



PRODUCT SPECIFICATION

1.0 SCOPE

This product specification covers the 0.50 mm (0.0197 inch) terminal system on a 2.0mm (0.0787 inch) centerline (pitch) single row and dual row Mini 50 unsealed wire to board connection system terminated with 0.35mm² to 0.13mm² wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

2.2 ASSOCIATED TERMINALS

Product Name	Series
24 Way Right Angle Header Assembly	34826
20 Way Right Angle Header Assembly	34826
16 Way Right Angle Header Assembly	34826
12 Way Right Angle Header Assembly	34826
8 Way Right Angle Header Assembly	34793
4 Way Right Angle Header Assembly	34793
24 Way Vertical Header Assembly	34825
20 Way Vertical Header Assembly	34825
16 Way Vertical Header Assembly	34825
12 Way Vertical Header Assembly	34825
8 Way Vertical Header Assembly	34792
4 Way Vertical Header Assembly	34792
24 Way SMT Header Assembly	34897
20 Way SMT Header Assembly	34897
16 Way SMT Header Assembly	34897
12 Way SMT Header Assembly	34897
8 Way SMT Header Assembly	34912
4 Way SMT Header Assembly	34912
4 Way Receptacle Connector Assembly	34791
8 Way Receptacle Connector Assembly	34791
12 Way Receptacle Connector Assembly	34824

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Product Description	Vendor Part Number
Molex CTX 50 Small Grip Female Receptacle Terminal (.13mm ²)	560023-0421
Molex CTX 50 Medium Grip Female Receptacle Terminal (.22mm ²)	560023-0422
Molex CTX 50 Large Grip Female Receptacle Terminal (.35mm ²)	560023-0448

2.3 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Harness Housings: unfilled PBT
Header Housing: 30% glass fiber SPS
Pins: Copper alloy C26000
Tin Plating: Overall Tin with Nickel under-plate
CPA: 50% glass fiber PA66

2.4 SAFETY AGENCY APPROVALS

UL File Number	Not Applicable
CSA File Number	Not Applicable
TUV License number	Not Applicable

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3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Description	Document Number
4 & 8 way single row receptacle assembly sales drawing (charted)	SD-34791-001
12 way dual row receptacle assembly sales drawing (charted)	SD-34824-002
4 & 8 way vertical header assembly sales drawing (charted)	SD-34792-001
12 way vertical header assembly sales drawing (charted)	SD-34825-001
4 & 8 way right angle header assembly sales drawing (charted)	SD-34793-001
12 way right angle header assembly sales drawing (charted)	SD-34826-001
4 & 8 way SMT header assembly sales drawing (charted)	SD-34912-001
12 way SMT header assembly sales drawing (charted)	SD-34897-001
4 & 8 way harness sales drawing (charted)	DU5T-14489-CCA
12 way harness sales drawing (charted)	FU5T-14489-AA
Molex CTX 50 terminal sales drawing (charted)	SD-560023-002
Tray packaging specification (header only)	PK-31301-440
Tube packaging specification (header only)	PK-31301-688
Bulk packaging specification (receptacle assembly only)	PK-31301-538
Application specification	AS-34791-020

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4.0 RATINGS

4.1 VOLTAGE

500 VDC MAXIMUM; Per GMW3191, All measured isolation resistances shall be $>100\text{M}\Omega$.
 14 VDC MAXIMUM; Per NDS24012, An initial leak current of $\leq 10\mu\text{A}$ and a post endurance leak current of $\leq 1\text{mA}$.

