

Molex 44432-1401 PDF

深圳创唯电子有限公司

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



PRODUCT SPECIFICATION

MICRO-FIT BMI FLOATING CONNECTOR SYSTEM

1.0 SCOPE

This Product Specification covers the performance requirements and test methods of Micro-Fit 3.00 mm (.118 inch) centerline (pitch) wire to wire, wire to board, and board to board connector systems terminated with 18 to 30 AWG stranded wire using crimp technology with tin or gold plating.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

Micro-Fit Dual Row BMI Floating Panel Receptacle: 44133	Female Crimp Terminal: 43030
Micro-Fit Dual Row BMI Panel Mount Plug: 44300	Male Crimp Terminal: 43031
Micro-Fit Dual Row BMI Receptacle Headers: 44764 and 44769	
Micro-Fit Dual Row BMI Headers: 44428 and 44432	
Micro-Fit Dual Row BMI Vertical CPI Header : 45280	
Micro-Fit Single Row BMI Floating Panel Receptacle: 46623	
Micro-Fit Single Row BMI Panel Mount Plug: 46625	
Micro-Fit Single Row BMI Headers: 46622	
Test Plug: 44242 (recommended for continuity testing only)	

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

(See the appropriate Sales Drawings for details)

Crimp Terminals: Phosphor Bronze

Panel Receptacle and Plug: Polyester, Nylon

Headers: High Temp Nylon, LCP

Header Pins and Terminals: Brass, Modified Tin/Brass, Phosphor Bronze

2.3 SAFETY AGENCY APPROVALS

UL File Number:.... E29179

CSA:..... LR19980

IEC 61984 Certification: Tested to and found in compliance with IEC 61984. NRTL type examination certificate available from Molex upon request. Contact Molex Safety Agency team for questions regarding certification on specific part numbers."

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Test Summary: TS-43045-001

Application Spec: AS-45499-001 (moisturizing nylon parts)

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<u>DOCUMENT NUMBER:</u> PS-44300-001	<u>CREATED / REVISED BY:</u> SSOUSEK	<u>CHECKED BY:</u> JBELL	<u>APPROVED BY:</u> F.SMITH



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4.0 RATINGS

4.1 SAFETY AGENCY RATINGS

Series	Agency Voltage Rating (AC RMS or DC)			Agency Current Rating (Single Circuit) (Amps)		
	UL	CSA	IEC	UL	CSA	IEC
44133	250	600	250	8	8	5
44300	250	600	250	N/A	7	5
44428	600	600	250	8	8	5
44432	250	600	250	8	8	5
44764	600	600	250	N/A	8	5
44769	250	600	250	N/A	8	5
45280	600	600	250	8	8	5
46622	600	600	250	5	8	5
46623	600	600	250	5	7	5
46625	250	600	250	TBD	7	5

(Current ratings are maximum and may vary depending on wire size, circuit count, and end-use application. Further testing may be required in the end-use application.)

4.2 CURRENT DERATING AND APPLICABLE WIRES

Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.

Stranded Copper Wire Size

18 AWG
0.75 mm²
20 AWG
22 AWG
24 AWG
26 AWG
28 AWG
30 AWG

Max. Outside Insulation Diameter

1.85 mm (.073 inch)
1.85 mm (.073 inch)
1.85 mm (.073 inch)
1.85 mm (.073 inch)
1.85 mm (.073 inch)
1.27 mm (.050 inch)
1.27 mm (.050 inch)
1.27 mm (.050 inch)

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CURRENT DERATING REFERENCE INFORMATION - DUAL ROW

AWG and Metric Wire Size	2-circuit		6-circuit		12-circuit		24-circuit	
	W-W	W-B(1)	W-W	W-B(1)	W-W	W-B(1)	W-W	W-B(1)
	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps
18 AWG	7	8.5	6	6.5	5.5	5.5	5	5
20 AWG or 0.75mm ²	6.5	7	5	* 5.5	4.5	* 5	* 4	4.5
22 AWG	5.5	* 6	* 4	* 4.5	* 3.5	* 4	* 3	* 3.5
24 AWG	5	5.5	4	* 4.5	3	* 3.5	* 2	* 3
26 AWG	4	4.5	3	* 4	2.5	* 3.5	* 1.5	2.5
28 AWG	3	* 4	* 2	* 3	* 2	* 3	* 1	* 2
30 AWG	3	3.5	2	* 3	2	* 2.5	* 1	1

