

Molex 43045-1620 PDF

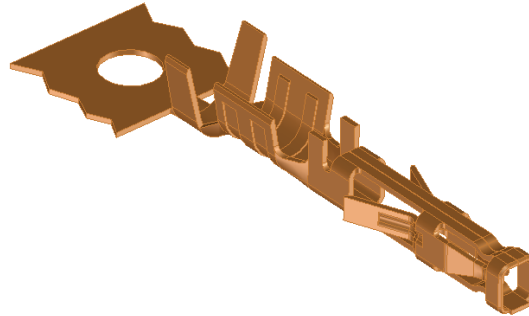
深圳创唯电子有限公司

<http://www.molex-connect.com>



TEST SUMMARY

LOW FORCE MICRO-FIT SERIES (46235)



1.0 SCOPE

This Test Summary covers the 3.00 mm (.118 inch) centerline (pitch) receptacles terminated with 46235 low force crimp terminals when mated with either printed circuit board (PCB) headers or plugs terminated with 20 to 30 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME, SERIES, AND PART NUMBER(S)

Micro-Fit (3.0) Receptacle Series : 43025, 43645, 44133 (BMI)

Micro-Fit (3.0) Plug Series : 43020, 43640, 44300 (BMI)

Micro-Fit (3.0) Right Angle & Vertical Header Series : 43045, 43650, 44067

Micro-Fit (3.0) Compliant Pin Vertical Header Series : 44914

Micro-Fit (3.0) Female Crimp Terminal Series : 46235

Micro-Fit (3.0) Male Crimp Terminal Series : 43031

2.1.1 SERIES NUMBERS TESTED

Micro-Fit (3.0) Receptacle : 43025

Micro-Fit (3.0) Plug : 43020

Micro-Fit (3.0) Right Angle & Vertical Headers : 43045

Micro-Fit (3.0) Female Crimp Terminal : 46235

Micro-Fit (3.0) Male Crimp Terminal : 43031

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Refer to the appropriate sales drawings for information on dimensions, materials, platings and markings.

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

Title: Product Specification for Micro-fit Low Mate Force Connector System

Document No.: PS-46235-001

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3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING SEQUENCES AND PROCEDURES

Reference Appendix 1

3.2 OTHER DOCUMENTS AND SPECIFICATIONS

SD-46235-001

PS-46235-001

4.0 QUALIFICATION

Laboratory conditions and sample selection are in accordance with EIA-364.

5.0 PERFORMANCE

5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS

(Note that measured LLCR values are for one mated interface)

DESCRIPTION	WIRE GAUGE	REQUIREMENT	AMPERAGE
Temperature Rise & Current Cycling	30 awg	30° C Max. Temperature Rise	2.5 amps (2 circuit)
	26 awg	30° C Max. Temperature Rise	3.0 amps (2 circuit)
	24 awg	30° C Max. Temperature Rise	4.0 amps (2 circuit)
	20 awg	30° C Max. Temperature Rise	5.5 amps (2 circuit)

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 1	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.83 mΩ	12.03 mΩ	13.28 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.03 mΩ	-0.40 mΩ	0.63 mΩ
		After Temp Life (240 hrs. @ 105°C)	20 mΩ MAXIMUM*	0.06 mΩ	-0.39 mΩ	0.61 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	0.07 mΩ	-0.32 mΩ	0.81 mΩ

* change from initial

WIRE TO WIRE						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 1	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.70 mΩ	11.82 mΩ	13.52 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.12 mΩ	-0.31 mΩ	0.78 mΩ
		After Temp Life (240 hrs. @ 105°C)	20 mΩ MAXIMUM*	0.13 mΩ	-0.27 mΩ	0.54 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	0.42 mΩ	-0.13 mΩ	1.86 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 2	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.99 mΩ	12.58 mΩ	13.51 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.01 mΩ	-0.33 mΩ	0.62 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	-0.15 mΩ	-0.48 mΩ	0.20 mΩ
		After Cyclic Temp and Humidity	20 mΩ MAXIMUM*	-0.14 mΩ	-0.51 mΩ	0.64 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	-0.03 mΩ	-0.39 mΩ	0.52 mΩ

* change from initial

WIRE TO WIRE						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 2	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	13.01 mΩ	12.53 mΩ	13.57 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.23 mΩ	-0.41 mΩ	0.66 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	0.11 mΩ	-0.34 mΩ	0.56 mΩ
		After Cyclic Temp and Humidity	20 mΩ MAXIMUM*	0.10 mΩ	-0.41 mΩ	0.51 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	-0.29 mΩ	-0.34 mΩ	0.97 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 3	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.94 mΩ	12.23 mΩ	13.61 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.02 mΩ	-0.51 mΩ	0.58 mΩ
		After Temp Life (120 hrs. @ 105°C)	20 mΩ MAXIMUM*	0.03 mΩ	-0.50 mΩ	0.35 mΩ
		Vibration	20 mΩ MAXIMUM*	0.04 mΩ	-0.29 mΩ	0.82 mΩ
		Mechanical Shock	20 mΩ MAXIMUM*	0.03 mΩ	-0.53 mΩ	0.34 mΩ

* change from initial

WIRE TO WIRE						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 3	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	13.05 mΩ	12.37 mΩ	13.71 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.15 mΩ	-0.25 mΩ	0.61 mΩ
		After Temp Life (120 hrs. @ 105°C)	20 mΩ MAXIMUM*	0.28 mΩ	-0.21 mΩ	0.76 mΩ
		Vibration	20 mΩ MAXIMUM*	0.44 mΩ	0.07 mΩ	0.93 mΩ
		Mechanical Shock	20 mΩ MAXIMUM*	0.47 mΩ	0.03 mΩ	1.72 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD, 15μ" Au						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
GROUP 4	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.94 mΩ	12.51 mΩ	13.53 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.03 mΩ	-0.52 mΩ	0.90 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	0.10 mΩ	-0.28 mΩ	1.31 mΩ
		After Mixed Flowing Gas Testing (7 days Unmated)	20 mΩ MAXIMUM*	1.11 mΩ	0.21 mΩ	4.92 mΩ
		After Mixed Flowing Gas Testing (3 days Mated)	20 mΩ MAXIMUM*	1.40 mΩ	0.26 mΩ	6.39 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	1.01 mΩ	-0.41 mΩ	33.45 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	0.88 mΩ	-0.17 mΩ	29.43 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD, 30μ" Au						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 4	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.80 mΩ	12.40 mΩ	13.34 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.02 mΩ	-0.42 mΩ	0.38 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	-0.01 mΩ	-0.42 mΩ	0.34 mΩ
		After Mixed Flowing Gas Testing (7 days Unmated)	20 mΩ MAXIMUM*	0.69 mΩ	-0.25 mΩ	2.61 mΩ
		After Mixed Flowing Gas Testing (3 days Mated)	20 mΩ MAXIMUM*	0.71 mΩ	0.08 mΩ	2.79 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	0.26 mΩ	-0.41 mΩ	1.53 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	0.60 mΩ	-0.30 mΩ	2.11 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO WIRE, 15μ" Au						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 4	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	13.05 mΩ	12.13 mΩ	14.26 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.01 mΩ	-0.35 mΩ	0.44 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	0.08 mΩ	-0.37 mΩ	0.46 mΩ
		After Mixed Flowing Gas Testing (7 days Unmated)	20 mΩ MAXIMUM*	2.07 mΩ	-0.52 mΩ	10.28 mΩ
		After Mixed Flowing Gas Testing (3 days Mated)	20 mΩ MAXIMUM*	1.61 mΩ	0.41 mΩ	5.39 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	3.23 mΩ	0.28 mΩ	33.62 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	2.67 mΩ	0.20 mΩ	12.65 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO WIRE, 30μ" Au						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 4	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.63 mΩ	12.00 mΩ	13.38 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.14 mΩ	-0.31 mΩ	0.62 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	0.07 mΩ	-0.39 mΩ	0.55 mΩ
		After Mixed Flowing Gas Testing (7 days Unmated)	20 mΩ MAXIMUM*	1.05 mΩ	0.05 mΩ	5.01 mΩ
		After Mixed Flowing Gas Testing (3 days Mated)	20 mΩ MAXIMUM*	1.10 mΩ	0.08 mΩ	7.13 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	0.86 mΩ	-0.03 mΩ	8.26 mΩ
		After Reseating (3x M/U)	20 mΩ MAXIMUM*	1.34 mΩ	0.23 mΩ	3.88 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

(Note that measured LLCR values are for one mated interface)