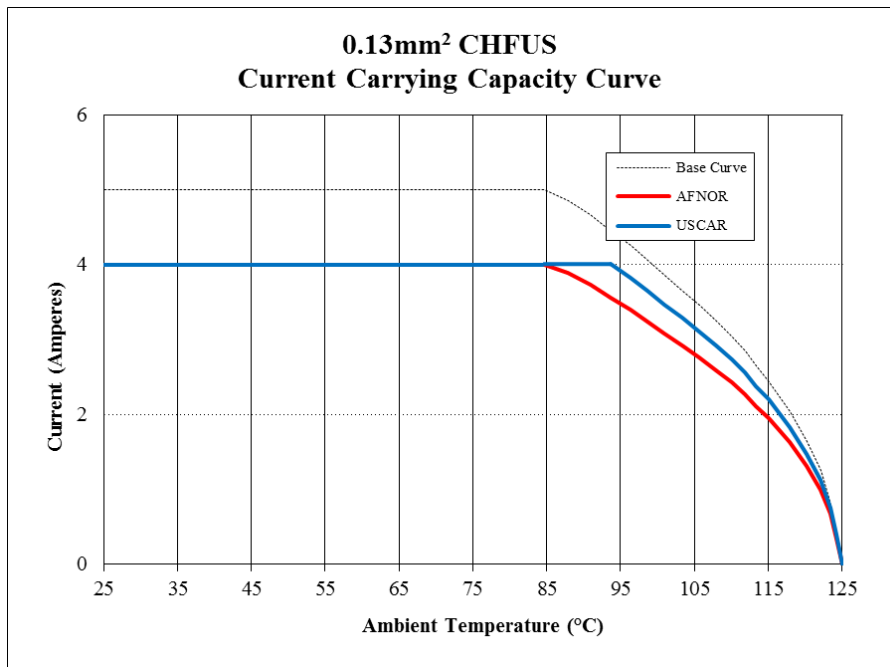
4.2 CURRENT AND APPLICABLE WIRES

Current is dependent on connector size, ambient temperature, blade size and related factors. Actual maximum current rating is application dependent and should be evaluated for each use.

The current listed below is expected to cause a temperature rise in the **terminal only, outside plastic.**

Wire section	Current	Wire range	Insulation Diameter
.35 mm ²	see derating curve	1.4 mm MAX	(0.055 inch)
.22 mm ²	see derating curve	1.2 mm MAX	(0.047 inch)
.13 mm ²	see derating curve	1.05 mm MAX	(0.041 inch)