CURRENT DERATING REFERENCE INFORMATION - DUAL ROW

AWG Wire Size	4-circuit	6-circuit	12-circuit	24-circuit
	W-B(2)	W-B(2)	W-B(2)	W-B(2)
	Amps	Amps	Amps	Amps
18 AWG	6.5	5.5	5	4.5

CURRENT DERATING REFERENCE INFORMATION - SINGLE ROW

AWG and Metric Wire Size	2-circuit		6-circuit		12-circuit	
	W-W	W-B(1)	W-W	W-B(1)	W-W	W-B(1)
	Amps	Amps	Amps	Amps	Amps	Amps
18	7	8.5	6.5	7	6.5	6.5
20 AWG or 0.75mm ²	6.5	7	5	* 5.5	4.5	* 5
22	5.5	* 6	* 4	* 4.5	* 3.5	* 4
24	5	5.5	4	* 4.5	3	* 3.5
26	4	4.5	3	* 4	2.5	* 3.5
28	3	* 4	* 2	* 3	* 2	* 3
30	3	3.5	2	* 3	2	* 2.5

See next page for notes about information in derating tables.

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Notes for information in derating tables:

- 1) Values are for REFERENCE ONLY.
- 2) Current deratings are based on not exceeding 30°C Temperature Rise.
- 3) Testing conducted using tinned stranded copper wire and tin plated terminals.
- 4) PCB trace design can greatly affect temperature rise results in Wire-to-Board applications.
- 5) Data is for all circuits powered.
- 6) * indicates interpolated information.
- 7) Abbreviations:
 - a. **W-W:** Wire-to-Wire
 - b. **W-B(1):** Wire-to-Board (44133 Wire Receptacle to Header)
 - c. **W-B(2):** Wire-to-Board (44300 Wire Plug to Receptacle Header)

4.3 CURRENT FOR TEST PLUG 44242

2.5 Amps Maximum (Pogo pin current capacity)
 (Test plugs are for testing purposes only and not intended for continuous use.)

4.4 TEMPERATURE

Operating: -40°C to +105°C (Including Terminal Temperature Rise)
 Nonoperating: -40°C to +105°C

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5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
Contact Resistance of Wire Termination (Low Level)	Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.	5 milliohms MAXIMUM [initial]
Insulation Resistance	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
Dielectric Withstanding Voltage	Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown; current leakage < 5 mA
Capacitance	Measure between adjacent terminals at 1 MHz.	2 picofarads MAXIMUM
Temperature Rise (via Current Cycling)	Mate connectors: measure the temperature rise at the rated current after: 1) 96 hours (steady state) 2) 240 hours (45 minutes ON and 15 minutes OFF per hour) 3) 96 hours (steady state)	Temperature rise: +30°C MAXIMUM

5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Connector Mate and Unmate Forces	Mate and unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (per circuit)	8.0 N (1.8 lbf) MAXIMUM insertion force & 2.4 N (0.5 lbf) MINIMUM withdrawal force
Crimp Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	24.5 N (5.5 lbf) MINIMUM retention force

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5.2 MECHANICAL REQUIREMENTS, cont.

