22, 2000) page 24				30	73A	See below	0344	TR# 7560	MET						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2												
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Wide Latch (Without terminals)	Record the force to engage one side of the TPA from Pre to Final-lock without terminals.	10	73A	n/a					TPA Engage Force Pre to Final Lock Wide Latch	73A	24.6	25.6	25.2
				10	80H	n/a						80H	24.8	25.9	25.3
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Narrow Latch (Without terminals)	Record the force to engage one side of the TPA from Pre to Final-lock without terminals.	10	73A	n/a					TPA Engage Force Pre to Final Lock Narrow Latch (w/o terminals)	73A	24.0	25.1	24.6
				10	80H	n/a						80H	23.6	24.7	24.2
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock - Both Latches (Without terminals)	The force to engage the TPA from Pre to Final-lock without terminals shall be \geq 20 N (per Molex Drawings E-34566-001 & E-34576-001)	10	73A	n/a					TPA Engage Force Pre to Final Lock Both Latches	73A	34.6	48.3	40.3
				10	80H	n/a						80H	47.5	48.9	48.1
Sec. 4.10		TPA Disengage Force - Removal (Without terminals)	The force to completely remove the TPA from Pre-Lock shall be \geq 20 N (per Molex Drawings E-34566-001 & E-34576-001) There shall be no loose/missing pieces due to the removal of the TPA	10	73A	n/a					TPA Disengage Force Removal (w/o terminals)	73A	61.3	83.1	72.4
				10	80H	n/a						80H	56.7	82.3	72.4
Sec. 4.10		TPA Engage Force Pre-Lock to Final-Lock (With terminals)	The force to engage the TPA from Pre to Final-lock with terminals shall be \leq 75 N	10	73A	18 TXL				Progressive die crimped leads from Box ID 1357-01 used	TPA Engage Force Pre to Final Lock (w/ terminals)	73A	50.9	55.7	53.0
				10	80H	18 TXL						80H	54.3	60.0	56.3
Sec. 4.10		TPA Disengage Force Final-Lock to Pre-Lock - Wide Latch (With terminals)	The force to disengage the TPA from Final to Pre-lock with terminals shall be \geq 120 N (per GM Drawings 12582682 & 12582683)	10	73A	18 TXL					TPA Disengage Force Final to Pre-Lock - Wide latch (w/ terminals)	73A	43.4	53.7	47.8
				10	80H	18 TXL				* Use the same samples for the specified tests.		80H	41.6	53.3	46.5
Sec. 4.10		TPA Disengage Force Final-Lock to Pre-Lock - Narrow Latch (With terminals)	The force to disengage the TPA from Final to Pre-lock with terminals shall be \geq 120 N (per GM Drawings 12582682 & 12582683)	10	73A	18 TXL					TPA Disengage Force Final to Pre-Lock - Narrow	73A	39.2	61.9	54.2
										* Use the same samples for the specified tests.					

TEST PLAN				TEST REPORT						TEST DATA									
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.								
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)					
Sec. 4.10	(With terminals)		be ≤ 120 N (per GM Drawings 12582682 & 12582683)																
Sec. 4.10	TPA Disengage Force Final-Lock to Pre-Lock - Narrow Latch (With terminals)		The force to disengage the TPA from Final to Pre-lock with terminals shall be ≤ 120 N (per GM Drawings 12582682 & 12582683)	5*	66A	18 TXL				* Use samples from TPA Engage Force Pre-Lock to Final-Lock (With terminals)									
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Grommet Cap Retention) - GMW #3191 (Aug. 22, 2000) page 24				See below	73A 80H	n/a	0221	TR# 6838	MET										
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																
Sec. 4.10	Grommet Cap Retention Force (Latches Engaged)		The force to remove the grommet cap from the housing with latches engaged shall be > = 110 N (per Molex Drawings E-34566-001 & E-34576-001)	10	73A														
				10	80H														
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Grommet Cap Retention) - GMW #3191 (Aug. 22, 2000) page 24				10	56G	n/a	0247	TR# 6472	MET										
				10	73A														
				10	80H														
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																
Sec. 4.10	Grommet Cap Retention Force (Latches Engaged)		The force to remove the grommet cap from the housing with latches engaged shall be > = 110 N (per Molex Drawings E-34566-001 & E-34576-001)																
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Grommet Cap Retention) - GMW #3191 (Aug. 22, 2000) page 24				10 / 10 3 / 3	73A / 80H 73A / 80H	n/a	0343	TR# 7601 TR# 7634	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.									
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																
Sec. 4.10	Grommet Cap Retention Force (Latches Engaged)		The force to remove the grommet cap from the housing with latches engaged shall be > = 110 N (per Molex Drawings E-34566-001 & E-34576-001)	13	73A														
				13	80H														
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Grommet Cap Retention) - GMW #3191 (Aug. 22, 2000) page 24				5	66A	n/a	1322	TR# 15380	MET										
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																
Sec. 4.10	Grommet Cap Retention Force (Latches Engaged)		The force to remove the grommet cap from the housing with latches engaged shall be > = 110 N (per Molex Drawings E-34566-001 & E-34576-001)	5	66A														
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Dress Cover) - GMW #3191 (Aug. 22, 2000) page 24				See below	73A 80H	18 TXL	0204	TR# 6449 TR# 6257	MET										
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																
Sec. 4.10	Dress Cover Engage Force		The force to engage the dress cover shall be ≤ 75N (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 3 - 10mm x 35mm min. contact area - 2	10	73A														
				10	80H														
Sec. 4.1	Post Test Visual Examination		See General Note 2																
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Dress Cover) - GMW #3191 (Aug. 22, 2000) page 24				30	73A	n/a	0205	TR# 6499	MET										
Sec. 4.1	Pre-Test Visual Examination		See General Note 2																

TEST PLAN				TEST REPORT						TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)		
Sec. 4.10		Dress Cover Engage Force	The force to engage the dress cover shall be $\leq 75N$ (Per Section 4.1	10	73A						Dress Cover Engage Force	73A	40.0	47.8	43.1	
Sec. 4.10		Dress Cover Disengage Force (Latches Disengaged)	The force to remove the Dress Cover with latches disengaged shall be $\leq 75N$	10	73A						Dress Cover Disengage Force (Latches Disengaged)	73A	42.2	46.1	43.9	
Sec. 4.10		Dress Cover Disengage Force (Latches Engaged)	The force to remove the Dress Cover with latches disengaged shall be $\geq 110N$	10	73A						Dress Cover Disengage Force (Latches Engaged)	73A	259	267	263	
Sec.4.1		Post Test Visual Examination	See General Note 2													
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Dress Cover) - GMW #3191 (Aug. 22, 2000) page 24				30	73A	n/a	0281	TR# 6607	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Dress Cover Engage Force	The force to engage the dress cover shall be $\leq 75N$ (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 3 - 10mm x	10	73A						Dress Cover Engage Force	73A	36.7	49.0	41.7	
Sec. 4.10		Dress Cover Disengage Force (Latches Disengaged)	The force to remove the Dress Cover with latches disengaged shall be $\leq 75N$	10	73A						Dress Cover Disengage Force (Latches Disengaged)	73A	40.8	44.7	43.3	
Sec. 4.10		Dress Cover Disengage Force (Latches Engaged)	The force to remove the Dress Cover with latches disengaged shall be $\geq 110N$	10	73A						Dress Cover Disengage Force (Latches Engaged)	73A	250	268	260	
Sec.4.1		Post Test Visual Examination	See General Note 2													
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Dress Cover) - GMW #3191 (Aug. 22, 2000) page 24				10 / 10 3 / 3	73A / 80H 73A / 80H	n/a	0343	TR# 7557 TR# 7631	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.						
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Dress Cover Engage Force	The force to engage the dress cover shall be $\leq 75N$ (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 3 - 10mm x 35mm min. contact area - 2 thumbs or palm/heel or hand press)	13	73A						Dress Cover Engage Force	73A	31.6	40.5	35.6	
Sec.4.1		Post Test Visual Examination	See General Note 2	13	80H							80H	22.6	40.4	31.0	
Connector MECHANICAL, Misc. Connector Component Engage/Disengage Force (Dress Cover) - GMW #3191 (Aug. 22, 2000) page 24				30 30	73A 80H	18 TXL	0345	TR# 7481	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Dress Cover Engage Force	The force to engage the dress cover shall be $\leq 75N$ (Per Section 4.1 SAE/USCAR-25 May 2003), (Category 3 - 10mm x	10	73A						Dress Cover Engage Force	56G	32.8	49.4	40.1	
Sec. 4.10		Dress Cover Disengage Force (Latches Disengaged)	The force to remove the Dress Cover with latches disengaged shall be $\leq 75N$	10	80H							73A	40.3	48.3	43.8	
Sec. 4.10		Dress Cover Disengage Force (Latches Engaged)	The force to remove the Dress Cover with latches disengaged shall be $\geq 110N$	10	73A						Dress Cover Disengage Force (Latches Disengaged)	56G	48.5	56.3	51.9	
Sec. 4.10		Dress Cover Disengage Force (Latches Engaged)	The force to remove the Dress Cover with latches disengaged shall be $\geq 110N$	10	80H							73A	48.6	54.4	50.9	
Sec. 4.10		Dress Cover Disengage Force (Latches Engaged)	The force to remove the Dress Cover with latches disengaged shall be $\geq 110N$	10	73A						Dress Cover Disengage Force (Latches Engaged)	56G	257	271	263	
Sec.4.1		Post Test Visual Examination	See General Note 2	10	80H							73A	258	274	263	
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1 1	73A 80H	n/a	0221	TR# 6887	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug insertion force into lock position	Statistically equivalent to test results from DVPR# 0219.								Grommet Seal Plug Insertion Force	73A	17.8	30.9	23.9	
Sec. 4.10		Grommet Seal Plug removal force from lock position	None, record for reference only.									80H	17.9	33.4	23.8	
Sec. 4.10		Grommet Seal Plug removal force from lock position	None, record for reference only.								Grommet Seal Plug Removal Force (1st Extraction)	73A	18.2	37.9	29.3	
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be $> = 5N$ and $< = 32 N$ (per Molex Drawing SD-34586-001)									80H	20.4	40.5	29.5	
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be $> = 5N$ and $< = 32 N$ (per Molex Drawing SD-34586-001)								Grommet Seal Plug Removal Force (3rd Extraction) MIN	73A	5.8	20.9	13.1	
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be $> = 5N$ and $< = 32 N$ (per Molex Drawing SD-34586-001)									80H	6.5	21.0	13.5	
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be $> = 5N$ and $< = 32 N$ (per Molex Drawing SD-34586-001)								Grommet Seal Plug Removal Force (3rd Extraction) MAX	73A	5.8	20.9	13.1	
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be $> = 5N$ and $< = 32 N$ (per Molex Drawing SD-34586-001)									80H	6.5	21.0	13.5	
Sec.4.1		Post Test Visual Examination	See General Note 2													
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	56G	n/a	0277	TR# 6625	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug insertion force into lock position	1st Insertion $< = 28 N$ (per Molex Drawing SD-34586-002, rev A)								Grommet Seal Plug Insertion Force	56G	11.8	26.2	18.9	
Sec. 4.10		Grommet Seal Plug removal force from lock position	None, record for reference only.													
Sec. 4.10		Grommet Seal Plug removal force from lock position	None, record for reference only.								Grommet Seal Plug					