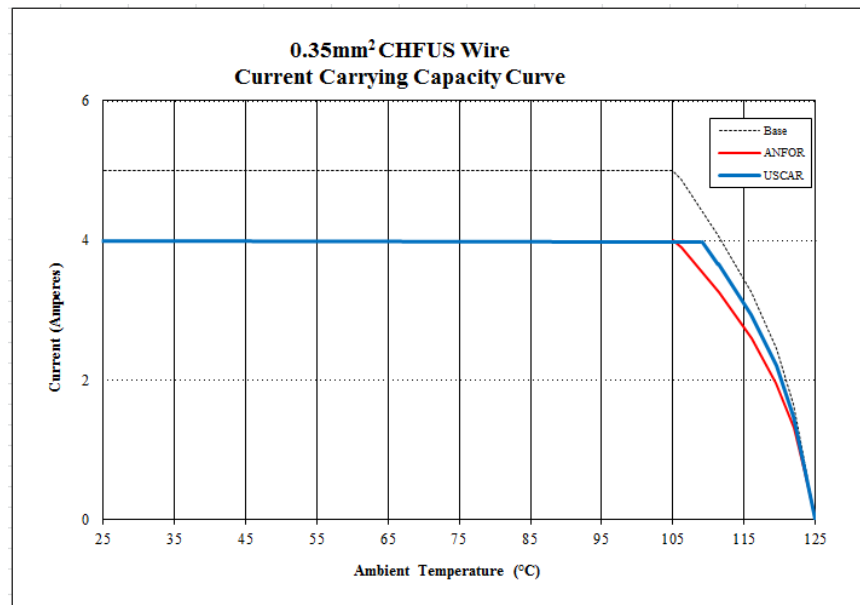
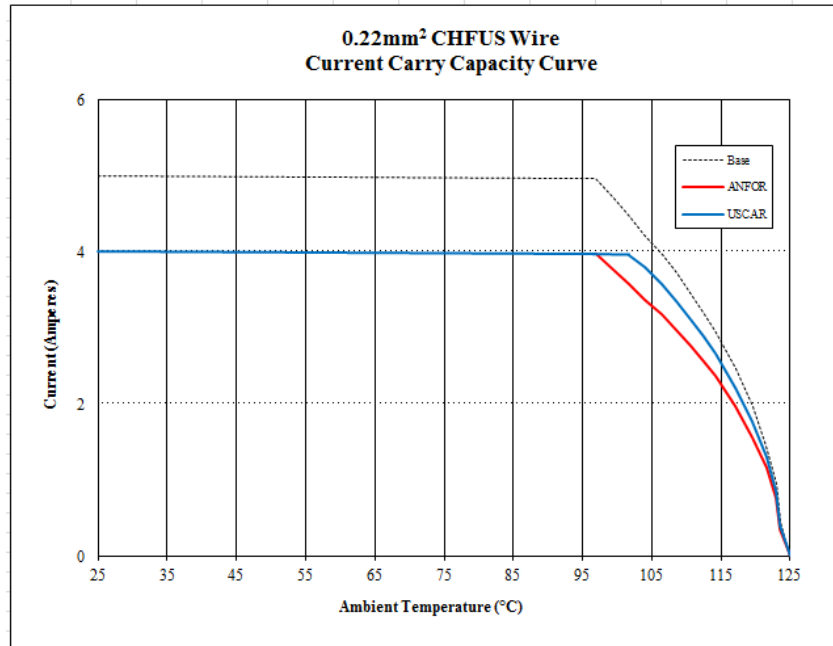
Derating Curves



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TEMPERATURE

Operating: - 40 C⁰ to + 105 C⁰
 Non-operating: - 40 C⁰ to + 105 C⁰

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5.0 PERFORMANCE

5.1 ELECTRICAL PERFORMANCE

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT										
1	Contact Resistance (Low Level)	Mate terminal: apply maximum voltage of 20 mV and a max current of 100 mA.	20 milliohms MAXIMUM										
2	Contact Resistance @ Rated Current (Voltage Drop)	Mate terminal: apply 3 A of current with a 0.35mm ² wire	20 milliohms MAXIMUM										
3	Isolation Resistance	Apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	100 Meg ohms MINIMUM										
4	Dielectric Strength	Apply an AC rms voltage of 1000V at 60 Hz across each adjacent cavity and between the terminals to ground	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.										
5	Current Carrying Capability	Mate terminal: Determine the heating curve by measuring the temperature after 1008 cycles (45 minutes ON and 15 minutes OFF per cycle).	Temperature not to exceed 55° over ambient										
6	Connector - Connector Overcurrent Loading	Pass the following current for the specified time below through only one circuit that is arbitrarily selected: (20awg) <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Current (Amps)</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>11.0</td> <td>60 Minutes</td> </tr> <tr> <td>13.5</td> <td>200 Seconds</td> </tr> <tr> <td>15.0</td> <td>5 Seconds</td> </tr> <tr> <td>20.0</td> <td>1 Second</td> </tr> </tbody> </table>	Current (Amps)	Time	11.0	60 Minutes	13.5	200 Seconds	15.0	5 Seconds	20.0	1 Second	Housing shall not start burning
Current (Amps)	Time												
11.0	60 Minutes												
13.5	200 Seconds												
15.0	5 Seconds												
20.0	1 Second												
7	Leak Current	Apply 1000V AC with frequencies 50 to 60Hz, having wave-form close to a sinusoidal, between terminals and between housing and terminals. Conditioning consists of exposure to 60±5°C and 90-95% humidity for one hour in a thermo-static and humido-static tank.	Initial Leak Current 10 microAmp MAXIMUM										
			Post Conditioning 1 milliAmp MAXIMUM										