WIRE TO BOARD						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 5	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.90 mΩ	12.39 mΩ	13.34 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.06 mΩ	-0.31 mΩ	0.70 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	0.27 mΩ	-0.15 mΩ	1.08 mΩ
		After Thermal Cycling	20 mΩ MAXIMUM*	-0.03 mΩ	-0.37 mΩ	0.63 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	0.12 mΩ	-0.37 mΩ	0.61 mΩ

* change from initial

WIRE TO WIRE						
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
G R O U P 5	Contact Resistance (Low Level)	Initial	13.0 mΩ Nominal no limit set	12.81 mΩ	12.00 mΩ	13.62 mΩ
		After Initial Durability (Preconditioning) (25 cycles)	20 mΩ MAXIMUM*	0.08 mΩ	-0.50 mΩ	0.62 mΩ
		After Temp. Life (120 hrs. @ 105 C)	20 mΩ MAXIMUM*	0.22 mΩ	-0.62 mΩ	0.84 mΩ
		After Thermal Cycling	20 mΩ MAXIMUM*	0.23 mΩ	-0.48 mΩ	0.85 mΩ
		After Thermal Shock	20 mΩ MAXIMUM*	0.35 mΩ	-0.54 mΩ	1.42 mΩ

* change from initial

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

15μ" Au – 40 cycles				
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	RESULTS
G R O U P 7	Dielectric Withstanding Voltage (DWV)	Durability (40 M/U cycles) 2200 VAC	No breakdown or flashover	PASS

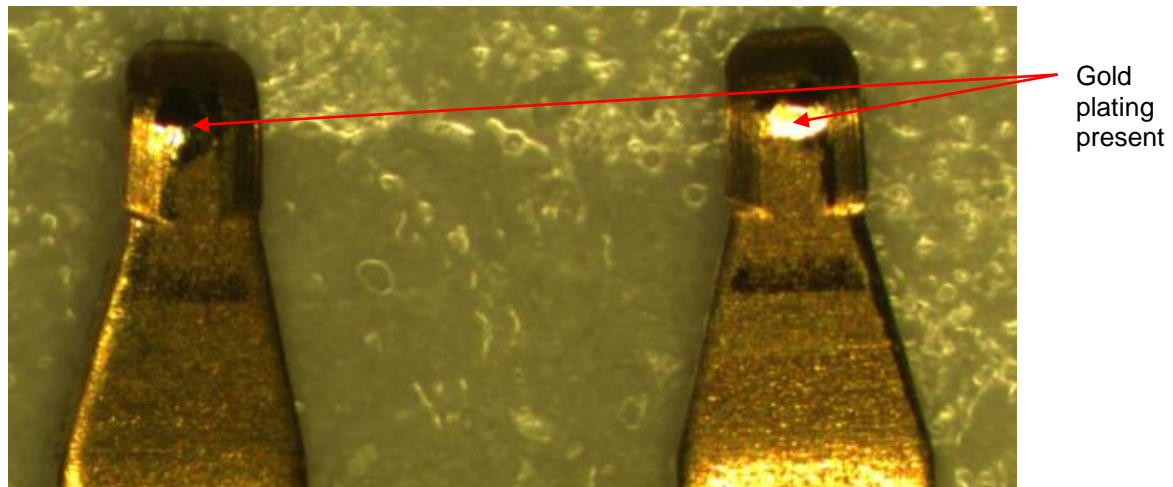


Figure 1 – Contact area shown after 40 cycles

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5.1 ELECTRICAL/ENVIRONMENTAL PERFORMANCE RESULTS (cont)

15μ" Au – 250 cycles (lubricated)				
ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	RESULTS
G R O U P 7	Dielectric Withstanding Voltage (DWV)	Durability (250 M/U cycles) 2200 VAC	No breakdown or flashover	PASS

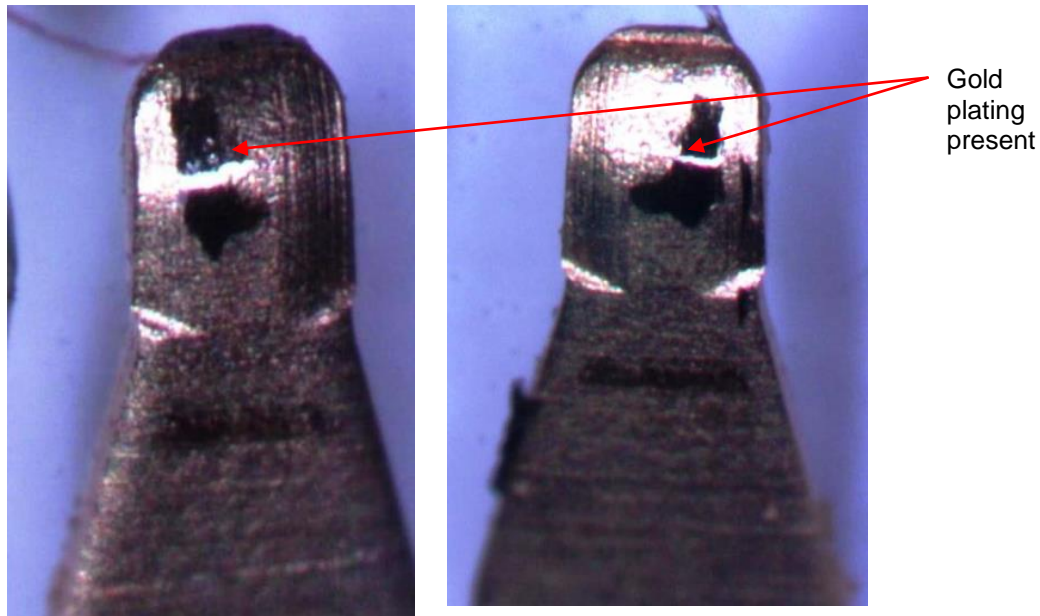


Figure 3 – Contact area shown after 250 cycles

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5.2 MECHANICAL PERFORMANCE RESULTS

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1a	2 circuit Connector Mate and Unmate Forces (W-B, 15 μ " Au) <i>**thumb latch removed**</i>	Initial Mating	8.0 N maximum	5.52 N	3.81 N	6.88 N
		Initial Un-Mating	4.0 N maximum	2.93 N	2.43 N	3.57 N
		Final Mating (after 40 cycles)	8.0 N maximum	4.71 N	3.40 N	5.30 N
		Final Un-Mating (after 40 cycles)	4.0 N maximum	3.51 N	1.63 N	4.06 N
1b	2 circuit Connector Mate and Unmate Forces (W-W, 15 μ " Au) <i>**thumb latch removed**</i>	Initial Mating	8.0 N maximum	5.03 N	4.67 N	5.46 N
		Initial Un-Mating	4.0 N maximum	2.30 N	2.13 N	2.58 N
		Final Mating (after 40 cycles)	8.0 N maximum	3.59 N	3.27 N	3.87 N
		Final Un-Mating (after 40 cycles)	4.0 N maximum	2.32 N	2.10 N	2.51 N
1c	12 circuit Connector Mate and Unmate Forces (W-B, 15 μ " Au) <i>**thumb latch removed**</i>	Initial Mating	48.0 N maximum	15.32 N	13.78 N	17.00 N
		Initial Un-Mating	24.0 N maximum	9.79 N	7.83 N	13.15 N
		Final Mating (after 40 cycles)	48.0 N maximum	16.81 N	14.74 N	20.44 N
		Final Un-Mating (after 40 cycles)	24.0 N maximum	13.76 N	11.22 N	16.38 N
1d	12 circuit Connector Mate and Unmate Forces (W-W, 15 μ " Au) <i>**thumb latch removed**</i>	Initial Mating	48.0 N maximum	29.39 N	21.65 N	34.27 N
		Initial Un-Mating	24.0 N maximum	18.10 N	13.22 N	21.98 N
		Final Mating (after 40 cycles)	48.0 N maximum	24.12 N	19.84 N	28.23 N
		Final Un-Mating (after 40 cycles)	24.0 N maximum	19.69 N	14.57 N	23.78 N

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5.2 MECHANICAL PERFORMANCE RESULTS (cont)