TEST PLAN				TEST REPORT						TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)		
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)									Removal Force (1st Extraction)	56G	13.0	33.7	24.7
												Grommet Seal Plug Removal Force (3rd Extraction) MIN	56G	6.2	16.4	11.2
												Grommet Seal Plug Removal Force (3rd Extraction) MAX	56G	6.2	16.4	11.2
Sec.4.1		Post Test Visual Examination	See General Note 2													
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	56G	n/a	0288	TR# 6631	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug insertion force into lock position	1st Insertion <= 28 N (per Molex Drawing SD-34586-002, rev A)									Grommet Seal Plug Insertion Force	56G	10.2	25.8	19.1
Sec. 4.10		Grommet Seal Plug removal force from lock position	None, record for reference only.									Grommet Seal Plug Removal Force (1st Extraction)	56G	16.1	33.1	24.9
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)									Grommet Seal Plug Removal Force (3rd Extraction) MIN	56G	5.1	16.4	11.0
Sec.4.1		Post Test Visual Examination	See General Note 2									Grommet Seal Plug Removal Force	56G	5.1	16.4	11.0
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	56G	n/a	0219	TR# 6483	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug removal force from lock position - Post Moisture Conditioning 6 Hours @ 40°C/ 95-98% R.H.	1st Extraction shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)									Grommet Seal Plug Insertion Force Post Moist. Cond. MIN	56G	14.8	28.5	22.2
Sec.4.1		Post Test Visual Examination	See General Note 2													
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	73A 80H	n/a	0221	TR# 6888	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug removal force from lock position - Post Moisture Conditioning 6 Hours @ 40°C/ 95-98% R.H.	1st Extraction shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)									Grommet Seal Plug Insertion Force Post Moist. Cond. MIN	73A	12.0	30.4	21.3
													80H	11.3	32.0	22.7
												Grommet Seal Plug Insertion Force Post Moist. Cond. MAX	73A	12.0	30.4	21.3
Sec.4.1		Post Test Visual Examination	See General Note 2										80H	11.3	32.0	22.7
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	56G	n/a	0277	TR# 6624	MET							
Sec. 4.1		Pre-Test Visual Examination	See General Note 2													
Sec. 4.10		Grommet Seal Plug removal force from lock position - Post Moisture Conditioning 6 Hours @ 40°C/ 95-98% R.H.	1st Extraction shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)									Grommet Seal Plug Insertion Force Post Moist. Cond. MIN	56G	13.0	25.6	19.1
Sec.4.1		Post Test Visual Examination	See General Note 2									Grommet Seal Plug Insertion Force Post Moist. Cond. MAX	56G	13.0	25.6	19.1

TEST PLAN				TEST REPORT					TEST DATA					
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.			
				QTY	TYPE	GAUGE					TYPE	MIN (N)	MAX (N)	AVG (N)
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	56G	n/a	0288	TR# 6630	MET					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
Sec. 4.10		Grommet Seal Plug removal force from lock position - Post Moisture Conditioning 6 Hours @ 40°C/ 95-98% R.H.	1st Extraction shall be >= 5N and <= 32 N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											
Grommet Plug MECHANICAL, Miscellaneous Component Engage/Disengage Force (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 24				1	73A 16 plugs	n/a	1540	TR# 15895	MET					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
Sec. 4.10		Grommet Seal Plug insertion force into lock position	1st Insertion <= 40 N (per Molex Drawing SD-34586-002, rev A6)											
Sec. 4.10		Grommet Seal Plug removal force from lock position	1st Extraction: None, record for reference only.											
Sec. 4.10		Grommet Seal Plug removal force from lock position	3rd Extractions shall be >= 5N and <= 40 N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											
Grommet Plug MECHANICAL, Connector Polarization (Coding) Feature Effectiveness (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 27				1	56G	n/a	0219	TR# 6484	MET					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
GMW3191, Sec 4.14		Grommet Seal Plug (Polarization Feature Effectiveness). Force required to overcome polarization feature when grommet seal plug is inserted 90° out of intended orientation.	The force required to overcome polarization feature shall be >= 20N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											
Grommet Plug MECHANICAL, Connector Polarization (Coding) Feature Effectiveness (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 27				1	73A 80H	n/a	0221	TR# 6889	MET					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
GMW3191, Sec 4.14		Grommet Seal Plug (Polarization Feature Effectiveness). Force required to overcome polarization feature when grommet seal plug is inserted 90° out of intended orientation.	The force required to overcome polarization feature shall be >= 20N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											
Grommet Plug MECHANICAL, Connector Polarization (Coding) Feature Effectiveness (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 27				1	56G	n/a	0277	TR# 6627	MET					
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
Sec 4.14		Grommet Seal Plug (Polarization Feature Effectiveness). Force required to overcome polarization feature when grommet seal plug is inserted 90° out of intended orientation.	The force required to overcome polarization feature shall be >= 20N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											
Grommet Plug MECHANICAL, Connector Polarization (Coding) Feature Effectiveness (MX64 Grommet Seal Plug) - GMW #3191 (Aug. 22, 2000) page 27				1	56G	n/a	0288	TR# 6629 TR# 6691	MET	Cavities S, I, and W - Z. Cavities U and @.				
Sec. 4.1		Pre-Test Visual Examination	See General Note 2											
Sec 4.14		Grommet Seal Plug (Polarization Feature Effectiveness). Force required to overcome polarization feature when grommet seal plug is inserted 90° out of intended orientation.	The force required to overcome polarization feature shall be >= 20N (per Molex Drawing SD-34586-001)											
Sec.4.1		Post Test Visual Examination	See General Note 2											

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Connector MECHANICAL, Crush Test - GMW#3172 (December 2001) page 36				3	56G	18 TXL	0058	TR# 4162	MET		All samples withstood the crush load with no damage affecting the mechanical or electrical functionality of the connection system.
GMW#3191, Sec. 4.1	Pre-Test Visual Examination	See General Note 2	3	73A							
Sec 4.3.3.2.1 Method B	Crush Test	The DUT shall withstand, without electrical degradation or permanent physical damage, a simulated foot load of 890 N of a distributed force through a 50 mm X 50 mm rigid steel plate for 1 min. Apply loads in the Z and Y axis of unmated connectors	3	56G							
GMW#3191, Sec. 4.1	Post Test Visual Examination	See General Note 2	3	73A							
Connector MECHANICAL, Free Fall (Drop Test) - GMW#3172 (December 2001) page 41				3	56G	18 TXL	0058	TR# 4106	MET		All samples had visibly cracked housings and some samples had broken slides, none of the significantly damaged samples would mate after the test. * Need concurrence with GM that damage is "Significant."
GMW#3191, Sec. 4.1	Pre-Test Visual Examination	See General Note 2	3	73A							
Sec 4.3.3.4.3	Connector Free Fall Drop Test	If there is no visible damage to the DUT, then the DUT shall pass functional test at the end of test. If there is visible damage to the DUT and the damage is judged by GM Engineering to be: Insignificant - Then DUT shall pass the functional test at the end of test. Significant - Then DUT does not have to meet the performance requirements.	3	56G						Each sample is dropped twice on each axis (X, Y, and Z; once in each direction)	
GMW#3191, Sec. 4.1	Post Test Visual Examination	See General Note 2	3	80H							
Electrical Testing											
Connector ELECTRICAL, Mechanical Shock and (Body) Vibration Sequence - GMW#3191, Figure 5.2-V and VI, page73/74				6	73A	22 TXL	0121	TR #4966 TR #4967	MET		
Sec 4.1	Visual Examination	See General Notes	6	80H							
Sec 4.11	Connector and/or Terminal Cycling	None, mate each connector pair 11 times									
Sec 4.16	Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm precious plated system shall be ≤ 10 m Ω and 2.8mm Sn plated system shall be ≤ 5m Ω									
Sec 4.17	Voltage Drop (Connection Resistance)	"TOTAL CONNECTION RESISTANCE" for 0.64mm precious plated system shall be ≤ 10 m Ω and 2.8mm Sn plated system shall be ≤ 5m Ω									
Sec 4.27	Mechanical Shock - Table 4.27.4-1, Test # 2	No discontinuities > 7 Ω for more than 1 μS (2.8mm terminals not monitored).									
Sec 4.26	Vibration: Body (Sprung Masses) Vibration Schedule	No discontinuities > 7 Ω for more than 1 μS (2.8mm terminals not monitored).									
Sec 4.16	Dry Circuit Resistance - Immediately following Vibration	"TOTAL CONNECTION RESISTANCE" for 0.64mm precious plated system shall be ≤ 10 m Ω									
Sec 4.17	Voltage Drop (Connection Resistance)	"TOTAL CONNECTION RESISTANCE" for 0.64mm precious plated system shall be ≤ 10 m Ω									
Sec 4.1	Visual Examination	See General Notes. Additionally, no base metal apparent or fretting corrosion									
Connector ELECTRICAL, Mechanical Shock & Vibration (Body - Sprung Masses) - GMW3191 (Jan 2005) page 30/page38				9	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9659	MET		
§ 4.1.5	Pre-Test Visual Examination	See General Notes A & D									
§ 3.3	Connector and/or Terminal Cycling	None, mate each connector pair 11 times									
§ 4.18	Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be ≤ 15 m Ω									
§ 4.23.4	Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.									
§ 4.29	Mechanical Shock - 25G	2400 total shocks. No discontinuities > 7 Ohms for more than 1 μ S.									
§ 4.29	Mechanical Shock - 100G	Not performed - similar to DVPR0058.									