DESCRIPTION	TEST CONDITION	REQUIREMENT
Pin Retention Force (in Header)	Apply axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	13.3 N (3.0 lbf) MINIMUM retention force
Crimp Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	14.7 N (3.3 lbf) MAXIMUM insertion force
Durability	Mate connectors up to 30 cycles for tin or gold at a maximum rate of 10 cycles per minute.	10 milliohms MAXIMUM (change from initial)
Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
Shock (Mechanical)	Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X, ±Y, ±Z axes (18 shocks total). (Per EIA-364-27, Test Condition H)	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
Wire Pullout Force (Axial) Wire to Terminal	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch).	MINIMUM pullout force 18 awg: 89.0 N (20.0 lbf) 0.75 mm ² : 89.0 N (20.0 lbf) 20 awg: 57.8 N (13.0 lbf) 22 awg: 35.6 N (8.0 lbf) 24 awg: 22.2 N (5.0 lbf) 26 awg: 13.3 N (3.0 lbf) 28 awg: 8.9 N (2.0 lbf) 30 awg: 6.6 N (1.5 lbf) Values may vary depending on crimp tooling. Refer to Molex Applicator Tooling Specification.
Normal Force	Apply a perpendicular force.	2.7 N (0.6 lbf) MINIMUM
Panel Retention Forces	Apply a force perpendicular to the panel on the connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	200 N (45 lbf) MINIMUM withdrawal force
Fretting Corrosion (Hammer Shock)	Mate connectors: strike test platform at a rate of 10 cycles per minute with a 0.98 N (100 gram) hammer for 20,000 cycles.	10 milliohms MAXIMUM (change from initial)

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5.2 MECHANICAL REQUIREMENTS, cont.

DESCRIPTION	TEST CONDITION	REQUIREMENT
Compliant Pin Insertion Force into PCB Hole (44914 Series)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	106.7 N (24 lbf) Maximum Insertion force (Per Terminal) ⁽¹⁾
Compliant Pin Retention Force in PCB Hole (44914 Series)	Apply an axial extraction force on the terminal at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	35.6 N (8 lbf) Minimum Retention force (Per Terminal) ⁽¹⁾

(1) Based on results using Printed Circuit Board (PCB) with Tin PTH finish. Pin left undisturbed in PCB a minimum of 24 hours after insertion prior to testing Retention Force. PCB with different design or finish may vary from these results

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT																
Fretting Corrosion (Thermal Shock)	<p>Mate connectors. Expose for 500 cycles between temperatures shown below. Dwell 0.5 hours at each temperature.</p> <p>Single Row: Temperatures 15 and 85°C Dual Row: Temperatures 25 and 85°C</p> <p>{Note: Remove surface moisture and air dry for 1 hour prior to measurements; monitor low level contact resistance every 167 cycles.}</p>	10 milliohms MAXIMUM (change from initial)																
Shock (Thermal)	<p>Dual Row: Mate connectors. Expose to 5 cycles of:</p> <table border="1"> <thead> <tr> <th>Temperature °C</th> <th>Duration (Minutes)</th> </tr> </thead> <tbody> <tr> <td>-40 +0/-3</td> <td>30</td> </tr> <tr> <td>+25 ±10</td> <td>5 MAXIMUM</td> </tr> <tr> <td>+105 +3/-0</td> <td>30</td> </tr> <tr> <td>+25 ±10</td> <td>5 MAXIMUM</td> </tr> </tbody> </table> <p>Single Row: Mate connectors. Expose to 10 cycles of:</p> <table border="1"> <thead> <tr> <th>Temperature °C</th> <th>Duration (Minutes)</th> </tr> </thead> <tbody> <tr> <td>-55 +/-2</td> <td>30</td> </tr> <tr> <td>+85 +/-2</td> <td>30</td> </tr> </tbody> </table>	Temperature °C	Duration (Minutes)	-40 +0/-3	30	+25 ±10	5 MAXIMUM	+105 +3/-0	30	+25 ±10	5 MAXIMUM	Temperature °C	Duration (Minutes)	-55 +/-2	30	+85 +/-2	30	10 milliohms MAXIMUM (change from initial)
Temperature °C	Duration (Minutes)																	
-40 +0/-3	30																	
+25 ±10	5 MAXIMUM																	
+105 +3/-0	30																	
+25 ±10	5 MAXIMUM																	
Temperature °C	Duration (Minutes)																	
-55 +/-2	30																	
+85 +/-2	30																	

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5.3 ENVIRONMENTAL REQUIREMENTS, cont.