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1e	24 circuit Connector Mate and Unmate Forces (W-B, 15μ" Au) <i>**thumb latch removed**</i>	Initial Mating	96.0 N maximum	37.93 N	33.42 N	42.50 N
		Initial Un-Mating	48.0 N maximum	21.82 N	19.98 N	23.35 N
		Final Mating (after 40 cycles)	96.0 N maximum	34.04 N	31.42 N	36.26 N
		Final Un-Mating (after 40 cycles)	48.0 N maximum	25.35 N	23.77 N	27.13 N
1f	24 circuit Connector Mate and Unmate Forces (W-W, 15μ" Au) <i>**thumb latch removed**</i>	Initial Mating	96.0 N maximum	52.61 N	47.20 N	61.89 N
		Initial Un-Mating	48.0 N maximum	29.87 N	27.53 N	32.68 N
		Final Mating (after 40 cycles)	96.0 N maximum	43.80 N	40.78 N	45.15 N
		Final Un-Mating (after 40 cycles)	48.0 N maximum	36.45 N	32.49 N	39.52 N

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5.2 MECHANICAL PERFORMANCE RESULTS (cont)

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
2	Terminal Retention Force (in housing)	-----	24.5 N per contact minimum	36.4 N	35.4 N	37.9 N
3	Terminal Insertion Force (in housing)	-----	14.7 N per contact maximum	2.9 N	2.2 N	4.2 N
4	Wire Pullout Force (from terminal)	20 awg	57.8 N minimum	107.4 N	97.0 N	116.0 N
		22 awg	35.6 N minimum	80.7 N	71.8 N	86.0 N
		24 awg	22.2 N minimum	50.45 N	46.0 N	56.0 N
		26 awg	13.3 N minimum	28.7 N	24.0 N	31.0 N
		28 awg	8.9 N minimum	17.1 N	15.0 N	19.0 N
		30 awg	6.6 N minimum	9.4 N	9.0 N	10.0 N
5	Normal Force (nominal deflection)	Initial	50 g per contact beam minimum	134.8 g	120.8 g	143.3 g
		After one cycle	50 g per contact beam minimum	134.3 g	121.8 g	143.6 g

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6.0 APPENDIX 1

6.1 TEST SEQUENCES

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 7
Visual Exam	Visual Exam	Visual Exam	Visual Exam	Visual Exam	Visual Exam
LLCR	LLCR	LLCR	LLCR	LLCR	LLCR
Preconditioning Durability (25 M/U cycles)	Preconditioning Durability (25 M/U cycles)	Preconditioning Durability (25 M/U cycles)	Preconditioning Durability (25 M/U cycles)	Preconditioning Durability (25 M/U cycles)	Durability (40 M/U cycles)
LLCR	LLCR	Temp Life (120 hrs @ 105°)	LLCR	LLCR	LLCR
Temp Life (240 hrs @ 105°)	Thermal Shock	LLCR	Temp Life (120 hrs @ 105°)	Temp Life (120 hrs @ 105°)	DWV
LLCR	LLCR	Vibration	LLCR	LLCR	Visual Exam
Reseating	Cyclic Temp and Humidity	LLCR	MFG (7 days Unmated)	Thermal Cycling	
LLCR	LLCR	Mechanical Shock	LLCR	LLCR	
	Reseating	LLCR	MFG (3 days Mated)	Thermal Shock	
	LLCR		LLCR	LLCR	
			Thermal Shock	Reseating	
			LLCR	LLCR	
			Reseating		
			LLCR		

REVISION: D1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 / 19	TITLE: TEST SUMMARY FOR 46235 LOW FORCE MICRO-FIT CONNECTOR SYSTEM	SHEET No. 16 of 18
DOCUMENT NUMBER: TS-46235-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH



TEST SUMMARY

6.2 TEST PROCEDURES

<u>ITEM</u>	<u>TEST CONDITION</u>
LOW LEVEL CONTACT RESISTANCE (LLCR)	per EIA-364-TP-23
INITIAL MATING FORCE	per EIA-364-TP-13
INITIAL UN-MATING FORCE	per EIA-364-TP-13
DURABILITY	per EIA-364-TP-09
RANDOM VIBRATION	per EIA-364-TP-28, Test Cond. VII
MECHANICAL SHOCK	per EIA-364-TP-27 Peak Value: 50 G; Duration: 11 mSec.; Waveform: Half Sine; # Shocks Direction: 3 shocks/3 axes (18 total)
NORMAL FORCE	per EIA-364-04 (perpendicular force)
THERMAL AGING (Temp life)	per EIA-364-TP-17, method A
THERMAL SHOCK	per EIA-364-TP-32
CYCLIC HUMIDITY	per EIA-364-TP-31 Test Temp: +40° ± 2° C Relative Humidity: 90 to 95%; Test Duration: 96 hours
MIXED FLOWING GAS (MFG)	per EIA-364-TP-65, Option 2, Class IIA
Dielectric Withstanding Voltage (DWV)	per EIA-364-TP-20 Method B
Insulation Resistance	per EIA-364-TP-21
Current Carrying Capacity (CCC)	per EIA-364-TP-70 Method 2

REVISION: D1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 / 19	TITLE: TEST SUMMARY FOR 46235 LOW FORCE MICRO-FIT CONNECTOR SYSTEM	SHEET No. 17 of 18
DOCUMENT NUMBER: TS-46235-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH



TEST SUMMARY

7.0 REVISION HISTORY

Revision Level:	Created / Revised By:	Revision Description:	Date of Revision
A	T. Gregori	Initial "A" Release	7/09/08
B	T. Gregori	Revised Group 4 data based on test results, section 5.1	7/28/08
C	T. Gregori	T-Rise table added; Group 7 250 cycle table added	11/20/08
D	T. Gregori	Revised mate / un-mate force; added total forces for 2, 12 and 24 ckts (items 1a thru 1f)	8/5/09
D1	JDFOX	Add series detail to sections 2.1 & 2.1.1	10/19/16

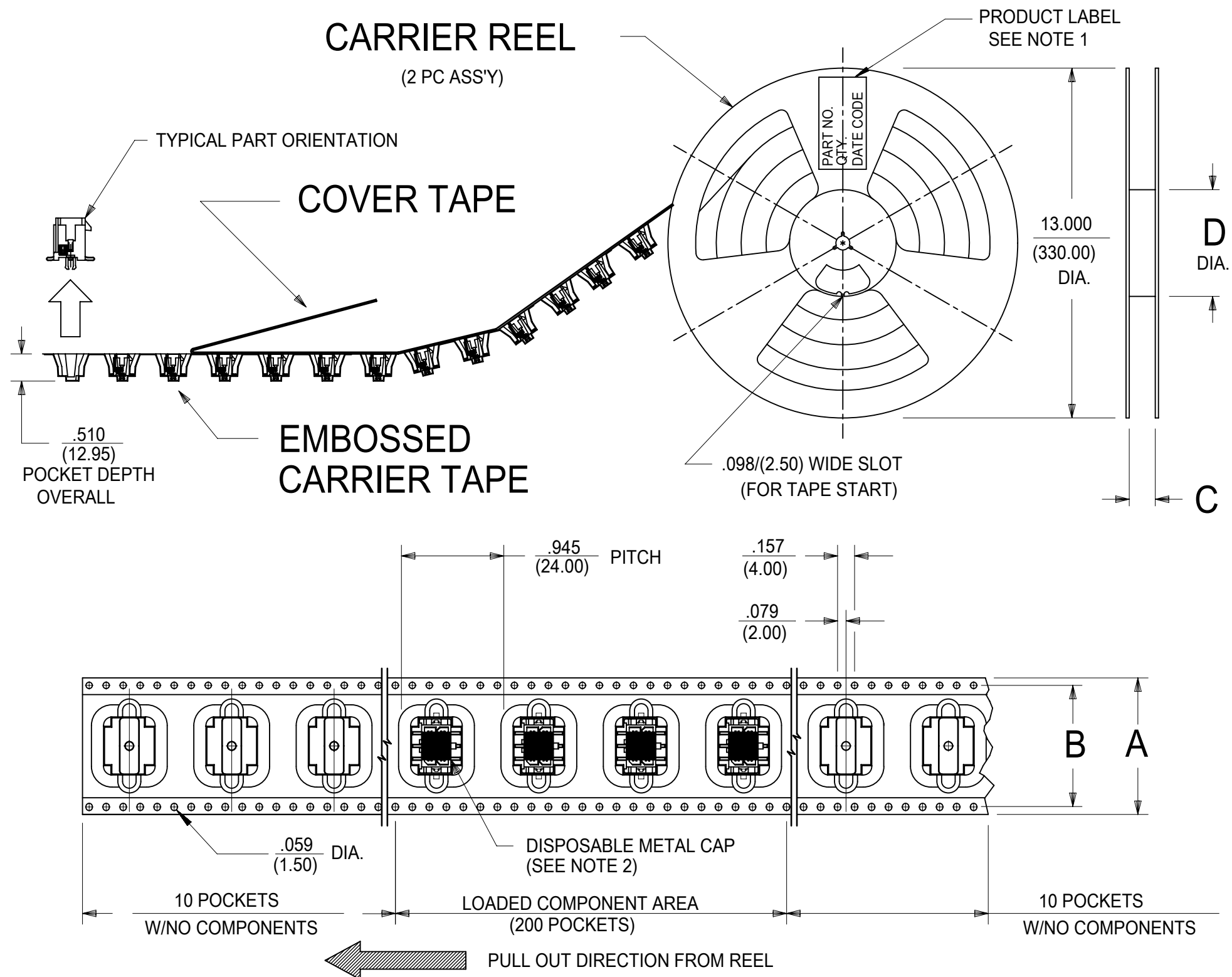
REVISION: D1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 / 19	TITLE: TEST SUMMARY FOR 46235 LOW FORCE MICRO-FIT CONNECTOR SYSTEM	SHEET No. 18 of 18
DOCUMENT NUMBER: TS-46235-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