TEST PLAN				TEST REPORT						TEST DATA								
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.							
				QTY	TYPE	GAUGE					TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)				
§ 4.28.4 Fig. 14		Vibration (Body - Sprung Masses)	No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements															
Connector ELECTRICAL, Mechanical Shock & Vibration (Body - Sprung Masses) - GMW3191 (Jan 2005) page 30/page38				9	80H	18 TXL Ag rcpt Au pin	0545	TR# 9660	MET									
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.															
§ 4.29		Mechanical Shock - 25G	2400 total shocks. No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.29		Mechanical Shock - 100G	Not performed - similar to DVPR0058.															
§ 4.28.4 Fig. 14		Vibration (Body - Sprung Masses)	No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements															
Connector ELECTRICAL, Mechanical Shock & Vibration (Body - Sprung Masses) - GMW3191 (Jan 2005) page 30/page38				9	80H	18 TXL Au rcpt Ag pin	0545	TR# 9661	MET									
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.															
§ 4.29		Mechanical Shock - 25G	2400 total shocks. No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.29		Mechanical Shock - 100G	Not performed - similar to DVPR0058.															
§ 4.28.4 Fig. 14		Vibration (Body - Sprung Masses)	No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage															
Connector ELECTRICAL, Mechanical Shock & Vibration (Body - Sprung Masses) - GMW3191 (Jan 2005) page 30/page38				9	80H	18 TXL Au rcpt Au pin	0545	TR# 9662	MET	Control Group								
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.															
§ 4.29		Mechanical Shock - 25G	2400 total shocks. No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.29		Mechanical Shock - 100G	Not performed - similar to DVPR0058.															
§ 4.28.4 Fig. 14		Vibration (Body - Sprung Masses)	No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage															
Connector ELECTRICAL, Thermal Shock - GMW3191 (Jan 2005) page 25				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9664	MET	Also GMW3191 (Dec 2007) compliant								
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.															
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μ S.															
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements															

TEST PLAN				TEST REPORT					TEST DATA Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.											
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #		MET / NOT MET	REMARKS									
				QTY	TYPE	GAUGE														
Connector ELECTRICAL, Thermal Shock - GMW3191 (Jan 2005) page 25				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9664	MET	Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.																	
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μS.																	
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage																	
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	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Final Dry Circuit	80H 18 TXL	0.69	1.87	1.18																
Connector ELECTRICAL, Thermal Shock - GMW3191 (Jan 2005) page 25				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9664	MET	Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.																	
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μS.																	
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
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Initial Dry Circuit	80H 18 TXL	0.91	1.99	1.40																
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	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Final Dry Circuit	80H 18 TXL Au rcpt Ag pin	0.95	2.11	1.33																
Connector ELECTRICAL, Thermal Shock - GMW3191 (Jan 2005) page 25				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9664	MET	Control Group. Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.23.4		Circuit Continuity Monitoring	See below, a minimum of ten terminals and five connector pairs must be monitored.																	
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μS.																	
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage																	
										<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (mΩ)</th> <th>MAX (mΩ)</th> <th>AVG (mΩ)</th> </tr> </thead> <tbody> <tr> <td>Initial Dry Circuit</td> <td>80H 18 TXL</td> <td>1.06</td> <td>2.15</td> <td>1.54</td> </tr> </tbody> </table>		TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)	Initial Dry Circuit	80H 18 TXL	1.06	2.15	1.54
	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Initial Dry Circuit	80H 18 TXL	1.06	2.15	1.54																
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	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Final Dry Circuit	80H 18 TXL Au rcpt	1.05	2.02	1.45																
Connector ELECTRICAL, Temperature/Humidity Cycling - GMW3191 (Jan 2005) page 26				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9665	MET	Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.																	
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements																	
										<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (mΩ)</th> <th>MAX (mΩ)</th> <th>AVG (mΩ)</th> </tr> </thead> <tbody> <tr> <td>Initial Dry Circuit</td> <td>80H 18 TXL</td> <td>0.45</td> <td>1.86</td> <td>0.95</td> </tr> </tbody> </table>		TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)	Initial Dry Circuit	80H 18 TXL	0.45	1.86	0.95
	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Initial Dry Circuit	80H 18 TXL	0.45	1.86	0.95																
										<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (mΩ)</th> <th>MAX (mΩ)</th> <th>AVG (mΩ)</th> </tr> </thead> <tbody> <tr> <td>Final Dry Circuit</td> <td>80H 18 TXL Ag rcpt Ag pin</td> <td>0.20</td> <td>2.01</td> <td>0.90</td> </tr> </tbody> </table>		TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)	Final Dry Circuit	80H 18 TXL Ag rcpt Ag pin	0.20	2.01	0.90
	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Final Dry Circuit	80H 18 TXL Ag rcpt Ag pin	0.20	2.01	0.90																
Connector ELECTRICAL, Temperature/Humidity Cycling - GMW3191 (Jan 2005) page 26				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9665	MET	Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.																	
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements																	
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	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Initial Dry Circuit	80H 18 TXL	0.53	2.15	1.22																
										<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (mΩ)</th> <th>MAX (mΩ)</th> <th>AVG (mΩ)</th> </tr> </thead> <tbody> <tr> <td>Final Dry Circuit</td> <td>80H 18 TXL Au rcpt</td> <td>0.57</td> <td>2.12</td> <td>1.09</td> </tr> </tbody> </table>		TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)	Final Dry Circuit	80H 18 TXL Au rcpt	0.57	2.12	1.09
	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Final Dry Circuit	80H 18 TXL Au rcpt	0.57	2.12	1.09																
Connector ELECTRICAL, Temperature/Humidity Cycling - GMW3191 (Jan 2005) page 26				10	80H	18 TXL Au rcpt Ag pin	0545	TR# 9665	MET	Also GMW3191 (Dec 2007) compliant										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ																	
										<table border="1"> <thead> <tr> <th></th> <th>TYPE</th> <th>MIN (mΩ)</th> <th>MAX (mΩ)</th> <th>AVG (mΩ)</th> </tr> </thead> <tbody> <tr> <td>Initial Dry Circuit</td> <td>80H 18 TXL</td> <td>0.98</td> <td>2.29</td> <td>1.47</td> </tr> </tbody> </table>		TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)	Initial Dry Circuit	80H 18 TXL	0.98	2.29	1.47
	TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)																
Initial Dry Circuit	80H 18 TXL	0.98	2.29	1.47																

TEST PLAN				TEST REPORT						TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)		
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.													
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements													
Connector ELECTRICAL, Temperature/Humidity Cycling - GMW3191 (Jan 2005) page 26				10	80H	18 TXL Au rcpt Au pin	0545	TR# 9665	MET	Control Group. Also GMW3191 (Dec 2007) compliant						
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D													
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times													
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.													
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements													
Connector ELECTRICAL, Thermal Aging / Thermal Shock / Temp.-Humidity - GMW3191 (Jan 2005)				10	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9663 TR# 10005	MET	Also GMW3191 (Dec 2007) compliant						
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D													
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times													
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.22		Thermal Aging - 1008 Hours @ Max Temp	None, environmental conditioning only.													
§ 4.18		Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μS.													
§ 4.18		Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.													
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage													
Connector ELECTRICAL, Thermal Aging / Thermal Shock / Temp.-Humidity - GMW3191 (Jan 2005)				10	80H	18 TXL Ag rcpt Au pin	0545	TR# 9663 TR# 10005	MET	Also GMW3191 (Dec 2007) compliant						
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D													
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times													
§ 4.18		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.22		Thermal Aging - 1008 Hours @ Max Temp	None, environmental conditioning only.													
§ 4.18		Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.23		Thermal Shock - 300 Cycles	No discontinuities > 7 Ohms for more than 1 μS.													
§ 4.18		Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.24		Temperature/Humidity Cycling - 10 Cycles	None, environmental conditioning only.													
§ 4.18		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ													
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage													
Connector ELECTRICAL, Thermal Aging / Thermal Shock / Temp.-Humidity - GMW3191 (Jan 2005)				10	80H	18 TXL Au rcpt Ag pin	0545	TR# 9663 TR# 10005	MET	Also GMW3191 (Dec 2007) compliant						
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D													
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times													

TEST PLAN				TEST REPORT					TEST DATA							
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)		
Sec. 5.3.4		1008 Hour Current Cycling* (42 twenty-four hour cycles) *Load current = 25A, Ambient Temperature = 125°C Twenty-four hour cycle = Hours #1-10: load current "on" 45 min and "off" 15 min @ 125°C Hour #11: load current "off" - transition from 125C to -40C in 55min, dwell for 5 min Hour #12: load current "off" - dwell -40C for 5 min, transition from -40C to 125C in 55 min Hours #13-24: load current "on" 45 min and "off" 15 min @ 125°C	The temperature of any test sample may not exceed a 55°C above ambient. The total connection resistance of any terminal pair may not exceed 5 mΩ								*Measurements taken during hour #1008					
Sec. 5.3.2		Voltage Drop (room temp)	TOTAL CONNECTION RESISTANCE* for 2.80mm system shall be <= 5 mΩ and no more than a T&D% increase in total connection resistance from initial voltage drop. See General Notes 1b and 1d.								AMBIENT = 125°C	2.8mm	Yazaki	MIN (°C)	MAX (°C)	AVG (°C)
Sec. 5.1.8		Post Test Visual Examination									Temperature Rise Above Ambient	2.8mm	Yazaki	22.00	32.40	30.01
											Connection Resistance	2.8mm	Yazaki	1.10	1.23	1.18
											Final Voltage Drop @ 25A	2.8mm	Yazaki			

Connector ELECTRICAL, High Current at Hot Ambient - GMW3191 (Jan 2005) and G. Fleck email 8/26/08				5	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9719	MET								
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D														
§ 4.17		Initial Dry Circuit Resistance High Current at Hot Ambient	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Exposure only. Temperature 127°C.														
§ 4.17		Final Dry Circuit Resistance Δ Dry Circuit Resistance	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Report the Δ in resistance.														
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage														

Connector ELECTRICAL, High Current at Hot Ambient - GMW3191 (Jan 2005) and G. Fleck email 8/26/08				5	80H	18 TXL Au rcpt Au pin	0545	TR# 9719	MET	Control Group							
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D														
§ 4.17		Initial Dry Circuit Resistance High Current at Hot Ambient	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Exposure only. Temperature 127°C.														
§ 4.17		Final Dry Circuit Resistance Δ Dry Circuit Resistance	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Report the Δ in resistance.														
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage														

Connector ELECTRICAL, High Current at Hot Ambient - G. Fleck email 8/26/08				5	80H	18 TXL Ag rcpt Ag pin	0689	TR# 11097	MET								
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D														
§ 4.17		Initial Dry Circuit Resistance High Current at Hot Ambient	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Exposure only.														
§ 4.17		Final Dry Circuit Resistance Δ Dry Circuit Resistance	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Report the Δ in resistance.														
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage														

Connector ELECTRICAL, High Current at Hot Ambient - G. Fleck email 8/26/08				5	80H	18 TXL Ag rcpt Au pin	0689	TR# 11097	MET								
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D														
§ 4.17		Initial Dry Circuit Resistance High Current at Hot Ambient	TOTAL CONNECTION RESISTANCE* for 0.64mm system shall be <= 15 mΩ None. Exposure only.														