DESCRIPTION	TEST CONDITION	REQUIREMENT
Thermal Aging	Mate Connectors. Expose to: <u>Dual Row</u> 96 hours at 105 +/- 2°C or 500 hours at 85 +/- 2°C <u>Single Row</u> 240 hours at 105 +/- 2°C or 500 hours at 85 +/- 2°C	10 milliohms MAXIMUM (change from initial)
Humidity (Steady State)	Mate connectors: expose to a temperature of 85 ± 2°C with a relative humidity of 90-95% for 96 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements.	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM
Humidity (Cyclic)	Mate connectors: cycle per EIA-364-31: 10 cycles at temperature 25 ± 3°C at 80 ± 5% relative humidity and 65 ± 3°C at 50 ± 5% relative humidity; dwell time of 1.0 hour; ramp time of 0.5 hours. {Note: Remove surface moisture and air dry for 1 hour prior to measurements.}	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM
Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
Solder Resistance	Wave Solder Process (Nylon or LCP Headers) Dip connector terminal tails in solder; Solder Duration: 10 seconds MAX Solder Temperature: 260°C MAX Per AS-40000-5013 Convection Reflow Solder Process (LCP Headers Only) 260°C MAX Per AS-40000-5013	Visual: No Damage to insulator material

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5.3 ENVIRONMENTAL REQUIREMENTS, cont.

DESCRIPTION	TEST CONDITION	REQUIREMENT
Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	10 milliohms MAXIMUM (change from initial)
Corrosive Atmosphere: Flowing Mixed Gas (FMG) (Dual Row Gold Plated Only)	Mate connectors: Test per EIA-364-65, method 2A	10 milliohms MAXIMUM (change from initial)

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage per the packaging specifications listed below:

BMI Floating Panel Receptacle: PK-44133-002, PK-46623-001, PK-46623-002

BMI Panel Mount Plug: PK-44300-001, PK-44300-002, PK-46625-001

BMI Receptacle Headers: PK-44764-001, PK-44769-001

BMI Headers: PK-44428-001, PK-44432-001, PK-46622-001

BMI Vertical CPI Header: PK-44432-001

7.0 GAGES AND FIXTURES

It is recommended that test plugs (Series 44242) be used for continuity testing of receptacles. Standard mating parts should not be used for continuity testing.

NOTE: The use of unauthorized testing devices and/or probes with a Molex product may cause damage to and affect functionality of the Molex product, and such use may void any and all warranties, expressed or implied.

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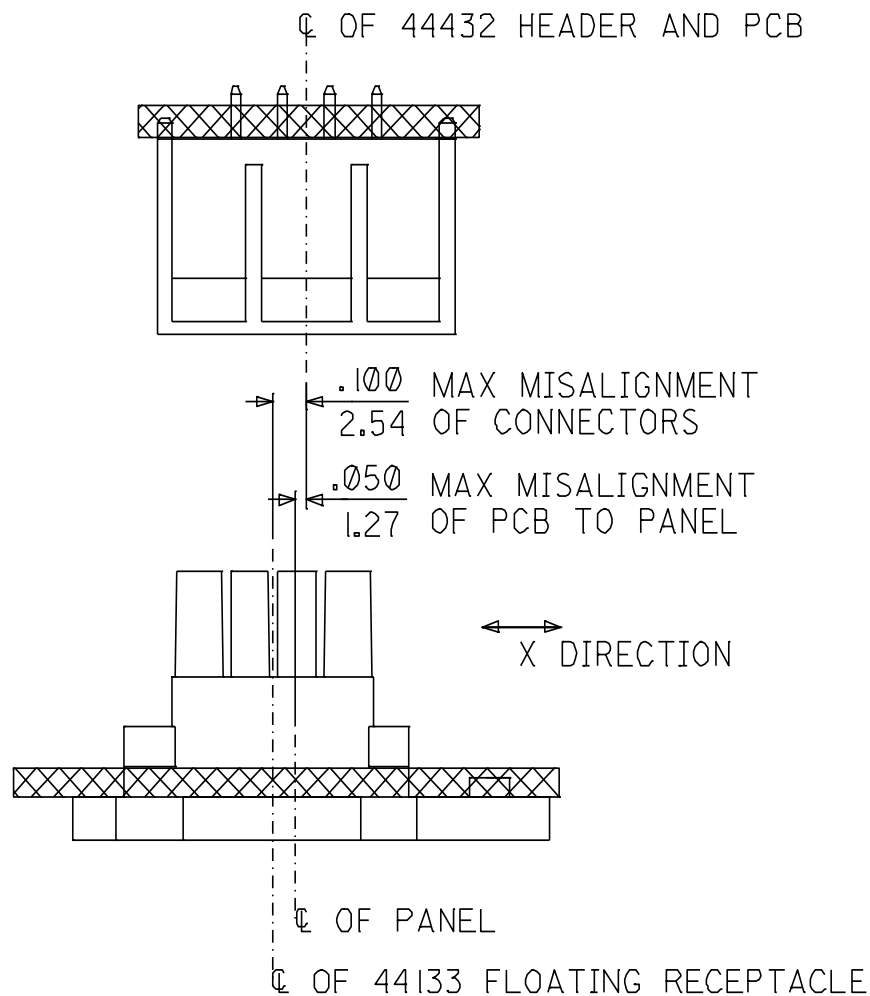