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5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Connector Mate/ Unmate Forces	Mate and Unmate connector (male to female) at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	Mate Force 1.Housing: 20 Newtons MAXIMUM 2.Connector: a.Primary Lock Engaged 22 Newtons MAXIMUM (4 ckt) 35 Newtons MAXIMUM (8 ckt) 36 Newtons MAX (12 ckt) 38 Newtons MAX (16ckt) 47 Newtons MAX (20ckt) 57 Newtons MAX (24ckt) b. Primary Lock Disengaged 30 Newtons MAXIMUM 3.Terminal Partially Installed: 7 Newtons MINIMUM
			Unmate Force 1.Housing a. Primary Lock Disengaged 5 Newtons MAXIMUM b. Primary Lock engaged 110 Newtons MINIMUM 2.Connector a. Primary Lock Disengaged: <u>(4 & 8 Ckt):</u> 20 Newtons MAX Initial 25 Newtons MAX Post 10cycles <u>(12 Ckt):</u> 25 Newtons MAX Initial <u>(16 Ckt):</u> 34 Newtons MAX Initial <u>(20 Ckt):</u> 43 Newtons MAX Initial <u>(24 Ckt):</u> 55 Newtons MAX Initial b. Primary Lock Engaged With Wire Bundle Pull 75 Newtons MINIMUM
2	Locking Device Strength (Primary Lock Engaged)	After the 11 th mating apply a force to the test sample with the locking device engaged and hold constant for 10+2 seconds.	The force should be 100 Newtons MINIMUM

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3	Primary Lock Disengage Force (CPA Disengaged)	Apply a force to push on the lock mechanism and attempt to unmate the connection	30 Newtons MAXIMUM
4	Terminal Retention Force (in Housing-Dry as Molded)	Axial pullout force on the terminal in the housing at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	ISL in Pre-Lock 10 Newtons MINIMUM 5 Newtons MINIMUM Post Cycles
			ISL in Final-Lock 40 Newtons MINIMUM
5	Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	5 Newtons MAXIMUM
6	Forward Stop Force	Apply an axial insertion force on the terminal at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	50 Newtons Min.
7	Terminal - Engagement Force with ISL in Final-Lock	Apply an axial insertion force on the terminal at a rate of 50 ± 10 mm (2 ± ¼ inch) per minute.	30 Newtons Minimum
8	Connector Audible	The connector lock must provide audible feedback during connector mating by hand Ambient noise must be between 30 and 50 dB	4&8ckt: 45dB over Ambient (C scale) 12ckt: 36dB over Ambient
9	Terminal/Cavity Polarization 180° Misoriented	Connector and terminal must be polarized to prevent mating in improper direction	10 Newtons MINIMUM
10	Independent Secondary Lock (ISL) Engage Force	The force to insert the ISL from the pre-lock position to the final-lock position at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	ISL Insertion w/o terminals (pre to final lock): 5 Newtons MINIMUM
			ISL Insertion with terminals (pre to final lock): 40 Newtons MAXIMUM
			ISL Insertion with terminal partially installed: 40 Newtons MINIMUM
11	Independent Secondary Lock (ISL) Disengage Force	The force to completely disengage the ISL from final-lock position at a rate of 50 ± 5 mm (2 ± ¼ inch) per minute.	60 Newtons MAXIMUM
12	Header Pin Retention Force (in Vertical, Right Angle, &SMT Housing)	Axial pushout force on the terminal in the housing at a rate of 50 ± 10 mm (2 ± ¼ inch) per minute.	15 Newtons MINIMUM