TEST PLAN				TEST REPORT						TEST DATA								
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.							
				QTY	TYPE	GAUGE					TYPE	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)				
§ 4.17		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
		Δ Dry Circuit Resistance	None. Report the Δ in resistance.															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage															
Connector ELECTRICAL, High Current at Hot Ambient - G. Fleck email 8/26/08				5	80H	18 TXL Au rept Ag pin	0689	TR# 11097	MET									
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D															
§ 4.17		Initial Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
		High Current at Hot Ambient	None. Exposure only.															
§ 4.17		Final Dry Circuit Resistance	"TOTAL CONNECTION RESISTANCE" for 0.64mm system shall be <= 15 mΩ															
		Δ Dry Circuit Resistance	None. Report the Δ in resistance.															
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage															
Environmental Testing																		
Connector SEALING, Thermal Shock - GMW#3191 (August 22, 2000) page 40				10	73A Option 0	22 TXL	0280	TR# 6849	MET									
Sec 4.1		Visual Examination	See General Note 2															
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.															
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.22		Thermal Shock	None, environmental conditioning only.															
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.29		High Pressure Spray	None, environmental conditioning only.															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.															
Sec 4.1		Visual Examination	See General Notes. Additionally, no base metal apparent or fretting corrosion products at contact surface at 10X magnification. In addition, there shall be no visible water inside the connector.															
Connector SEALING, Thermal Shock - GMW#3191 (August 22, 2000) page 40				10 10	73A Option 9	22 TXL	0280	TR# 7365	MET	10 with 2.8 ICW @ 4.80 10 with 2.8 ICW @ 4.95								
Sec 4.1		Visual Examination	See General Note 2															
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.															
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.22		Thermal Shock	None, environmental conditioning only.															
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.29		High Pressure Spray	None, environmental conditioning only.															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.															
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.															
Connector SEALING, Thermal Shock - GMW#3191 (August 22, 2000) page 40				5	73A Opt0	22 TXL	0393	TR# 7989	MET									
Sec 4.1		Visual Examination	See General Note 2															
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.															
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times															
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}															

TEST PLAN				TEST REPORT						TEST DATA
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS
				QTY	TYPE	GAUGE				
Sec 4.22		Thermal Shock	None, environmental conditioning only.							
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 µA.							
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
Sec 4.29		High Pressure Spray	None, environmental conditioning only.							
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.							
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.							
Connector SEALING, Thermal Shock - GMW#3191 (August 22, 2000) page 40				5	73A Opt9	22 TXL	0393	TR# 7990	MET	
Sec 4.1		Visual Examination	See General Note 2							
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.							
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times							
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
Sec 4.22		Thermal Shock	None, environmental conditioning only.							
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 µA.							
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
Sec 4.29		High Pressure Spray	None, environmental conditioning only.							
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.							
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.							
Sealed Connector ENVIRONMENTAL, Thermal Shock - GMW3191 (Dec 2007) page 26				8	66A	18TXL	1322	TR# 15383	MET	
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D							
§ 4.30.3 - Line 3		MAT Seal Conditioning	Ten cavities, remove and re-insert terminals in cavities specified in TR.							
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.30		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection.							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.1.7		Visual Examination	No evidence of water present in the interior of either mated connector.							
§ 4.22		Thermal Shock - 300 Cycles	None, environmental conditioning only.							
§ 4.30		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.1.7		Visual Examination	No evidence of water present in the interior of either mated connector.							
§ 4.29		Water Submersion	The leakage current shall not exceed 5 µA.							
§ 4.1.7		Visual Examination	No evidence of water present in the interior of either mated connector.							
§ 4.31		High Pressure Spray	None, environmental conditioning only.							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.20		Dielectric Strength	No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector							
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage							
Sealed Connector ENVIRONMENTAL, Thermal Shock - GMW3191 (Dec 2007) page 26				10	18ckt Key G 18ckt Key H	18TXL - MX64 6.0mm ² - Apex 6.3	1489	TR# 15434	MET	
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D							
§ 4.30.3 - Line 3		MAT Seal Conditioning	Ten cavities, remove and re-insert terminals in cavities specified in TR.							
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.30		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection.							
§ 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							
§ 4.1.7		Visual Examination	No evidence of water present in the interior of either mated connector.							
§ 4.22		Thermal Shock - 300 Cycles	None, environmental conditioning only.							
§ 4.30		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr							

TEST PLAN				TEST REPORT						TEST DATA
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS
				QTY	TYPE	GAUGE				
Vacuum: Must meet Isolation Resistance test and post test Visual Inspection. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No evidence of water present in the interior of either mated connector. The leakage current shall not exceed 5 μ A. No evidence of water present in the interior of either mated connector. None, environmental conditioning only. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector at any time during the test. See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage										
Sealed Connector ENVIRONMENTAL, Thermal Shock - GMW3191 (Dec 2007) page 26				5 samples 1.0mm ID MAT SEAL	73ckt key A opt. 0 hrs conn assy	0.50mm ²	1467	TR #15851	MET	
See General Notes A & D Ten cavities, remove and re-insert terminals in cavities specified in TR. None, mate each connector pair 11 times Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No evidence of water present in the interior of either mated connector. None, environmental conditioning only. Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and post test Visual Inspection. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No evidence of water present in the interior of either mated connector. The leakage current shall not exceed 5 μ A. No evidence of water present in the interior of either mated connector. None, environmental conditioning only. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector at any time during the test. See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage										
Sealed Connector ENVIRONMENTAL, Thermal Shock - GMW3191 (Dec 2007) page 26				5 samples of 0.75mm ID MAT SEAL	73ckt key A opt. 0 hrs conn assy	0.50mm ²	1467	15851	MET	
See General Notes A & D Ten cavities, remove and re-insert terminals in cavities specified in TR. None, mate each connector pair 11 times Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No evidence of water present in the interior of either mated connector. None, environmental conditioning only. Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and post test Visual Inspection. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No evidence of water present in the interior of either mated connector. The leakage current shall not exceed 5 μ A. No evidence of water present in the interior of either mated connector. None, environmental conditioning only. Isolation resistance shall exceed 100 M Ω @ 500V _{DC} . No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector at any time during the test.										

TEST PLAN				TEST REPORT					TEST DATA Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.		
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #		MET / NOT MET	REMARKS
				QTY	TYPE	GAUGE					
§ 4.1.7		Post Test Visual Examination	See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage								
Connector SEALING, Temperature/Humidity Cycling - GMW#3191 (August 22, 2000) page 43				10	73A Option 0	22 TXL	0280	TR# 6851	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.23		Temperature/Humidity Cycling	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Temperature/Humidity Cycling - GMW#3191 (August 22, 2000) page 43				10	73A Option 9	22 TXL	0280	TR# 6852	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.23		Temperature/Humidity Cycling	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Temperature/Humidity Cycling - GMW#3191 (August 22, 2000) page 43				5	73A Opt0	22 TXL	0393	TR# 7991	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.23		Temperature/Humidity Cycling	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Notes. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Temperature/Humidity Cycling - GMW#3191 (August 22, 2000) page 43				5	73A Opt9	22 TXL	0393	TR# 7992	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.23		Temperature/Humidity Cycling	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Sec 4.1	Visual Examination		See General Notes. In addition, there shall be no visible water inside the connector.								
SC4	Sealed Connector ENVIRONMENTAL, Temperature/Humidity Cycling - GMW3191 (Dec 2007) page 27			5 samples of 1.0mm ID MAT SEAL	73ckt key A opt. 0 hrs conn assy	0.50mm ²	1467	TR #15848	MET		
§ 4.1.5	Pre-Test Visual Examination		See General Notes A & D								
§ 4.30.3 - Line 3	MAT Seal Conditioning		Ten cavities, remove and re-insert terminals in cavities specified in TR.								
§ 3.3	Connector and/or Terminal Cycling		None, mate each connector pair 11 times								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.30	Pressure/Vacuum (48 kPa)		Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.23	Temperature/Humidity Cycling - 10 Cycles		None, environmental conditioning only.								
§ 4.30	Pressure/Vacuum (28 kPa)		Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.29	Water Submersion		The leakage current shall not exceed 5 μA.								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.31	High Pressure Spray		None, environmental conditioning only.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.20	Dielectric Strength		No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector at any time during the test.								
§ 4.1.7	Post Test Visual Examination		See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage								
SC4	Sealed Connector ENVIRONMENTAL, Temperature/Humidity Cycling - GMW3191 (Dec 2007) page 27			5 samples each of 0.75mm ID MAT SEAL	73ckt Key A opt. 0 hrs conn assy	0.50mm ²	1467	TR #15848	MET		
§ 4.1.5	Pre-Test Visual Examination		See General Notes A & D								
§ 4.30.3 - Line 3	MAT Seal Conditioning		Ten cavities, remove and re-insert terminals in cavities specified in TR.								
§ 3.3	Connector and/or Terminal Cycling		None, mate each connector pair 11 times								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.30	Pressure/Vacuum (48 kPa)		Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and mid test visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.23	Temperature/Humidity Cycling - 10 Cycles		None, environmental conditioning only.								
§ 4.30	Pressure/Vacuum (28 kPa)		Pressure: No loss of applied pressure and no bubbles visible exiting any test sarr Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.29	Water Submersion		The leakage current shall not exceed 5 μA.								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.31	High Pressure Spray		None, environmental conditioning only.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.20	Dielectric Strength		No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector at any time during the test.								
§ 4.1.7	Post Test Visual Examination		See General Notes C & D. All mechanical assists and/or other elements required to separate connectors for service must function without breakage								
Connector SEALING, Thermal Aging - GMW3191 (August 22, 2000) page 39				10	73A Option 0	22 TXL	0280	TR# 6853	MET		
Sec 4.1	Visual Examination		See General Note 2								