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8.0 APPLICATION INFORMATION

8.1 CONNECTOR ALIGNMENT

Misalignment applies to "X" and "Y" directions
(Dual Row Receptacle (44133) is illustrated. Dimensions also apply to Single Row Receptacle (46623) mating to single row plug or header.)

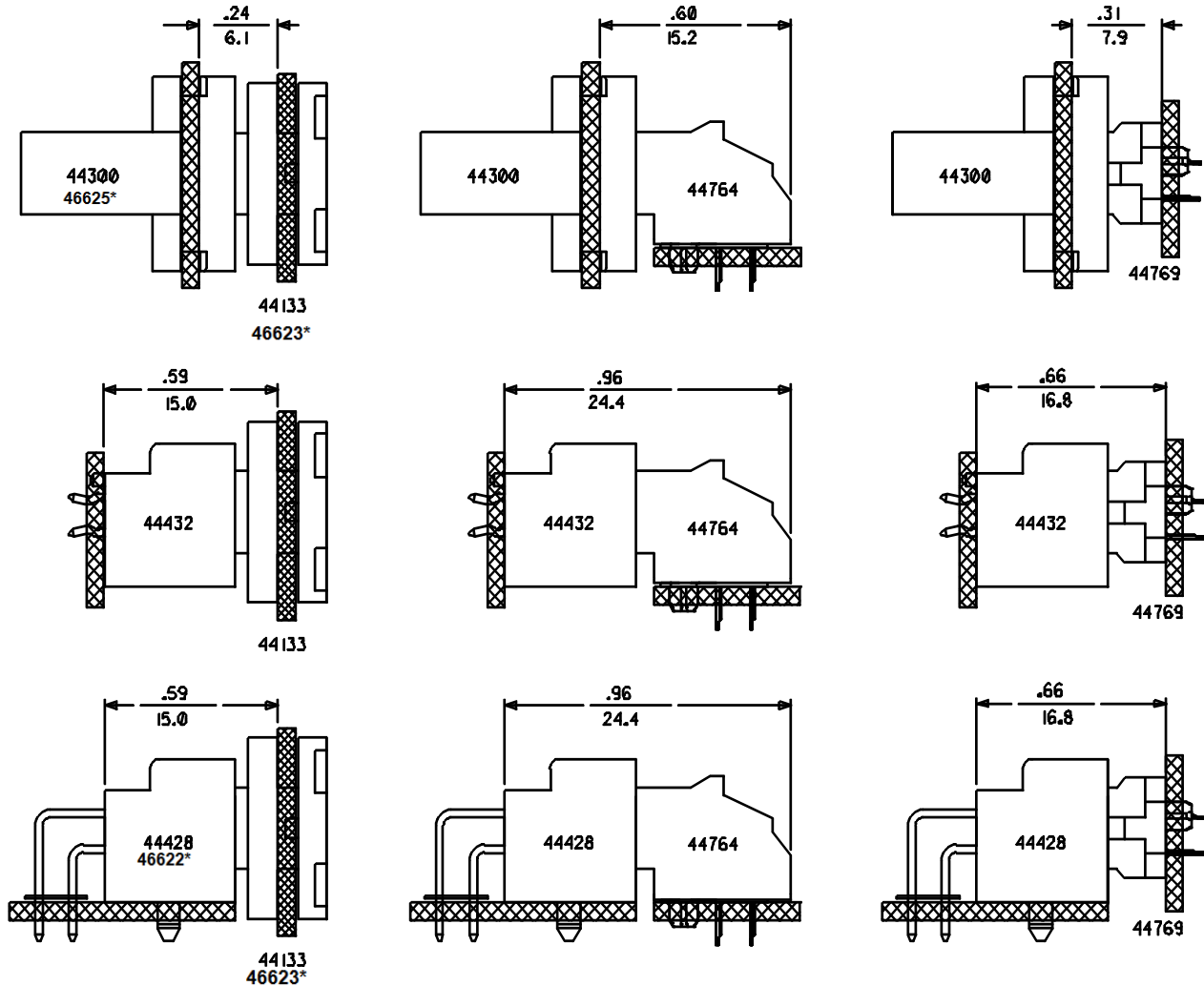


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8.2 Mated Dimensions (PARTS SHOWN FULLY MATED)(Dual Row is illustrated)



***Note:**

- 46622 – Single Row Right Angle Header
- 46623 – Single Row Panel Mount Receptacle
- 46625 – Single Row Panel Mount Plug

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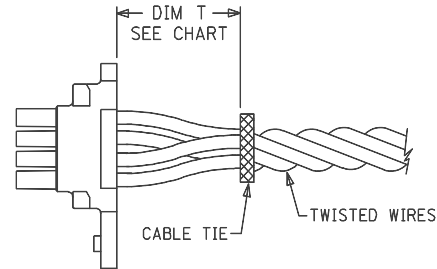
8.3 TIE WRAP AND/OR WIRE TWISTING PLACEMENT

Dual Row:

CKT Sizes	Dim T	Min.
2-8	.500	(12.70)
10-16	.750	(19.10)
18-24	1.000	(25.40)

Single Row:

CKT Sizes	Dim T	Min.
2-4	.500	(12.70)
5-8	.750	(19.10)
9-12	1.000	(25.40)



The “T” dimension defines a “free” length of wire, or a length of wire that is not subject to significant bias by external factors such as a wire tie, wire twisting, or other means of bending or deforming of the wires that repositions them from their natural relaxed state or location where they enter the housing. Wires are to be dressed in such a manner to allow the terminals to float freely in the pocket.