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13	Insertion / Removal Feeling	Insert and remove the terminal or the connector, while checking the correctness of the insertion/removal feeling	Connector shall be free of detrimental cracking, rust, play, flaw, deformation, and other defects. Terminal shall be free of catching and / or other abnormality.
14	Connector Repetitive Mating/Unmating (Single Row)	Mate and Unmate connector (male to female) at a rate of about 100mm/min	<p>After 5cycles Mating force 20 Newtons Max (primary lock engaged) Unmating force 8 Newtons Min (primary lock disengaged)</p> <p>After 50cycles Voltage Drop 30 milliohms MAXIMUM Mating force 40 Newtons Max (primary lock engaged) Unmating force 10 Newtons Min (primary lock engaged)</p>
15	Connector Polarization Feature Effectiveness	Connector must be polarized to prevent mating with similar connectors - 0° Misorientation for all possible header and receptacle configurations	<p>240 Newton Minimum PolA_rec - PolB_hdr 12Ckt PolB_rec - PolA_hdr 12Ckt</p> <p>220 Newton Minimum PolA_rec - PolB_hdr 4Ckt PolB_rec - PolA_hdr 4Ckt PolC_rec - PolD_hdr 4Ckt PolD_rec - PolC_hdr 4Ckt PolA_rec - PolB_hdr 8Ckt PolB_rec - PolA_hdr 8Ckt</p> <p>200 Newton Minimum 16-20Ckt PolA_rec - PolB_hdr</p> <p>190 Newton Minimum 16-20Ckt PolB_rec - PolA_hdr</p> <p>115 Newton Minimum PolA_rec - PolC_hdr 12Ckt PolA_rec - PolC_hdr 12Ckt</p> <p>110 Newton Minimum PolA_rec - PolC_hdr 4Ckt PolA_rec - PolD_hdr 4Ckt PolC_rec - PolB_hdr 4Ckt</p>

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			<p>100 Newton Minimum PolC_recp - PolA_hdr 4Ckt PolD_recp - PolB_hdr 4Ckt PolB_recp - PolC_hdr 12Ckt</p> <p>95 Newton Minimum PolA_recp - PolC_hdr 8Ckt</p> <p>90 Newton Minimum PolB_recp - PolD_hdr 4Ckt PolB_recp - PolC_hdr 8Ckt</p> <p>80 Newton Minimum PolB_recp - PolC_hdr 4Ckt PolD_recp - PolA_hdr 4Ckt</p>
16	Pry Resistance	<p>A pair of connectors shall have one of them secured and the other inserted. Under these conditions, they shall be pried axially, rectangularity, front and rear and right and left around the top with a force of 78N After prying the connectors to two stages of fitting, pull them out. This is one cycle.</p> <p>Subject connectors to 10 cycles and Perform Contact Resistance @ Rated Current (Voltage Drop) and Connector Mate/Unmate Forces (Primary Lock Engaged), the mate/unmate speed shall be about 100 mm/min.</p>	<p>While being tested, the connectors shall not have any problem in being made electrically alive</p> <p>Voltage Drop 30 milliohms MAXIMUM</p> <p>Mate 20 Newtons MAXIMUM</p> <p>Unmate Primary Lock Engaged 20 Newtons MINIMUM</p>
17	Pry Resistance II	<p>Pull the female connector wire at a 45° angle in the direction which minimizes the male and female terminal contact at a speed of 5mm/min to 100N. Then decrease the pulling load at the same speed to 0N (No Force)</p>	<p>The waveform slope remained positive when increasing load during pulling and negative when decreasing load</p>
18	Connector Drop Test	<p>System Assembly (Mated & Fully populated) – Subject the assembly to a fall of 1 meter on each face, except for electrical wire side, onto a concrete floor</p>	<p>No damage or incipient rupture shall be observed.</p>
		<p>Connector Assembly (Unmated & Fully Populated) - Subject the assembly to a fall of 1 meter on each face, except for electrical wire side, onto a concrete floor</p>	<p>No damage or incipient rupture shall be observed.</p>