TEST PLAN				TEST REPORT					TEST DATA Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.		
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #		MET / NOT MET	REMARKS
				QTY	TYPE	GAUGE					
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.21		Thermal Aging	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Note 2. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Thermal Aging - GMW#3191 (August 22, 2000) page 39				10	73A Option 9	22 TXL	0280	TR# 6854	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.21		Thermal Aging	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Note 2. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Thermal Aging - GMW#3191 (August 22, 2000) page 39				5	73A Opt0	22 TXL	0393	TR# 7982	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.								
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.21		Thermal Aging	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.							* TR 3942 sample #7 and TR 3943 sample #6 had wire insulation damaged by clamp on vibration fixture exposing conductor. Both samples exceeded 20 MW requirement and were removed from further testing.	
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.29		High Pressure Spray	None, environmental conditioning only.								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.							All samples' isolation resistance was > 2 GΩ	
Sec 4.1		Visual Examination	See General Note 2. In addition, there shall be no visible water inside the connector.								
Connector SEALING, Thermal Aging - GMW#3191 (August 22, 2000) page 39				5	73A Opt9	22 TXL	0393	TR# 7983	MET		
Sec 4.1		Visual Examination	See General Note 2								
Sec 4.28		MAT Seal Conditioning	Remove and re-insert terminals twice into cavities specified in TR.							All samples' isolation resistance was > 2 GΩ	
Sec 4.11		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.21		Thermal Aging	None, environmental conditioning only.								
Sec 4.28		Water Submersion (One cycle only)	The leakage current shall not exceed 5 μA.							All samples' isolation resistance was > 2 GΩ	
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}							No loss of applied pressure or bubbles were observed during the test.	

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Sec 4.29	High Pressure Spray		None, environmental conditioning only.								
Sec 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								All samples' isolation resistance was > 2 G Ω
Sec 4.20	Dielectric Strength		No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1	Visual Examination		See General Note 2. In addition, there shall be no visible water inside the connector.								
Sealed Connector ENVIRONMENTAL, Thermal Aging - GMW3191 (Dec 2007) page 26				15 samples 1.0mm mat seal ID 15 samples 0.75mm mat seal ID		0.50mm ²	1467	15850	MET		
§ 4.1.5	Pre-Test Visual Examination		See General Notes A & D								
§ 4.30.3 - Line 3	MAT Seal Conditioning		Ten cavities, remove and re-insert terminals in cavities specified in TR.								
§ 3.3	Connector and/or Terminal Cycling		None, mate each connector pair 11 times								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.30	Pressure/Vacuum (48 kPa)		Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.21	Thermal Aging - 70 Hours @ Max Temp (Do not perform Water Pressure/Vacuum (28 kPa))		None, environmental conditioning only.	5							
§ 4.30			Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.29	Water Submersion		The leakage current shall not exceed 5 mA.								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.31	High Pressure Spray		None, environmental conditioning only.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.20	Dielectric Strength		No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector								
§ 4.1.7	Post Test Visual Examination		See General Notes C & D. All mechanical assists and/or other elements								
§ 4.21	Thermal Aging - 480 Hours @ Max Temp (Do not perform Water Pressure/Vacuum (28 kPa))		None, environmental conditioning only.	5							
§ 4.30			Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.29	Water Submersion		The leakage current shall not exceed 5 mA.								
§ 4.1.7	Visual Examination		No evidence of water present in the interior of either mated connector.								
§ 4.31	High Pressure Spray		None, environmental conditioning only.								
§ 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
§ 4.20	Dielectric Strength		No dielectric breakdown or flash-over shall occur between cavities or between the cavities and the outside of a connector								
§ 4.1.7	Post Test Visual Examination		See General Notes C & D. All mechanical assists and/or other elements								
Connector SEALING ENVIRONMENTAL, Fluid Resistance Sequence - GMW3191, Fig. 5.2- II, page 70				27	WFL4036	NA	0121	TR #5116	MET	Three samples per fluid.	
Sec 4.1	Visual Examination		See General Note 2								
Sec 4.30	Fluid Resistance:		None, environmental conditioning only.								
	Brake Fluid - SAE RM66-04 @ 50°C										
	Oil - ASTM IRM-902 @ 50°C										
	Gasoline - ASTM Ref. Fuel C @ 25°C										
	Engine Coolant - ASTM Serv, Fluid 104 @ 100°C										
	Auto. Trans. Fluid - Citgo #33123 @ 50°C										
	Windshield Washer Solvent - Commercial @ 25°C										
	Power Steering Fluid - ASTM IRM-903 @ 50°C										
	Diesel Fuel - 90% IRM 903 + 10% Xylene @ 25°C										
	E85 Ethanol Fuel - 85% Ethanol + 15% ASTM Fuel C @ 25°C										
Sec 4.1	Visual Examination		See General Note 2. Additionally, there must be no degradation, swelling, cracking, or loss of mechanical function evident on any test sample, examined with the aid of 10X magnification.								All samples' isolation resistance was > 2 G Ω No dielectric breakdowns were observed during the test.
Connector SEALING, Corrosion Resistance - Salt Spray (Per bcp_0184.doc from Greg Fleck - GM)				4	56G	22 TXL	0058	TR# 3852	MET	This test to be used in lieu of Sealed Connector System ENVIRONMENTAL, Corrosion - GMW#3191, fig 5.2-II, page 70. One samples of each connector type per axis.	
Sec 4.1	Visual Examination		See General Note 2								No loss of applied pressure or bubbles were observed during the test.
Sec 4.19	Isolation Resistance		Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								No loss of applied pressure or bubbles were observed during the test.
	The test sample shall have production intent harness connectors installed, properly assembled with the correct										
	A salt spray chamber of sufficient size is used which will permit product test samples, each to be positioned a distance of 11.8-23.6										
	Cable shall exit the chamber such that the wire ends are protected from the salt spray.										
	Product samples shall be oriented in the chamber in front of 4 ^T spray nozzles, which will spray a salt solution directly at the										T 4 spray nozzels instead of 6.

TEST PLAN				TEST REPORT					TEST DATA Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.		
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #		MET / NOT MET	REMARKS
				QTY	TYPE	GAUGE					
		<p>X+, From CKT # 1 to CKT # 16: 3 samples (min); X- : 0 sample Y+, Circuit # 1 to Circuit # 53 : 3 samples (min); The salt water solution will be 5 parts NaCl (±1%) by weight in 95 parts de-ionized water.</p> <p>One cycle of the test consists of following: c. Allow units to dry one hour in 25° C (±5° C) still air. d. Repeat Steps a, b and c. 2 units may be removed at 30 cycles to verify performance.</p>								TT The orientation used in lieu of "Samples will be oriented upward, two downward and two with the connectors facing the nozzles."	
Sec 4.19		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec 4.20		Dielectric Strength	No current leakage (dielectric breakdown) shall flow between cavities or between cavities and outside of connector at any time during the test.								
Sec 4.1		Visual Examination	See General Note 2. Additionally, there shall be no evidence of salt water beyond the sealing surfaces.								
Sealed Connector ENVIRONMENTAL, Pressure/Vacuum Leak - USCAR-2 Rev. 3 (April 2001) page 55				10	56G						
				10	73A	22 TXL	0247	TR# 6468	MET		
				10	80H						
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec. 5.6.5.3 Line 2		MAT Seal Conditioning	Ten cavities, remove and re-insert terminals in cavities specified in TR.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per CUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Connector SEALING, Pressure/Vacuum Leak - USCAR-2 Rev. 3 (April 2001) page 55				10	73A	22 TXL	0280	TR #6855	MET		
					Option 0						
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per CUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Connector SEALING, Pressure/Vacuum Leak - USCAR-2 Rev. 3 (April 2001) page 55				10	73A	22 TXL	0280	TR #6856	MET		
					Option 9						
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec 4.28		MAT Seal Conditioning	Insert and remove a single crimped lead twice before re-inserting a third time into each cavity. Repeat for all connector cavities.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per CUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual inspection.								

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Connector SEALING, Pressure/Vacuum Leak - USCAR-2 Rev. 3 (April 2001) page 55				5 / 5 3 / 3	73A / 80H 73A / 80H	22 TXL 22 TXL	0343	TR# 7533 TR# 7637	MET MET	Units Under Test are from tool cavities 13, 14 & 16 only. Units Under Test are from tool cavity 15 only.	
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec. 5.6.5.3 Line 2		MAT Seal Conditioning	Ten cavities, remove and re-insert terminals in cavities specified in TR.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per CUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual Inspection.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 20 M Ω @ 500V _{DC}								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Connector ENVIRONMENTAL, Pressure/Vacuum Leak - USCAR-2 Rev. 5 (Nov 2007) page 68				8	66A	4 samples - 18 TXL 4 samples - 22 TXL	1322	TR# 15381	MET		
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec. 5.6.5.3 Line 2		MAT Seal Conditioning	Ten cavities, remove and re-insert terminals in cavities specified in TR.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample.								
Sec. 5.5.1		Isolation Resistance	Isolation resistance shall exceed 100 M Ω @ 500V _{DC}								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, environmental conditioning only (maximum temperature per CUT classification).								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample.								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
POST TEST EVAL.		MX123 GROMMET SEAL TEAR EVALUATION									No loss of applied pressure or bubbles were observed during the test.
Grommet Plug SEALING, Pressure/Vacuum Leak (MX64 Grommet Seal Plug) - USCAR-2 Rev. 3 (April 2001) page 61				5	56G	n/a	0219	TR# 6515	MET		
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec. 5.6.5.3 Line 2		MAT Seal Conditioning	Ten random cavities, remove and re-insert grommet plugs in cavities specified in TR.								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet mid test visual inspection.								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per UUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet post test Visual Inspection.								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Grommet Plug SEALING, Pressure/Vacuum Leak (MX64 Grommet Seal Plug) - USCAR-2 Rev. 3 (April 2001) page 55				5	56G	n/a	0277	TR# 6626	MET		
Sec. 5.1.8		Pre-Test Visual Examination	See General Notes 1a and 1c.								
Sec. 5.6.5.3 Line 2		MAT Seal Conditioning	Ten random cavities, remove and re-insert grommet plugs in cavities specified in TR.								
Sec. 5.1.7		Connector and/or Terminal Cycling	None, mate each connector pair 11 times								
Sec. 5.6.6		Pressure/Vacuum (48 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet mid test visual inspection.								
Sec. 5.1.8		Mid Test Visual Examination	See General Notes 1b and 1c.								
Sec. 5.6.6		Seventy Hour Heat Soak	None, maximum temperature per UUT classification								
Sec. 5.6.6		Pressure/Vacuum (28 kPa)	Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet post test Visual Inspection.								
Sec. 5.1.8		Post Test Visual Examination	See General Notes 1b and 1c.								
Grommet Plug SEALING, Pressure/Vacuum Leak (MX64 Grommet Seal Plug) - USCAR-2 Rev. 3 (April 2001) page 55				5	56G	n/a	0288	TR# 6628	MET		