TAPE AND REEL SPECIFICATIONS FOR VERTICAL SURFACE MOUNT MICRO-FIT (3.0) (WITH VACUUM CAP)

PACKAGING ITEM NO.	ASSEMBLY ITEM NO.	CARRIER ITEM NO.	CKT. SIZE	PARTS PER REEL	REELS/CARTON	SPQ PARTS PER CARTON	COVER TAPE ITEM NO.	CARRIER REEL/HALF ITEM NO.	CARRIER REEL/HALF ITEM NO.	DIM A	DIM B	DIM C	DIM D
70873-0552	43045-	70180-2752	2	200	9	1800	43655-0001	70180-6501	70180-6501	1.260/(32.00)	1.118/(28.40)	.961/(24.40)	3.937/(100.00)
70873-0554	43045-	70180-2754	4	200	9	1800	43655-0001	70180-6501	70180-6501	1.260/(32.00)	1.118/(28.40)	1.276/(32.40)	3.937/(100.00)
70873-0556	43045-	70180-2756	6	200	9	1800	43655-0001	70180-6501	70180-6501	1.260/(32.00)	1.118/(28.40)	1.276/(32.40)	3.937/(100.00)
70873-0558	43045-	70180-2758	8	200	7	1400	43655-0002	70180-6501	70180-6502	1.732/(44.00)	1.591/(40.40)	1.748/(44.40)	3.937/(100.00)
70873-0560	43045-	70180-2760	10	200	7	1400	43655-0002	70180-6501	70180-6502	1.732/(44.00)	1.591/(40.40)	1.748/(44.40)	3.937/(100.00)
70873-0562	43045-	70180-2762	12	200	7	1400	43655-0002	70180-6501	70180-6502	1.732/(44.00)	1.591/(40.40)	1.748/(44.40)	3.937/(100.00)
70873-0564	43045-	70180-2764	14	200	7	1400	43655-0002	70180-6501	70180-6502	1.732/(44.00)	1.591/(40.40)	1.748/(44.40)	3.937/(100.00)
70873-0566	43045-	70180-2766	16	200	7	1400	43655-0002	70180-6501	70180-6502	1.732/(44.00)	1.591/(40.40)	1.748/(44.40)	3.937/(100.00)
70873-0568	43045-	70180-2768	18	200	5	1000	43655-0003	70180-6502	70180-6502	2.205/(56.00)	2.063/(52.40)	2.220/(56.40)	3.937/(100.00)
70873-0570	43045-	70180-2770	20	200	5	1000	43655-0003	70180-6502	70180-6502	2.205/(56.00)	2.063/(52.40)	2.220/(56.40)	3.937/(100.00)
70873-0572	43045-	70180-2772	22	200	5	1000	43655-0003	70180-6502	70180-6502	2.205/(56.00)	2.063/(52.40)	2.220/(56.40)	3.937/(100.00)
70873-0574	43045-	70180-2774	24	200	5	1000	43655-0003	70180-6502	70180-6502	2.205/(56.00)	2.063/(52.40)	2.220/(56.40)	3.937/(100.00)

NOTES:

- 1) SEE DRAWING 708730000-PK FOR ADDITIONAL PACKAGING INFORMATION AND REQUIREMENTS, INCLUDING LABEL PLACEMENT.
- 2) A DISPOSABLE METAL CAP LOCATED AT HEADER MIDPOINT IS USED AS A SUITABLE SURFACE FOR VACUUM PICK UP. SEE AS-43555-001.
- 3) ALL DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
- 4) ESD PROTECTION: CARRIER TAPE, COVER TAPE, AND REEL MEET STATIC DISSIPATIVE PROPERTIES FOR SURFACE RESISTANCE PER ESD ASSOCIATION STANDARD S541.



THIS DRAWING REPLACED PK-70873-05** SHEET 2 AND SHEET 3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: STANDARDIZED NOTES					
∇ = 0	IN/MM	NTS		EC NO: 605266 DRWN: SALHAMY 2018/07/11 CHK'D: SSOUSEK 2019/01/04 APPR: FSMITH 2019/01/05 INITIAL REVISION: DRWN: BAP 1995/03/16 APPR: RJF 1995/03/16 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIRD ANGLE PROJECTION DRAWING SERIES C-SIZE 43045							
∇ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)										
∇ = 1	MM	INCH									
S = 0	4 PLACES	±	±								
∇ = 0	3 PLACES	±	±								
∇ = 0	2 PLACES	±	±								
∇ = 0	1 PLACE	±	±								
∇ = 0	0 PLACES	±	±								
∇ = 0	ANGULAR TOL ± 0.5 °										
∇ = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION					
430450002-PK		PDD		000		A					
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER							
SEE CHART		GENERAL MARKET		1 OF 1							

DOCUMENT STATUS	P1	RELEASE DATE	2019/01/05	18:20:12
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Micro-Fit (3.0) Connector System (Wire to Wire & Wire to Board)

1.0 SCOPE

This Test Specification covers the 3.00 mm (.118 inch) centerline (pitch) connector series terminated with 20-30 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME, SERIES, AND PART NUMBER(S)

Micro-Fit (3.0) Receptacle Series : 43025, 43645, 44133 (BMI)
 Micro-Fit (3.0) Plug Series : 43020, 43640, 44300 (BMI)
 Micro-Fit (3.0) Right Angle & Vertical Header Series : 43045, 43650, 44067
 Micro-Fit (3.0) Compliant Pin Vertical Header Series : 44914
 Micro-Fit (3.0) Female Crimp Terminal Series : 43030
 Micro-Fit (3.0) Male Crimp Terminal Series : 43031
 Micro-Fit (3.0) Female Crimp Terminal with Lubricant : 45773

2.1.1 SERIES NUMBERS TESTED

Micro-Fit (3.0) Receptacle : 43025
 Micro-Fit (3.0) Plug : 43020
 Micro-Fit (3.0) Right Angle & Vertical Headers : 43045
 Micro-Fit (3.0) Female Crimp Terminal : 43030
 Micro-Fit (3.0) Male Crimp Terminal : 43031

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for information on dimensions, materials, plating, and markings.

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

Product Specification Micro-Fit Dual Row Connectors
 Document Number: PS-43045
 Product Specification Micro-Fit Single Row Connectors
 Document Number: PS-43650
 Product Specification Micro-Fit (3.0) BMI Floating Connector System
 Document Number: PS-44300-001

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES AND SEQUENCES

EIA-364-1000.01

<u>REVISION:</u> A2	<u>ECR/ECN INFORMATION:</u> EC No: 109530 DATE: 2016 / 10 /18	<u>TITLE:</u> TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	<u>SHEET No.</u> 1 of 10
<u>DOCUMENT NUMBER:</u> TS-43045-001		<u>CREATED / REVISED BY:</u> JDFOX	<u>CHECKED BY:</u> SSOUSEK
		<u>APPROVED BY:</u> FSMITH	

3.2 OTHER DOCUMENTS AND SPECIFICATIONS

None

4.0 QUALIFICATION

Laboratory conditions and sample selection are in accordance with **EIA-364**.