5.3 ENVIROMENTAL REQUIREMENTS

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ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT						
1	Durability	Mate connectors up to 10 cycles prior to environmental tests.	10 milliohms MAXIMUM						
2	Thermal Shock (Electrical)	Mate connectors per durability; expose to 300 cycles of: <table border="0"> <tr> <td><u>Temperature C°</u></td> <td><u>Duration (Minutes)</u></td> </tr> <tr> <td>-40 +0/-3</td> <td>30</td> </tr> <tr> <td>+105 +3/-0</td> <td>30</td> </tr> </table> Perform Contact Resistance (Low Level)	<u>Temperature C°</u>	<u>Duration (Minutes)</u>	-40 +0/-3	30	+105 +3/-0	30	Dry Circuit Resistance 20 milliohms MAXIMUM & Discontinuity < 1 microsecond
<u>Temperature C°</u>	<u>Duration (Minutes)</u>								
-40 +0/-3	30								
+105 +3/-0	30								
3	Thermal Shock (Physical)	Mate connectors per durability; expose to 300 cycles of: <table border="0"> <tr> <td><u>Temperature C°</u></td> <td><u>Duration (Minutes)</u></td> </tr> <tr> <td>-40 +0/-3</td> <td>30</td> </tr> <tr> <td>+105 +3/-0</td> <td>30</td> </tr> </table> Apply a voltage of 500 VDC per Isolation Resistance	<u>Temperature C°</u>	<u>Duration (Minutes)</u>	-40 +0/-3	30	+105 +3/-0	30	100 Meg ohms MINIMUM
		<u>Temperature C°</u>	<u>Duration (Minutes)</u>						
-40 +0/-3	30								
+105 +3/-0	30								
		Apply an AC rms voltage of 1000V at 60 Hz per 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	Thermal Shock (Mechanical)	Mate connectors per durability; expose to 1000 cycles of: <table border="0"> <tr> <td><u>Temperature C°</u></td> <td><u>Duration (Minutes)</u></td> </tr> <tr> <td>-40 +0/-3</td> <td>30</td> </tr> <tr> <td>+105 +3/-0</td> <td>30</td> </tr> </table> Unmate connector per Connector Mate/Unmate Forces	<u>Temperature C°</u>	<u>Duration (Minutes)</u>	-40 +0/-3	30	+105 +3/-0	30	Unmate w/latch 100 Newtons MINIMUM w/o terminals
		<u>Temperature C°</u>	<u>Duration (Minutes)</u>						
-40 +0/-3	30								
+105 +3/-0	30								
		Mate connectors per durability; expose to 1000 cycles of: <table border="0"> <tr> <td><u>Temperature C°</u></td> <td><u>Duration (Minutes)</u></td> </tr> <tr> <td>-40 +0/-3</td> <td>30</td> </tr> <tr> <td>+105 +3/-0</td> <td>30</td> </tr> </table> Extract terminal from housing per Terminal Retention Force (in Housing)	<u>Temperature C°</u>	<u>Duration (Minutes)</u>	-40 +0/-3	30	+105 +3/-0	30	TPA in Final-Lock 30 Newtons MINIMUM
<u>Temperature C°</u>	<u>Duration (Minutes)</u>								
-40 +0/-3	30								
+105 +3/-0	30								
5	Temperature/Humidity Cycling (Electrical)	Mate connectors per durability. Subject connector system to 10 cycles of: 60% RH 4 hours @ 23 C° ; 97% RH 10 hours @ 55 C° , 2 hour @ -40 C° ; 2 hours @ 105 C° Perform Contact Resistance (Low Level) Perform Contact Resistance @ Rated Current (Voltage Drop)	Dry Circuit Resistance 20 milliohms MAXIMUM Voltage Drop 20 milliohms MAXIMUM						