TEST PLAN				TEST REPORT						TEST DATA	
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.
				QTY	TYPE	GAUGE					
Sec. 5.1.8 Sec. 5.6.5.3 Line 2 Sec. 5.1.7 Sec. 5.6.6 Sec. 5.1.8 Sec. 5.6.6 Sec. 5.6.6 Sec. 5.1.8	Pre-Test Visual Examination MAT Seal Conditioning Connector and/or Terminal Cycling Pressure/Vacuum (48 kPa) Mid Test Visual Examination Seventy Hour Heat Soak Pressure/Vacuum (28 kPa) Post Test Visual Examination	See General Notes 1a and 1c. Ten random cavities, remove and re-insert grommet plugs in cavities specified in TR. None, mate each connector pair 11 times Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet mid test visual inspection. See General Notes 1b and 1c. None, maximum temperature per UUT classification Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet post test Visual Inspection. See General Notes 1b and 1c.									
Grommet Plug SEALING, Pressure/Vacuum Leak - USCAR-2 Rev. 5 (Nov 2007) page 68				5	73A 16 plugs per conn	18 TXL	1540	TR #15899	MET	Test Group	
Sec. 5.1.8 Sec. 5.6.5.3 Line 2 Sec. 5.1.7 Sec. 5.5.1 Sec. 5.6.6 Sec. 5.5.1 Sec. 5.1.8 Sec. 5.6.6 Sec. 5.6.6 Sec. 5.5.1 Sec. 5.1.8	Pre-Test Visual Examination MAT Seal Conditioning Connector and/or Terminal Cycling Isolation Resistance Pressure/Vacuum (48 kPa) Isolation Resistance Mid Test Visual Examination Seventy Hour Heat Soak Pressure/Vacuum (28 kPa) Isolation Resistance Post Test Visual Examination	See General Notes 1a and 1c. Ten cavities, remove and re-insert terminals in cavities specified in TR. None, mate each connector pair 11 times Isolation resistance shall exceed 100 M W @ 500V _{DC} Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection. Isolation resistance shall exceed 100 M W @ 500V _{DC} See General Notes 1b and 1c. None, environmental conditioning only (maximum temperature per CUT classification). Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and post test Visual Inspection. Isolation resistance shall exceed 100 M W @ 500V _{DC} See General Notes 1b and 1c.									
Connector ENVIRONMENTAL, Pressure/Vacuum Leak (II) - USCAR-2 Rev. 5 (Nov 2007) page 68				6	18ckt key G 18ckt key H	18 TXL - MX64 6.0mm ² - Apex 6.3	1489	TR# 15928	MET		
Sec. 5.1.8 Sec. 5.6.5.3 Line 2 Sec. 5.1.7 Sec. 5.5.1 Sec. 5.6.6 Sec. 5.5.1 Sec. 5.1.8 Sec. 5.6.6 Sec. 5.6.6 Sec. 5.1.8	Pre-Test Visual Examination MAT Seal Conditioning Connector and/or Terminal Cycling Isolation Resistance Pressure/Vacuum (48 kPa) Isolation Resistance Mid Test Visual Examination Seventy Hour Heat Soak Pressure/Vacuum (28 kPa) Post Test Visual Examination	See General Notes 1a and 1c. Six cavities, remove and re-insert terminals in cavities specified in TR. None, mate each connector pair 11 times Isolation resistance shall exceed 100 MΩ @ 500V _{DC} Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection. Isolation resistance shall exceed 100 MΩ @ 500V _{DC} See General Notes 1b and 1c. None, environmental conditioning only (maximum temperature per CUT classification). Pressure: No loss of applied pressure and no bubbles visible exiting any test sample. Vacuum: Must meet Isolation Resistance test and mid test visual inspection. See General Notes 1b and 1c.									
Connector ENVIRONMENTAL, Flammability - GMW #3191 (Aug. 22, 2000) page 46				n/a	n/a	n/a	0058	Per Supplier	MET	All flammability testing per supplier.	
Sec. 4.24	Flammability	The burn rate of the plastic material sample when tested to ISO 3795 shall not exceed 100 mm/min.	Noryl Noryl Celanex Questa Questa	GTx810 GTx830 3309HR 7010 7020							
Connector MECHANICAL, Flammability - GMW #3191 (Aug. 22, 2000) page 46				n/a	n/a	n/a	0121	Per Supplier	MET	All flammability testing per supplier.	
Sec. 4.24	Flammability	The burn rate of the plastic material sample when tested to ISO 3795 shall not exceed 100 mm/min.									
CE8a Connector ELECTRICAL, Corrosion Test with Flow of Mixed Gas (MFG) - Connector - GMW3431 (Aug 2001) page 20				5	80H	18 TXL Ag rept Ag pin	0545	TR# 9720	MET	GMW3431 & "MFG Test Procedure for SilverRev2"	
§ 4.1.5	Pre-Test Visual Examination	See General Notes A & D									

TEST PLAN				TEST REPORT						TEST DATA										
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.									
				QTY	TYPE	GAUGE					TYPE	Ag rcpt Ag pin	MIN (mΩ)	MAX (mΩ)	AVG (mΩ)					
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	None. Record dry circuit resistance.																	
Sect. 4.4.7.1		Corrosion Test with Flow of Mixed Gas (MFG)	None. Exposure only, under hood application.																	
§ 4.18		Final Dry Circuit Resistance	None. Record dry circuit resistance.																	
§ 4.1.7		Post Test Visual Examination (10x magnification)	See General Notes C & D																	
CE8b Connector ELECTRICAL, Corrosion Test with Flow of Mixed Gas (MFG) - Connector - GMW3431 (Aug 2001) page 20				5	80H	18 TXL Ag rcpt Au pin	0545	TR# 9720	MET	GMW3431 & "MFG Test Procedure for SilverRev2"										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	None. Record dry circuit resistance.																	
Sect. 4.4.7.1		Corrosion Test with Flow of Mixed Gas (MFG)	None. Exposure only, under hood application.																	
§ 4.18		Final Dry Circuit Resistance	None. Record dry circuit resistance.																	
§ 4.1.7		Post Test Visual Examination (10x magnification)	See General Notes C & D																	
CE8c Connector ELECTRICAL, Corrosion Test with Flow of Mixed Gas (MFG) - Connector - GMW3431 (Aug 2001) page 20				5	80H	18 TXL Au rcpt Ag pin	0545	TR# 9720	MET	GMW3431 & "MFG Test Procedure for SilverRev2"										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	None. Record dry circuit resistance.																	
Sect. 4.4.7.1		Corrosion Test with Flow of Mixed Gas (MFG)	None. Exposure only, under hood application.																	
§ 4.18		Final Dry Circuit Resistance	None. Record dry circuit resistance.																	
§ 4.1.7		Post Test Visual Examination (10x magnification)	See General Notes C & D																	
CE8d Connector ELECTRICAL, Corrosion Test with Flow of Mixed Gas (MFG) - Connector - GMW3431 (Aug 2001) page 20				5	80H	18 TXL Au rcpt Au pin	0545	TR# 9720	MET	GMW3431 & "MFG Test Procedure for SilverRev2"										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 3.3		Connector and/or Terminal Cycling	None, mate each connector pair 11 times																	
§ 4.18		Initial Dry Circuit Resistance	None. Record dry circuit resistance.																	
Sect. 4.4.7.1		Corrosion Test with Flow of Mixed Gas (MFG)	None. Exposure only, under hood application.																	
§ 4.18		Final Dry Circuit Resistance	None. Record dry circuit resistance.																	
§ 4.1.7		Post Test Visual Examination (10x magnification)	See General Notes C & D																	
CE9 Connector ELECTRICAL, Corrosion Test with Flow of Mixed Gas (MFG) - Terminals - "MFG Test Procedure for SilverRev2.doc"				5	80H	Ag rcpt Ag pin	0545	TR# 9721	MET	GMW3431 & "MFG Test Procedure for SilverRev2"										
§ 4.1.5		Pre-Test Visual Examination	See General Notes A & D																	
§ 4.18		Initial Dry Circuit Resistance	None. Record dry circuit resistance.																	
Sect. 4.4.7.1		Corrosion Test with Flow of Mixed Gas (MFG)	None. Exposure only.																	
§ 4.18		Dry Circuit Resistance - 7 days	None. Record dry circuit resistance.																	
§ 4.18		Dry Circuit Resistance - 14 days	None. Record dry circuit resistance.																	
§ 4.18		Dry Circuit Resistance - 21 days	None. Record dry circuit resistance.																	
§ 4.18		Dry Circuit Resistance - 28 days	None. Record dry circuit resistance.																	
§ 4.18		Dry Circuit Resistance - 33 days	None. Record dry circuit resistance.																	
§ 4.1.7		Post Test Visual Examination (10x magnification)	See General Notes C & D																	
Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9518	MET											
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	4																
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2																
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4																
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	2																
GMW3172 Section 5.4.1.2		Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.	2																
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2																