5.0 PERFORMANCE RESULTS

5.1 ELECTRICAL PERFORMANCE RESULTS

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1A	CONTACT RESISTANCE (LOW LEVEL)	Initial **	10 milliohms MAXIMUM	19.95 mΩ	19.74 mΩ	20.40 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	-0.23 mΩ	-0.03 mΩ	0.67 mΩ
		After Temperature Life Δ mΩ	20 milliohms MAXIMUM	0.38 mΩ	0.08 mΩ	1.01 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	0.25 mΩ	-0.53 mΩ	1.32 mΩ

NOTE : ** APPROXIMATELY 16.6 mΩ OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE 13 INCHES OF WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1B	CONTACT RESISTANCE (LOW LEVEL)	Initial	10 milliohms MAXIMUM	4.75 mΩ	4.55 mΩ	4.98 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	-0.23 mΩ	-0.03 mΩ	0.67 mΩ
		After Temperature Life Δ mΩ	20 milliohms MAXIMUM	0.38 mΩ	0.08 mΩ	1.01 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	0.25 mΩ	-0.53 mΩ	1.32 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE DESCRIPTION.

REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 2 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
2A	Contact Resistance (Low Level)	Initial **	10 milliohms MAXIMUM	20.01 mΩ	19.59 mΩ	23.29 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.19 mΩ	-0.02 mΩ	0.64 mΩ
		After Thermal Shock Δ mΩ	20 milliohms MAXIMUM	0.34 mΩ	0.08 mΩ	0.74 mΩ
		After Cyclic Humidity Δ mΩ	20 milliohms MAXIMUM	0.62 mΩ	0.14 mΩ	1.77 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	0.61 mΩ	0.11 mΩ	3.09 mΩ

NOTE : ** APPROXIMATELY 16.6 mΩ OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE 13 INCHES OF WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
2B	Contact Resistance (Low Level)	Initial	10 milliohms MAXIMUM	4.75 mΩ	4.55 mΩ	4.98 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.42 mΩ	-0.02 mΩ	2.03 mΩ
		After Thermal Shock Δ mΩ	20 milliohms MAXIMUM	1.56 mΩ	0.25 mΩ	5.71 mΩ
		After Cyclic Humidity Δ mΩ	20 milliohms MAXIMUM	1.28 mΩ	0.15 mΩ	4.60 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	2.19 mΩ	0.23 mΩ	8.04 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE DESCRIPTION

REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 3 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO BOARD CONFIGURATION – 2 CIRCUIT VERSION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
3A	Contact Resistance (Low Level)	Initial **	10 milliohms MAXIMUM	10.26 mΩ	10.17 mΩ	10.46 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.75 mΩ	0.16 mΩ	1.57 mΩ
		After Temperature Life Pre-Conditioned Δ mΩ	20 milliohms MAXIMUM	1.88 mΩ	0.58 mΩ	3.77 mΩ
		After Vibration Δ mΩ	20 milliohms MAXIMUM	1.28 mΩ	0.15 mΩ	4.60 mΩ
		No Discontinuity	Discontinuity < 1 microsecond			

NOTE : ** APPROXIMATELY 7.8 mΩ OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE 6 INCHES OF WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION –12 CIRCUIT VERSION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
3B	Contact Resistance (Low Level)	Initial **	10 milliohms MAXIMUM	10.24 mΩ	9.85 mΩ	10.52 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.41 mΩ	0.14 mΩ	2.13 mΩ
		After Temperature Life Pre-Conditioned Δ mΩ	20 milliohms MAXIMUM	0.81 mΩ	0.16 mΩ	3.68 mΩ
		After Vibration Δ mΩ	20 milliohms MAXIMUM	1.14 mΩ	0.25 mΩ	3.56 mΩ
		No Discontinuity	Discontinuity < 1 microsecond			

NOTES : ** APPROXIMATELY 7.8 mΩ OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE 6 INCHES OF WIRE USED IN SAMPLE PREPARATION.

SEE APPENDIX "A" FOR TEST SEQUENCE DESCRIPTION

REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 4 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4A	Contact Resistance (Low Level)	Initial **	10 milliohms MAXIMUM	20.07 mΩ	19.95 mΩ	20.50 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.31 mΩ	-0.02 mΩ	0.72 mΩ
		After Temperature Life Pre-Conditioned Δ mΩ	20 milliohms MAXIMUM	0.34 mΩ	0.07 mΩ	0.97 mΩ
		Thermal Cycling 167 Hours Δ mΩ	20 milliohms MAXIMUM	0.42 mΩ	0.10 mΩ	2.01 mΩ
		Thermal Cycling 334 Hours Δ mΩ	20 milliohms MAXIMUM	0.41 mΩ	-0.06 mΩ	1.03 mΩ
		Thermal Cycling 500 Hours Δ mΩ	20 milliohms MAXIMUM	0.64 mΩ	0.03 mΩ	2.79 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	0.54 mΩ	0.14 mΩ	2.45 mΩ

NOTES : ** APPROXIMATELY 16.6 mΩ OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE 13 INCHES OF WIRE USED IN SAMPLE PREPARATION.

SEE APPENDIX "A" FOR TEST SEQUENCE DESCRIPTION

REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 5 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4B	Contact Resistance (Low Level)	Initial	10 milliohms MAXIMUM	4.78 mΩ	4.56 mΩ	5.53 mΩ
		After Durability Δ mΩ	20 milliohms MAXIMUM	0.48 mΩ	0.06 mΩ	2.35 mΩ
		After Temperature Life Pre-Conditioned Δ mΩ	20 milliohms MAXIMUM	1.07 mΩ	0.13 mΩ	5.80 mΩ
		Thermal Cycling 167 Hours Δ mΩ	20 milliohms MAXIMUM	1.38 mΩ	0.30 mΩ	4.68 mΩ
		Thermal Cycling 334 Hours Δ mΩ	20 milliohms MAXIMUM	1.63 mΩ	0.31 mΩ	5.17 mΩ
		Thermal Cycling 500 Hours Δ mΩ	20 milliohms MAXIMUM	3.04 mΩ	0.69 mΩ	8.51 mΩ
		After Reseating Δ mΩ	20 milliohms MAXIMUM	3.48 mΩ	0.41 mΩ	8.94 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE DESCRIPTION

REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 6 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

ITEM	DESCRIPTION	WIRE GAUGE	REQUIREMENT	AMPERAGE
5	Temperature Rise & Current Cycling	30 AWG	30°C Max. Temp. Rise	2.5 Amps
		26 AWG	30°C Max. Temp. Rise	3.0 Amps
		24 AWG	30°C Max. Temp. Rise	4.0 Amps
		20 AWG	30°C Max. Temp. Rise	5.5 Amps

5.2 MECHANICAL PERFORMANCE RESULTS

ITEM	DESCRIPTION	Wire Gauge	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
6	Wire Pullout Force (Newtons)	20 AWG	57.8 N Minimum	127.4	117.5	134.7
		22 AWG	35.6 N Minimum	86.1	80.2	90.4
		24 AWG	22.2 N Minimum	53.6	44.7	58.08
		26 AWG	13.3 N Minimum	36.1	33.8	38.3
		28 AWG	8.9 N Minimum	21.1	18.1	23.2
		30 AWG	6.6 N Minimum	18.2	13.5	24.6

ITEM	DESCRIPTION	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
7	Contact Normal Force (grams)	275 g Min	331 g	322 g	343 g

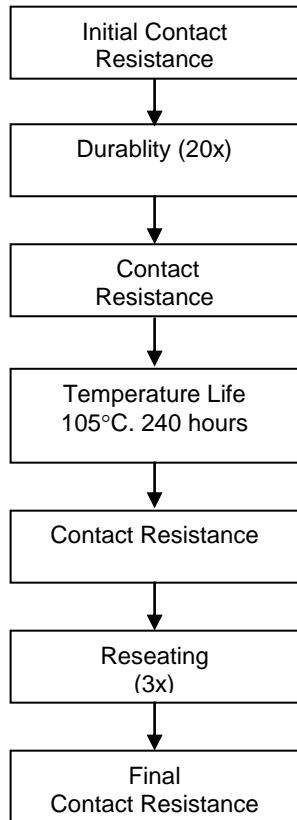
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DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

APPENDIX A
TEST SEQUENCES

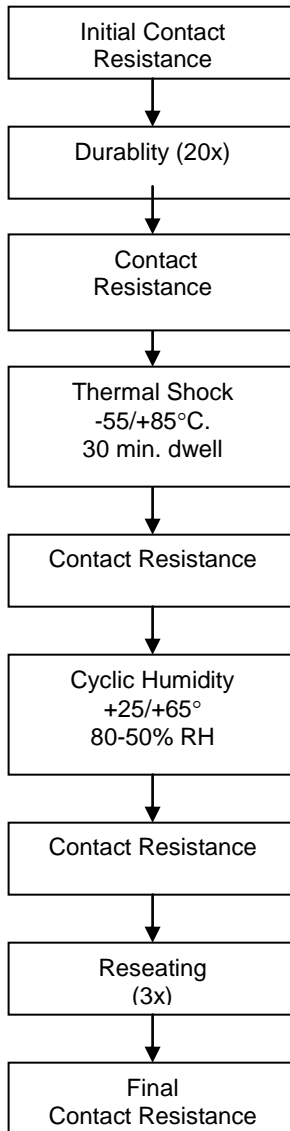
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DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