8.4 CONTACT ENGAGEMENT FOR FULLY MATED COMPONENTS

Receptacle	Mated to Plug/ Header	Application	Contact Wipe
44133 Panel Mount Receptacle ⁽¹⁾	44300 Plug	Wire-to-Wire	.094 in/ (2.39 mm)
	44428 RA Header 44432 Vert Header 45280 CPI Header	Wire-to-Board	.072 in/ (1.82 mm)
	44764 Right Angle Receptacle Header	Board-to-Wire	.091 in/ (2.30 mm)
44769 Vertical Receptacle Header	44428 RA Header 44432 Vert Header 45280 CPI Header	Board-to-Board	.068 in/ (1.73 mm)
	44300 Plug	Board-to-Wire	.087 in/ (2.20 mm)
	44428 RA Header 44432 Vert Header 45280 CPI Header	Board-to-Board	.064 in/ (1.63 mm)
46623 Panel Mount Receptacle ⁽¹⁾	46625 Plug	Wire-to-Wire	.094 in/(2.39mm)
	46623 RA Header	Wire-to-Board	.072 in/(1.82mm)

Note (1): Contact Wipe is based on 43030 female crimp terminal. If using 46235 female crimp terminal, reduce Contact Wipe by .005 in/(0.13 mm).

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8.5 MATING VELOCITY

Blind Mate Interface connectors should not be mated together at excessive velocities. Depending on the specifics of the application, excessive mating speeds may not allow sufficient reaction time for the connectors to properly self align and this can cause damage to connector housings and terminals. Molex recommends mating speeds do not exceed 40 mm/sec (1.6 inch/sec) for proper mating.

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