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6	Temperature/ Humidity Cycling (Physical)	Mate connectors per durability. Subject connector system to 10 cycles of: 60% RH 4 hours @ 23 C°; 97% RH 10 hours @ 55 C°, 2 hour @ -40 C°; 2 hours @ 105 C° Apply a voltage of 500VDC per Isolation Resistance	100 Meg ohms MINIMUM
		Apply an AC rms voltage of 1000V at 60 Hz per 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.
7	Temperature/ Humidity Cycling (Mechanical)	Mate connectors per durability. Subject connector system to 10 cycles of: 60% RH 4 hours @ 23 C°; 97% RH 10 hours @ 55 C°, 2 hour @ -40 C°; 2 hours @ 105 C° Unmate connector per Connector Mate/Unmate Forces (Connector Holding)	Unmate w/latch 100 Newtons MINIMUM w/o terminals
		Mate connectors per durability. Subject connector system to 10 cycles of: 60% RH 4 hours @ 23 C°; 97% RH 10 hours @ 55 C°, 2 hour @ -40 C°; 2 hours @ 105 C° Extract terminal from housing per Terminal Retention Force (in Housing)	TPA in Final-Lock 30 Newtons MINIMUM
8	High Temperature Exposure (Electrical)	Mate connectors per durability. Subject connector system to 105 C° for 1008 hours. Perform Contact Resistance (Low Level) Perform Contact Resistance @ Rated Current (Voltage Drop)	Dry Circuit Resistance 20 milliohms MAXIMUM Voltage Drop 20 milliohms MAXIMUM
9	High Temperature Exposure (Physical)	Mate connectors per durability. Subject connector system to 105 C° for 1008 hours. Apply a voltage of 500DC per Isolation Resistance post 1008 hours	100 Meg ohms MINIMUM
		Apply an AC rms voltage of 1000V at 60 Hz per 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.

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10	High Temperature Exposure (Mechanical)	Mate connectors per durability. Subject connector system to 105 C° for 1008 hours. Apply a force to wire bundle and pull on wire bundle in the following directions: Straight, +45° Vertical, -45° Vertical, +45° Horizontal, & -45° Horizontal	No breakage or electrical discontinuities at 60N or less		
		Mate connectors per durability. Subject connector system to 105 C° for 1008 hours. Extract terminal from housing per Terminal Retention Force (in Housing)	TPA in Final-Lock 30 Newtons MINIMUM		
10b	High Temperature Exposure (Mechanical) GM	Subject connector system to 105 C° for 1008 hours. Extract Terminal from housing post test..	TPA in Final-Lock 40 Newtons MINIMUM		
11	Chemical Resistance (Electrical)	Perform Contact Resistance (Low Level) .	No deformation or cracks shall be observed in connector Delta Dry Circuit Resistance 20 milliohms MAXIMUM Voltage Drop 20 milliohms MAXIMUM		
		Expose connectors to the following fluids for the specified duration of soak and dry time:			
		Resistance To Fluids:		Time / Temp. in Fluid	Time / Temp. Drying
		Automatic Transmission Oil:		15 Seconds @ 23°C	24 Hours @ 105°C
		Zinc Chloride:		15 Seconds @ 23°C	24 Hours @ 23°C
		Fuel:		7 Days @ 23°C	7 Days @ 23°C
		Engine Coolant:		5 Minutes @ 23°C	48 Hours @ 50°C
		Windshield Washer Fluid:		5 Minutes @ 23°C	48 Hours @ 50°C
		Perform Contact Resistance (Low Level) and Contact Resistance @ Rated Current (Voltage Drop) .			