A.1 TEST SEQUENCES

SEQUENCE 1 1A Wire to Wire 1B Wire to Board



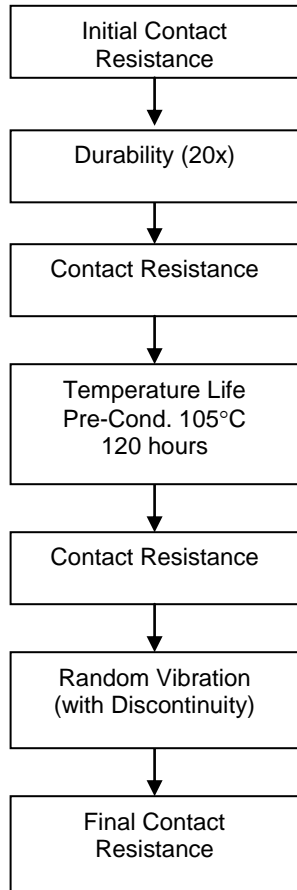
SEQUENCE 2 2A Wire to Wire 2B Wire to Board



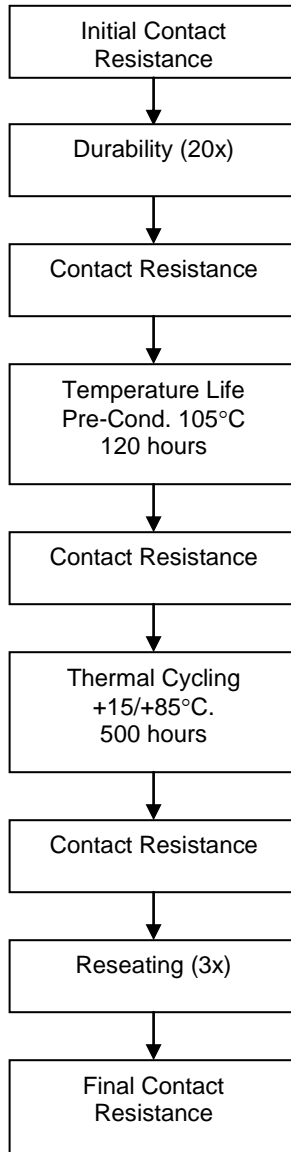
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DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH

A.1 TEST SEQUENCES (continued)

SEQUENCE 3 3A Wire to Wire 3B Wire to Board



SEQUENCE 4 4A Wire to Wire 4B Wire to Board



REVISION: A2	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /18	TITLE: TEST SUMMARY MICRO-FIT (3.0) CONNECTORS	SHEET No. 10 of 10
DOCUMENT NUMBER: TS-43045-001	CREATED / REVISED BY: JDFOX	CHECKED BY: SSOUSEK	APPROVED BY: FSMITH



TEST SUMMARY

Micro-Fit (3.0) Connector System (Wire to Wire & Wire to Board – Gold Plating)

1.0 SCOPE

This Test Specification covers the 3.00 mm (.118 inch) centerline (pitch) connector series terminated with 20-30 AWG wire using crimp technology and gold plating on the contact interfaces.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME, SERIES, AND PART NUMBER(S)

- Micro-Fit (3.0) Receptacle Series : 43025, 43645, 44133 (BMI)
- Micro-Fit (3.0) Plug Series : 43020, 43640, 44300 (BMI)
- Micro-Fit (3.0) Right Angle & Vertical Header Series : 43045, 43650, 44067
- Micro-Fit (3.0) Compliant Pin Vertical Header Series : 44914
- Micro-Fit (3.0) Female Crimp Terminal Series : 43030
- Micro-Fit (3.0) Male Crimp Terminal Series : 43031
- Micro-Fit (3.0) Female Crimp Terminal with Lubricant : 45773

2.1.1 SERIES NUMBERS TESTED

- Micro-Fit (3.0) Receptacle : 43025
- Micro-Fit (3.0) Plug : 43020
- Micro-Fit (3.0) Right Angle & Vertical Headers : 43045
- Micro-Fit (3.0) Female Crimp Terminal : 43030
- Micro-Fit (3.0) Male Crimp Terminal : 43031
- Micro-Fit (3.0) Female Crimp Terminal with Lubricant : 45773

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for information on dimensions, materials, plating, and markings.

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

- Product Specification Micro-Fit Dual Row Connectors
Document Number: PS-43045
- Product Specification Micro-Fit Single Row Connectors
Document Number: PS-43650
- Product Specification Micro-Fit (3.0) BMI Floating Connector System
Document Number: PS-44300-001

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TEST SUMMARY

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

3.1 TESTING PROCEDURES, SEQUENCES, AND SPECIFICATIONS

NPS-25298-2
 EIA-364-65A
 EIA-364-1000.01
 MIL-STD-202 METHOD 213
 MIL-STD-202 METHOD 204

3.2 OTHER DOCUMENTS AND SPECIFICATIONS

None

4.0 QUALIFICATION

Laboratory conditions and sample selection are in accordance with **EIA-364** and **NPS-25298-2**.

5.0 PERFORMANCE RESULTS

5.1 ELECTRICAL PERFORMANCE RESULTS

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1A	CONTACT RESISTANCE (LOW LEVEL)	Initial **	---	17.84 mΩ	17.69 mΩ	18.34 mΩ
		After Vibration Δ mΩ	10 milliohms MAXIMUM	0.05 mΩ	-0.49 mΩ	0.46 mΩ
			No Discontinuity	Discontinuity < 1 microsecond		
		After Mechanical Shock Δ mΩ	10 milliohms MAXIMUM	0.12 mΩ	-0.41 mΩ	0.48 mΩ
			No Discontinuity	Discontinuity < 1 microsecond		

NOTE : ** A PORTION OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
1B	CONTACT RESISTANCE (LOW LEVEL)	Initial	---	9.85 mΩ	9.66 mΩ	10.02 mΩ
		After Vibration Δ mΩ	10 milliohms MAXIMUM	-0.07 mΩ	-0.21 mΩ	0.00 mΩ
			No Discontinuity	Discontinuity < 1 microsecond		
		After Mechanical Shock Δ mΩ	10 milliohms MAXIMUM	-0.02 mΩ	-0.15 mΩ	0.09 mΩ
			No Discontinuity	Discontinuity < 1 microsecond		

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "1" DESCRIPTION

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TEST SUMMARY

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
2A	Contact Resistance (Low Level)	Initial **	---	17.84 mΩ	17.70 mΩ	17.98 mΩ
		After Thermal Shock Δ mΩ	10 milliohms MAXIMUM	0.05 mΩ	-0.02 mΩ	0.21 mΩ
		After Cyclic Humidity Δ mΩ	10 milliohms MAXIMUM	0.04 mΩ	-0.08 mΩ	0.64 mΩ

NOTE : ** A PORTION OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
2B	Contact Resistance (Low Level)	Initial	---	5.01 mΩ	4.83 mΩ	5.36 mΩ
		After Thermal Shock Δ mΩ	10 milliohms MAXIMUM	-0.01 mΩ	-0.15 mΩ	0.16 mΩ
		After Cyclic Humidity Δ mΩ	10 milliohms MAXIMUM	-0.02 mΩ	-0.15 mΩ	0.19 mΩ

ITEM 2C AND 2D:

ALL OF THE SAMPLES USED IN THE SEQUENCE "2" (GROUP 2) INSULATION RESISTANCE AND DIELECTRIC WITHSTANDING VOLTAGE TESTING PASSED WITHOUT FAILURE (WIRE TO WIRE AND WIRE TO BOARD).

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "2" DESCRIPTION

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
3A	Contact Resistance (Low Level)	Initial **	---	17.84 mΩ	17.64 mΩ	19.99 mΩ
		After Thermal Aging Δ mΩ	10 milliohms MAXIMUM	0.07 mΩ	-1.09 mΩ	0.16 mΩ

NOTE : ** A PORTION OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE WIRE USED IN SAMPLE PREPARATION.