TEST PLAN				TEST REPORT					TEST DATA							
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	18 TXL Ag rcpt Ag pin	MIN (°C)	MAX (°C)	AVG (°C)	
GMW3172 Section 5.5.5		Thermal Shock Test	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		2.81	4.75	3.37	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	PTC		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		2.82	5.86	3.30	
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 1, 2, 3.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	4						Samples 1, 2, 3, 4, 5.						
Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9518	MET							
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 6, 7.	Pressure Leak	80H	18 TXL Ag rcpt Ag pin	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.71	5.80	3.33	
GMW3172 Section 5.6.1		Humidity (Cyclic) Test	See Dry Circuit Resistance below.	5						Samples 6, 7, 8, 9, 10.	Humidity (Cyclic)		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		3.01	4.09	3.42	
GMW3172 Section 5.5.5		Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.66	6.26	3.48	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	PTC		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.23	5.63	3.00	
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 6, 7.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.35	3.88	2.96	
GMW3172 Section 5.8		Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.54	4.85	3.04	
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 6, 7.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						

TEST PLAN				TEST REPORT					TEST DATA									
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.							
				QTY	TYPE	GAUGE					TYPE	MIN (°C)	MAX (°C)	AVG (°C)				
Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0545	TR# 9518	MET									
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		5						Samples 11, 12, 13, 14, 15.								
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 11, 12.	Pressure Leak	80H	18 TXL Ag rcpt Ag pin	NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.29	4.55	3.68		
GMW3172 Section 5.6.2	Humidity (Constant) Test	See Dry Circuit Resistance below.		5						Samples 11, 12, 13, 14, 15.	Humidity (Constant)			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.	Dry Circuit			2.77	4.06	3.33		
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		5						Samples 11, 12, 13, 14, 15.	Thermal Shock			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.14	4.78	3.78		
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.		5						Samples 11, 12, 13, 14, 15.	PTC			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.03	4.60	3.69		
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.		2						Samples 11, 12.	Mechanical Shock			NA	NA	NA		
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.		2						Samples 6, 7.	Vibration			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.03	4.39	3.61		
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.		2						IP6K9K. Samples 8, 9.	Enclosure Protection			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.09	4.29	3.55		
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						24kPa. Samples 11, 12.	Pressure Leak			NA	NA	NA		
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.		5						Samples 11, 12, 13, 14, 15.								
Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Au pin	0545	TR# 9518	MET									
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		4						Samples 1, 2, 3, 4, 5.								
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 1, 2, 3.	Pressure Leak	80H	18 TXL Ag rcpt Au pin	NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.	Dry Circuit			2.84	4.50	3.54		
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.		2						Samples 1, 2, 3.	Mechanical Shock			NA	NA	NA		
GMW3172 Section 5.4.1.2	Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.		2						Samples 1, 2, 3.	Vibration			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 1, 2, 3.	Dry Circuit			2.52	4.14	3.37		
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		4						Samples 1, 2, 3, 4, 5.	Thermal Shock			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.	Dry Circuit			3.05	4.41	3.62		
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.		4						Samples 1, 2, 3, 4, 5.	PTC			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.	Dry Circuit			2.98	4.19	3.43		
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						24kPa. Samples 1, 2, 3.	Pressure Leak			NA	NA	NA		
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.		4						Samples 1, 2, 3, 4, 5.								
Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Au pin	0545	TR# 9518	MET									
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		5						Samples 6, 7, 8, 9, 10.								
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 6, 7.	Pressure Leak	80H	18 TXL Ag rcpt Au pin	NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.	Dry Circuit			2.90	4.34	3.49		
GMW3172 Section 5.6.1	Humidity (Cyclic) Test	See Dry Circuit Resistance below.		5						Samples 6, 7, 8, 9, 10.	Humidity (Cyclic)			NA	NA	NA		
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.04	4.10	3.54		
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		5						Samples 6, 7, 8, 9, 10.	Thermal Shock			NA	NA	NA		

TEST PLAN				TEST REPORT						TEST DATA					
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	18 TXL Au rcpt Ag pin	MIN (°C)	MAX (°C)	AVG (°C)
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.83	4.79	3.50	
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	PTC		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.56	3.86	3.03	
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 6, 7.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.52	3.61	2.95	
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.70	4.25	3.07	
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 6, 7.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Ag pin	0545	TR# 9518	MET						
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 11, 12.	Pressure Leak	80H	18 TXL Au rcpt Ag pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.34	4.88	3.96	
GMW3172 Section 5.6.2	Humidity (Constant) Test	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	Humidity (Constant)		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.06	4.21	3.48	
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.34	5.52	3.98	
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	PTC		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.19	5.37	3.89	
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 11, 12.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		3.29	5.27	3.88	
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		3.31	4.52	3.82	
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 11, 12.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Ag pin	0545	TR# 9518	MET						
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	4						Samples 1, 2, 3, 4, 5.						
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 1, 2, 3.	Pressure Leak	80H	18 TXL Au rcpt Ag pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		3.02	4.39	3.55	
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 1, 2, 3.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2	Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.	2						Samples 1, 2, 3.	Vibration		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 1, 2, 3.	Dry Circuit		3.39	4.15	3.68	
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		3.08	6.29	3.76	
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	PTC		NA	NA	NA	

TEST PLAN				TEST REPORT						TEST DATA					
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	18 TXL Au rcpt Ag pin	MIN (°C)	MAX (°C)	AVG (°C)
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		3.05	6.53	3.45	
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 1, 2, 3.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	4						Samples 1, 2, 3, 4, 5.						
Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Ag pin	0545	TR# 9518	MET						
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 6, 7.	Pressure Leak	80H	18 TXL Au rcpt Ag pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.06	4.10	3.54
GMW3172 Section 5.6.1	Humidity (Cyclic) Test	See Dry Circuit Resistance below.	5						Samples 6, 7, 8, 9, 10.	Humidity (Cyclic)			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.20	4.18	3.56
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	Thermal Shock			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit			2.89	5.12	3.62
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	PTC			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit			2.69	4.42	3.23
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 6, 7.	Mechanical Shock			NA	NA	NA
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			2.80	4.26	3.26
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			2.68	4.23	3.15
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 6, 7.	Pressure Leak			NA	NA	NA
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Ag pin	0545	TR# 9518	MET						
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 11, 12.	Pressure Leak	80H	18 TXL Au rcpt Ag pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.13	5.25	3.86
GMW3172 Section 5.6.2	Humidity (Constant) Test	See Dry Circuit Resistance below.	5						Samples 11, 12, 13, 14, 15.	Humidity (Constant)			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.16	4.19	3.61
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	Thermal Shock			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.44	7.97	4.07
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	PTC			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.39	6.32	4.07
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 11, 12.	Mechanical Shock			NA	NA	NA
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.53	4.44	3.94
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.39	6.02	3.94
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 11, 12.	Pressure Leak			NA	NA	NA
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						

TEST PLAN				TEST REPORT					TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.				
				QTY	TYPE	GAUGE					TYPE	MIN (°C)	MAX (°C)	AVG (°C)	
Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group					
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		4						Samples 1, 2, 3, 4, 5.					
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 1, 2, 3.	TYPE	MIN (°C)	MAX (°C)	AVG (°C)	
											80H	18 TXL Au rcpt Au pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.			3.37	4.47	3.84
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.		2						Samples 1, 2, 3.			NA	NA	NA
GMW3172 Section 5.4.1.2	Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.		2						Samples 1, 2, 3.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 1, 2, 3.			3.62	4.33	3.89
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		4						Samples 1, 2, 3, 4, 5.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.			3.27	5.19	3.86
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.		4						Samples 1, 2, 3, 4, 5.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		4						Samples 1, 2, 3, 4, 5.			3.06	5.20	3.73
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						24kPa. Samples 1, 2, 3.			NA	NA	NA
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.		4						Samples 1, 2, 3, 4, 5.					
Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group					
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		5						Samples 6, 7, 8, 9, 10.					
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 6, 7.	TYPE	MIN (°C)	MAX (°C)	AVG (°C)	
											80H	18 TXL Au rcpt Au pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.			3.30	4.39	3.85
GMW3172 Section 5.6.1	Humidity (Cyclic) Test	See Dry Circuit Resistance below.		5						Samples 6, 7, 8, 9, 10.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.			3.47	4.56	3.90
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		5						Samples 6, 7, 8, 9, 10.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.			3.26	5.73	3.99
GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.		5						Samples 6, 7, 8, 9, 10.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 6, 7, 8, 9, 10.			2.84	5.61	3.51
GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.		2						Samples 6, 7.			NA	NA	NA
GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.		2						Samples 6, 7.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 6, 7, 8, 9, 10.			3.01	4.82	3.60
GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.		2						IP6K9K. Samples 8, 9.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		2						Samples 6, 7, 8, 9, 10.			2.82	4.92	3.39
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						24kPa. Samples 6, 7.			NA	NA	NA
GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.		5						Samples 6, 7, 8, 9, 10.					
Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group					
GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.		5						Samples 11, 12, 13, 14, 15.					
USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.		2						48kPa. Samples 11, 12.	TYPE	MIN (°C)	MAX (°C)	AVG (°C)	
											80H	18 TXL Au rcpt Au pin	NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.			3.58	4.69	4.02
GMW3172 Section 5.6.2	Humidity (Constant) Test	See Dry Circuit Resistance below.		5						Samples 11, 12, 13, 14, 15.			NA	NA	NA
GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.		5						Samples 11, 12, 13, 14, 15.			3.26	4.44	3.79
GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.		5						Samples 11, 12, 13, 14, 15.			NA	NA	NA

TEST PLAN				TEST REPORT						TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (°C)	MAX (°C)	AVG (°C)		
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.39	6.25	4.33	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	PTC		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit		3.71	6.05	4.25	
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 11, 12.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		3.81	5.29	4.31	
GMW3172 Section 5.8		Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K Samples 8, 9.	Enclosure Protection		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		3.62	5.61	4.08	
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 11, 12.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group - soldered crimps						
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	4						Samples 1, 2, 3, 4, 5.						
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 1, 2, 3.	Pressure Leak	80H	18 TXL Au rcpt Au pin	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		2.88	4.02	3.33	
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 1, 2, 3.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2		Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.	2						Samples 1, 2, 3.	Vibration		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 1, 2, 3.	Dry Circuit		3.01	3.89	3.39	
GMW3172 Section 5.5.5		Thermal Shock Test	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		2.88	4.12	3.48	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	4						Samples 1, 2, 3, 4, 5.	PTC		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	4						Samples 1, 2, 3, 4, 5.	Dry Circuit		2.82	3.61	3.15	
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 1, 2, 3.	Pressure Leak		NA	NA	NA	
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	4						Samples 1, 2, 3, 4, 5.						
Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group - soldered crimps						
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
USCAR-2 Section 5.6.6		Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 6, 7.	Pressure Leak	80H	18 TXL Au rcpt Au pin	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.72	4.00	3.37	
GMW3172 Section 5.6.1		Humidity (Cyclic) Test	See Dry Circuit Resistance below.	5						Samples 6, 7, 8, 9, 10.	Humidity (Cyclic)		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.85	3.85	3.25	
GMW3172 Section 5.5.5		Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	Thermal Shock		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		1.38	3.90	3.24	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 6, 7, 8, 9, 10.	PTC		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.28	3.16	2.67	
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 6, 7.	Mechanical Shock		NA	NA	NA	
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.24	3.05	2.54	
GMW3172 Section 5.8		Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K Samples 8, 9.	Enclosure Protection		NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit		2.32	3.10	2.68	