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12	Chemical Resistance (Mechanical)	Expose connectors to the following fluids for the specified duration of soak and dry time:	No deformation or cracks shall be observed in connector Unmate w/latch (hand evaluation) shall show no signs of functional degradation. TPA in Final-Lock 30 Newtons MINIMUM															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Resistance To Fluids:</th> <th style="text-align: center;">Time / Temp. in Fluid</th> <th style="text-align: center;">Time / Temp. Drying</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Automatic Transmission Oil:</td> <td style="text-align: center;">15 Seconds @ 23°C</td> <td style="text-align: center;">24 Hours @ 105°C</td> </tr> <tr> <td style="text-align: center;">Zinc Chloride:</td> <td style="text-align: center;">15 Seconds @ 23°C</td> <td style="text-align: center;">24 Hours @ 23°C</td> </tr> <tr> <td style="text-align: center;">Fuel:</td> <td style="text-align: center;">7 Days @ 23°C</td> <td style="text-align: center;">7 Days @ 23°C</td> </tr> <tr> <td style="text-align: center;">Engine Coolant:</td> <td style="text-align: center;">5 Minutes @ 23°C</td> <td style="text-align: center;">48 Hours @ 50°C</td> </tr> <tr> <td style="text-align: center;">Windshield Washer Fluid:</td> <td style="text-align: center;">5 Minutes @ 23°C</td> <td style="text-align: center;">48 Hours @ 50°C</td> </tr> </tbody> </table>		Resistance To Fluids:	Time / Temp. in Fluid	Time / Temp. Drying	Automatic Transmission Oil:	15 Seconds @ 23°C	24 Hours @ 105°C	Zinc Chloride:	15 Seconds @ 23°C	24 Hours @ 23°C	Fuel:	7 Days @ 23°C	7 Days @ 23°C	Engine Coolant:	5 Minutes @ 23°C	48 Hours @ 50°C
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		Un-mate connector per Connector Mate/ Un-mate Forces. (Hand Evaluation) Extract terminal from housing per Terminal Retention Force (in Housing)																
13	Chemical Resistance (Physical)	Expose connectors to the following fluids for the specified duration of soak and dry time:	No deformation or cracks shall be observed in connector 100 Meg ohms MINIMUM															
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		Apply a voltage of 500 VDC per Isolation Resistance post 1008 hours																
		Apply an AC RMS voltage of 1000V at 60 Hz per 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.															

<u>REVISION:</u> F	<u>ECR/ECN INFORMATION:</u> EC No: UAU2015-0416 DATE: 2014 / 9 / 12	<u>TITLE:</u> 4, 8, 12, 16, 20, & 24 CKT MINI 50 CONNECTION ASSEMBLY	<u>SHEET No.</u> 14 of 15
<u>DOCUMENT NUMBER:</u> PS-34791-020	<u>CREATED / REVISED BY:</u> TREVOR MACHUGA	<u>CHECKED BY:</u> JAROD FISCHER	<u>APPROVED BY:</u> RON BAUMAN



PRODUCT SPECIFICATION

14	Solderability	Steam-age samples for 8 hours (Category 3), set at ambient for at least one hour, and its pins were dipped in ROL0 flux and lead-free solder per SMES-152 (Paragraph 5.3.4 Dip Coated) with an agitation of 10mm forward and backward. The solder temperature was 255°C per Molex BP5155. Criteria: SMES-152 Rev E Paragraph 5.4.1.	Solder coverage: 95% MINIMUM (per SMES-152)
15	IR Process Soldering	Molex IR Profile: ES-40000-5013 Maximum Temperature: 260°C	Dimensional: Conformance to Sales Drawing requirements & Visual: No Damage

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

7.0 GAGES AND FIXTURES

All applicable gages and fixtures are referenced in the appropriate control plans.

8.0 OTHER INFORMATION

Products conform to the following environmental ratings:

Temperature: 105°C

Vibration: On-Body (not coupled to engine)

Sealing: Un-Sealed

To ensure compliance with our product validation, it is imperative that our product meet the print dimensions. Any non-conformance with the true position of the PCB pins or mating interface will create performance failures that include; PCB installation, increased mate/unmate forces and electrical discontinuities.

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TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC

单击下面可查看定价，库存，交付和生命周期等信息

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