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TEST SUMMARY

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
3B	Contact Resistance (Low Level)	Initial	---	4.98 mΩ	4.87 mΩ	5.20 mΩ
		After Thermal Aging Δ mΩ	10 milliohms MAXIMUM	0.03 mΩ	-0.03 mΩ	0.10 mΩ

SEE APPENDIX "A" FOR TEST SEQUENCE "3" DESCRIPTION

43030 FEMALE CRIMP TERMINAL

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4A L o t 1	Contact Resistance (Low Level)	Initial	---	3.27 mΩ	3.15 mΩ	3.41 mΩ
		After Thermal Age Δ mΩ	10 milliohms MAXIMUM	0.02 mΩ	-0.01 mΩ	0.04 mΩ
		After Tensile Strength Δ mΩ	10 milliohms MAXIMUM	0.02 mΩ	-0.02 mΩ	0.04 mΩ

43031 MALE CRIMP TERMINAL

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4B L o t 1	Contact Resistance (Low Level)	Initial	---	3.31 mΩ	3.17 mΩ	3.40 mΩ
		After Thermal Age Δ mΩ	10 milliohms MAXIMUM	0.02 mΩ	0.00 mΩ	0.04 mΩ
		After Tensile Strength Δ mΩ	10 milliohms MAXIMUM	0.02 mΩ	0.00 mΩ	0.05 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "4" DESCRIPTION

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TEST SUMMARY

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

43030 FEMALE CRIMP TERMINAL

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4A L o t 2	Contact Resistance (Low Level)	Initial	---	3.45 mΩ	3.24 mΩ	3.74 mΩ
		After Thermal Age Δ mΩ	10 milliohms MAXIMUM	0.00 mΩ	-0.01 mΩ	0.02 mΩ
		After Gas Tightness Δ mΩ	10 milliohms MAXIMUM	0.01 mΩ	0.00 mΩ	0.05 mΩ

43031 MALE CRIMP TERMINAL

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
4B L o t 2	Contact Resistance (Low Level)	Initial	---	3.48 mΩ	3.25 mΩ	3.73 mΩ
		After Thermal Age Δ mΩ	10 milliohms MAXIMUM	0.01 mΩ	-0.01 mΩ	0.03 mΩ
		After Gas Tightness Δ mΩ	10 milliohms MAXIMUM	0.02 mΩ	-0.01 mΩ	0.05 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "4" DESCRIPTION

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TEST SUMMARY

5.1 ELECTRICAL PERFORMANCE RESULTS (continued)

NOTE: The following Mixed Flowing Gas Testing results are for the MicroFit Female Crimp Terminal 45773 series (43030 series terminal with environmental lube applied).

WIRE TO WIRE CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
5A	Contact Resistance (Low Level)	Initial **	---	18.16 mΩ	18.03 mΩ	18.59 mΩ
		After Durability Δ mΩ	10 milliohms MAXIMUM	-0.12 mΩ	-0.67 mΩ	0.03 mΩ
		After Unmated 5 days Δ mΩ	10 milliohms MAXIMUM	-0.05 mΩ	-0.57 mΩ	0.65 mΩ
		After Unmated 10 days Δ mΩ	10 milliohms MAXIMUM	0.05 mΩ	-1.10 mΩ	1.05 mΩ
		After Mated 15 days Δ mΩ	10 milliohms MAXIMUM	0.04 mΩ	-0.12 mΩ	0.24 mΩ
		After Mated 20 days Δ mΩ	10 milliohms MAXIMUM	-0.01 mΩ	-0.99 mΩ	2.57 mΩ
		After Durability Δ mΩ	10 milliohms MAXIMUM	-0.22 mΩ	-2.58 mΩ	0.50 mΩ

NOTE : ** A PORTION OF THE MEASUREMENT VALUE IS ATTRIBUTED TO THE BULK RESISTANCE OF THE WIRE USED IN SAMPLE PREPARATION.

WIRE TO BOARD CONFIGURATION

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
5B	Contact Resistance (Low Level)	Initial	---	5.24 mΩ	5.09 mΩ	5.42 mΩ
		After Durability Δ mΩ	10 milliohms MAXIMUM	-0.01 mΩ	-0.32 mΩ	0.24 mΩ
		After Unmated 5 days Δ mΩ	10 milliohms MAXIMUM	0.03 mΩ	-0.30 mΩ	1.03 mΩ
		After Unmated 10 days Δ mΩ	10 milliohms MAXIMUM	0.00 mΩ	-0.36 mΩ	0.18 mΩ
		After Mated 15 days Δ mΩ	10 milliohms MAXIMUM	0.09 mΩ	-0.33 mΩ	0.58 mΩ
		After Mated 20 days Δ mΩ	10 milliohms MAXIMUM	0.04 mΩ	-0.29 mΩ	0.42 mΩ
		After Durability Δ mΩ	10 milliohms MAXIMUM	0.11 mΩ	-0.11 mΩ	0.39 mΩ

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "5" DESCRIPTION

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TEST SUMMARY

5.2 MECHANICAL PERFORMANCE RESULTS

ITEM	DESCRIPTION	TREATMENT	REQUIREMENT	MEAN	MINIMUM	MAXIMUM
3C	Contact Normal Force (grams)	Initial	275 g Min	443 g	413 g	466 g
		After Thermal Age	275 g Min	292 g	285 g	297 g

NOTE : SEE APPENDIX "A" FOR TEST SEQUENCE "3" DESCRIPTION

REVISION: A1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /19	TITLE: TEST SUMMARY MICRO-FIT (3.0) DUAL ROW CONNECTORS (GOLD)	SHEET No. 7 of 11
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TEST SUMMARY