TEST PLAN				TEST REPORT						TEST DATA						
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (°C)	MAX (°C)	AVG (°C)		
	USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 6, 7.	Pressure Leak		NA	NA	NA	
	GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 6, 7, 8, 9, 10.						
Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Au rcpt Au pin	0545	TR# 9518	MET	Control Group - soldered crimps						
	GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
	USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						48kPa. Samples 11, 12.	Pressure Leak	80H	18 TXL Au rcpt Au pin	NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.12	4.09	3.62
	GMW3172 Section 5.6.2	Humidity (Constant) Test	See Dry Circuit Resistance below.	5						Samples 11, 12, 13, 14, 15.	Humidity (Constant)			NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			2.83	4.09	3.36
	GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	Thermal Shock			NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.09	4.26	3.65
	GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	5						Samples 11, 12, 13, 14, 15.	PTC			NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	5						Samples 11, 12, 13, 14, 15.	Dry Circuit			3.22	4.20	3.57
	GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	2						Samples 11, 12.	Mechanical Shock			NA	NA	NA
	GMW3172 Section 5.4.1.2	Vibration Test	See Dry Circuit Resistance Test below.	2						Samples 6, 7.	Vibration			NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.35	4.26	3.69
	GMW3172 Section 5.8	Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 8, 9.	Enclosure Protection			NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 6, 7, 8, 9, 10.	Dry Circuit			3.19	4.12	3.54
	USCAR-2 Section 5.6.6	Pressure Leak Test	When samples are subjected to positive pressure, there must be no loss in the applied pressure and no bubbles visible exiting any test sample.	2						24kPa. Samples 11, 12.	Pressure Leak			NA	NA	NA
	GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	5						Samples 11, 12, 13, 14, 15.						
PTC1 Connector PTC Leg 1 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0689	TR# 11099	MET							
	GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	9						Samples 1-9.						
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 1-9.	Dry Circuit	80H	18 TXL Ag-Ag	2.65	3.71	3.02
	GMW3172 Section 5.4.2	Mechanical Shock Test	Samples evaluated after Vibration Test.	6						Samples 1-6.	Mechanical Shock	80H	18 TXL Ag-Ag	NA	NA	NA
	GMW3172 Section 5.4.1.2	Vibration Test - Sprung Masses	See Dry Circuit Resistance Test below.	6						Samples 1-6.	Vibration	80H	18 TXL Ag-Ag	NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6						Samples 1-6.	Dry Circuit - Vibration Samples	80H	18 TXL Ag-Ag	2.58	3.60	2.98
	GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	9						Samples 1-9.	Thermal Shock	80H	18 TXL Ag-Ag	NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 1-9.	Dry Circuit	80H	18 TXL Ag-Ag	2.37	4.40	2.90
	GMW3172 Section 5.5.6	Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	9						Samples 1-9.	PTC	80H	18 TXL Ag-Ag	NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 1-9.	Dry Circuit	80H	18 TXL Ag-Ag	2.34	4.36	2.95
	GMW3191 Section 4.1	Post-Test Visual Examination	See General Note 2.	9						Samples 1-9.						
PTC2 Connector PTC Leg 2 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0689	TR# 11099	MET							
	GMW3191 Section 4.1	Pre-Test Visual Examination	See General Note 2.	9						Samples 10-18.						
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 10-18.	Dry Circuit	80H	18 TXL Ag-Ag	2.59	3.48	2.94
	GMW3172 Section 5.6.1	Humidity (Cyclic) Test	See Dry Circuit Resistance below.	9						Samples 10-18.	Humidity (Cyclic)	80H	18 TXL Ag-Ag	NA	NA	NA
	GMW3191 Section 4.17	Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 10-18.	Dry Circuit	80H	18 TXL Ag-Ag	2.40	3.39	2.77
	GMW3172 Section 5.5.5	Thermal Shock Test	See Dry Circuit Resistance Test below.	9						Samples 10-18.	Thermal Shock	80H	18 TXL Ag-Ag	NA	NA	NA

TEST PLAN				TEST REPORT					TEST DATA							
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE					TYPE	MIN (°C)	MAX (°C)	AVG (°C)		
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 10-18.	Dry Circuit	80H	18 TXL Ag-Ag	2.49	3.64	3.04
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	9						Samples 10-18.	PTC	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 10-18.	Dry Circuit	80H	18 TXL Ag-Ag	2.25	3.61	2.82
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	6						Samples 10-15.	Mechanical Shock	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	6						Samples 10-15.	Vibration	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6						Samples 10-15.	Dry Circuit - Vibration Samples	80H	18 TXL Ag-Ag	2.32	3.51	2.84
GMW3172 Section 5.8		Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 16-17.	Enclosure Protection	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 16-17.	Dry Circuit - Enclosure Samples	80H	18 TXL Ag-Ag	2.52	3.83	2.93
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	9						Samples 10-18.						
PTC3 Connector PTC Leg 3 - CSTRS0.R01 page 99				See Below	80H	18 TXL Ag rcpt Ag pin	0689	TR# 11099	MET							
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	9						Samples 19-27.						
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.57	3.54	2.93
GMW3172 Section 5.6.2		Humidity (Constant) Test	See Dry Circuit Resistance below.	9						Samples 19-27.	Humidity (Constant)	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.50	3.39	2.78
GMW3172 Section 5.5.5		Thermal Shock Test	See Dry Circuit Resistance Test below.	9						Samples 19-27.	Thermal Shock	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.39	4.28	2.92
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	See Dry Circuit Resistance Test below.	9						Samples 19-27.	PTC	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.32	4.60	2.89
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	6						Samples 19-24.	Mechanical Shock	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	6						Samples 19-24.	Vibration	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6						Samples 19-24.	Dry Circuit - Vibration Samples	80H	18 TXL Ag-Ag	2.41	3.96	2.87
GMW3172 Section 5.8		Enclosure Protection Test	See Dry Circuit Resistance Test below.	2						IP6K9K. Samples 25-26.	Enclosure Protection	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test - Enclosure Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	2						Samples 25-26.	Dry Circuit - Enclosure Samples	80H	18 TXL Ag-Ag	2.55	3.70	2.99
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	9						Samples 19-27.						
CE3 Connector SHELF LIFE TEST				See Below	80H	18 TXL Ag rcpt Ag pin	0689	TR# 14334	MET							
GMW3191 Section 4.1		Pre-Test Visual Examination	See General Note 2.	6						Samples 19-27.						
Per AS-34566-001		Mate Connector Halves once	See General Note 2.	6						Samples 19-27.						
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6					MET	Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.57	3.54	2.93
EIA Class IIIA		Unmate Receptacle Harness Assembly (Connector with Terminals) and Header and subject to 'Mixed Flow Gas' per EIA Class IIIA	None	6						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.57	3.54	2.93
Per AS-34566-001		Mate Connector Halves once	See General Note 2.	6						Samples 19-27.						
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6						Samples 25-26.	Dry Circuit - Enclosure Samples	80H	18 TXL Ag-Ag	2.55	3.70	2.99
GMW3172 Section 5.6.2		Humidity (Constant) Test	Monitored	6						Samples 19-27.	Humidity (Constant)	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6						Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.50	3.39	2.78
GMW3172 Section 5.4.2		Mechanical Shock Test (Samples 4, 5 and 6)	Samples evaluated after Vibration Test.	6					MET	Samples 19-24.	Mechanical Shock	80H	18 TXL Ag-Ag	NA	NA	NA
GMW3172 Section 5.4.1.2		Vibration Test (Samples 4,5 and 6)	See Dry Circuit Resistance Test below.	6					MET	Samples 19-24.	Vibration	80H	18 TXL Ag-Ag	NA	NA	NA

TEST PLAN				TEST REPORT					TEST DATA							
ITEM #	STANDARD	TEST DESCRIPTION	ACCEPTANCE CRITERIA	SAMPLES			DVPR #	TEST REPORT #	MET / NOT MET	REMARKS	Under "TYPE" in data table; 73A (XX), XX = number of circuits populated.					
				QTY	TYPE	GAUGE										
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples (Samples 4,5 and 6)	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6				MET	Samples 19-24.	Dry Circuit - Vibration Samples	80H	18 TXL Ag-Ag	2.41	3.96	2.87	
GMW3172 Section 5.5.5		Thermal Shock Test	Monitored	6				MET	Samples 19-27.	Thermal Shock	80H	18 TXL Ag-Ag	NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6				MET	Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.39	4.28	2.92	
GMW3172 Section 5.5.6		Power Temperature Cycle Test (PTC)	Monitored	9				MET	Samples 19-27.	PTC	80H	18 TXL Ag-Ag	NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	9				MET	Samples 19-27.	Dry Circuit	80H	18 TXL Ag-Ag	2.32	4.60	2.89	
GMW3172 Section 5.4.2		Mechanical Shock Test	Samples evaluated after Vibration Test.	6				MET	Samples 19-24.	Mechanical Shock	80H	18 TXL Ag-Ag	NA	NA	NA	
GMW3172 Section 5.4.1.2		Vibration Test	See Dry Circuit Resistance Test below.	6				MET	Samples 19-24.	Vibration	80H	18 TXL Ag-Ag	NA	NA	NA	
GMW3191 Section 4.17		Dry Circuit Resistance Test - Vibration Samples	0.64 terminal: R _{Total Connection} Dry Circuit ≤ 15 mΩ.	6				MET	Samples 19-24.	Dry Circuit - Vibration Samples	80H	18 TXL Ag-Ag	2.41	3.96	2.87	
GMW3191 Section 4.1		Post-Test Visual Examination	See General Note 2.	9					Samples 19-27.							