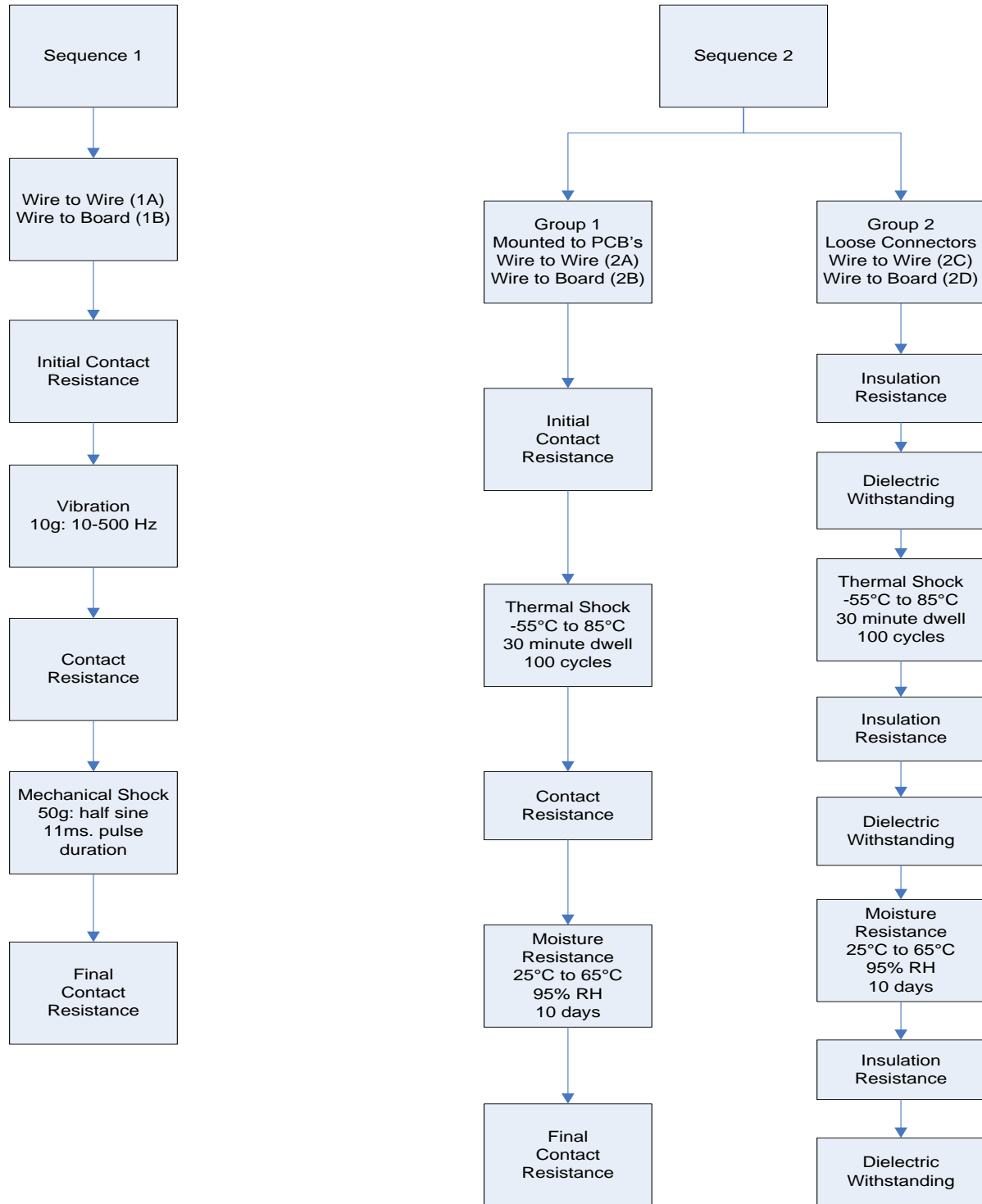
APPENDIX A TEST SEQUENCES

<u>REVISION:</u> A1	<u>ECR/ECN INFORMATION:</u> EC No: 109530 DATE: 2016 / 10 /19	<u>TITLE:</u> TEST SUMMARY MICRO-FIT (3.0) DUAL ROW CONNECTORS (GOLD)	<u>SHEET No.</u> 8 of 11
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TEST SUMMARY

A.1 TEST SEQUENCES

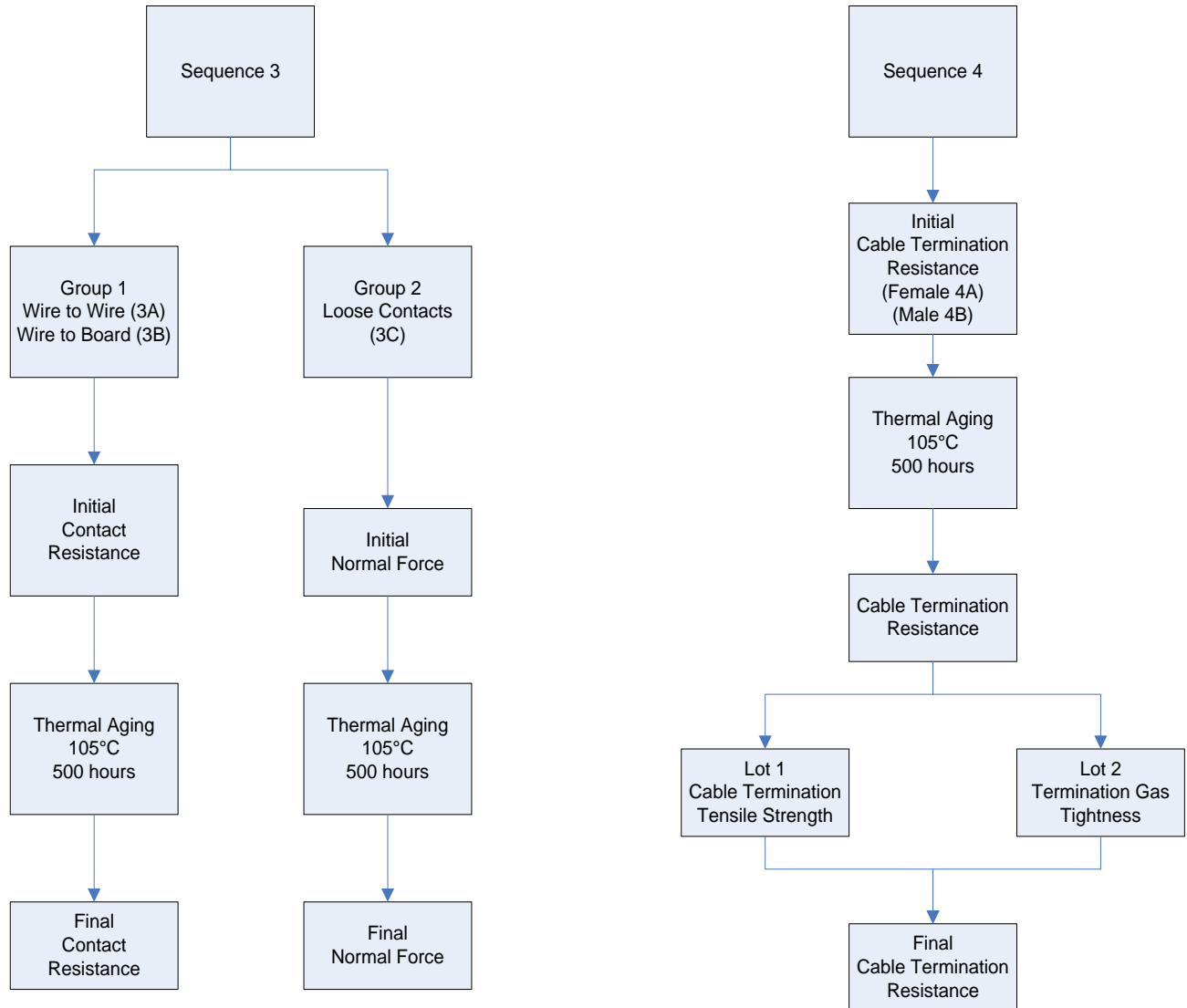


REVISION: A1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /19	TITLE: TEST SUMMARY MICRO-FIT (3.0) DUAL ROW CONNECTORS (GOLD)	SHEET No. 9 of 11
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TEST SUMMARY

A.1 TEST SEQUENCES (continued)

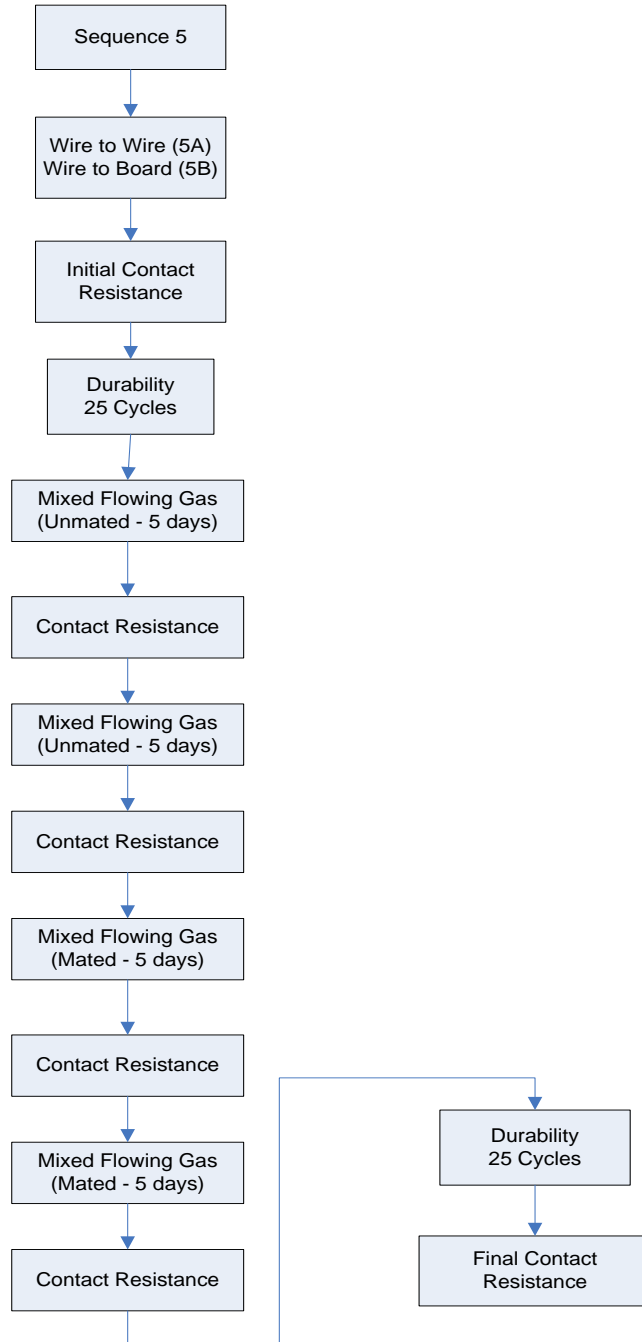


REVISION: A1	ECR/ECN INFORMATION: EC No: 109530 DATE: 2016 / 10 /19	TITLE: TEST SUMMARY MICRO-FIT (3.0) DUAL ROW CONNECTORS (GOLD)	SHEET No. 10 of 11
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TEST SUMMARY

A.1 TEST SEQUENCES (continued)



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