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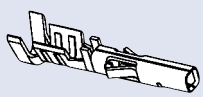
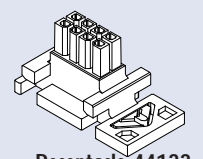
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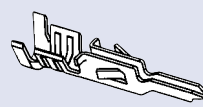
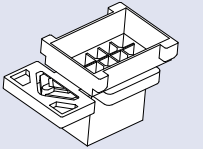
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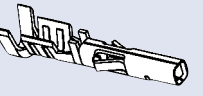
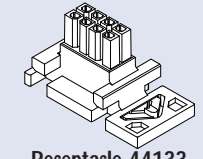


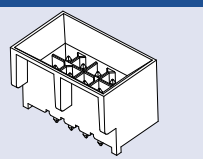
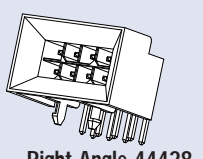
### Wire-to-Wire BMI Connector System


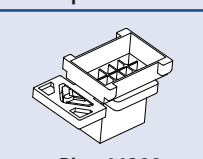
 and   
Female Terminal 43030      Receptacle 44133

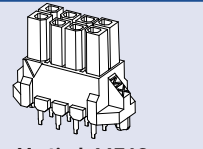
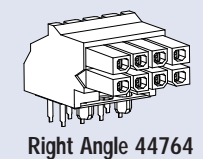
Mate to:  and   
Male Terminal 43031      Plug 44300

### Wire-to-Board BMI Connector System

 and   
Female Terminal 43030      Receptacle 44133

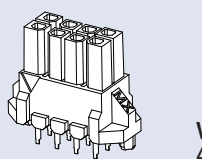
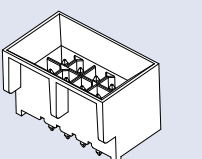
Mate to:  or   
Vertical 44432/45280      Right Angle 44428

 and   
Male Terminal 43031      Plug 44300

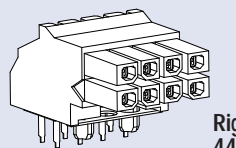
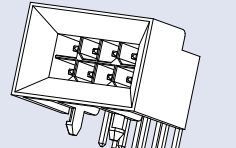
Mate to:  or   
Vertical 44769      Right Angle 44764

### Board-to-Board BMI Connector System

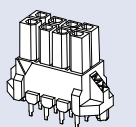
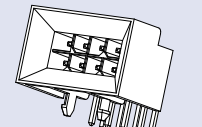
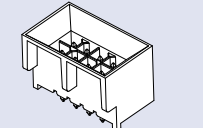
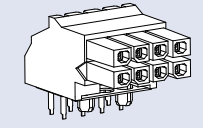
#### Horizontal Boards

 Mate to:   
Vertical 44769      Vertical 44432/45280

#### Coplanar Boards

 Mate to:   
Right Angle 44764      Right Angle 44428

#### Right Angle Boards

 Mate to:  OR  Mate to:   
Vertical 44769      Right Angle 44428      Vertical 44432/45280      Right Angle 44764

MICRO-FIT 3.0 FAMILY APPLICATION EXAMPLES



- Personal Computers
- Mainframe Computers
- Handheld Computers
- Notebook PCs
- Fan Tray Assemblies
- Power Supplies



- Work Stations
- Satellites
- Cellular Telephones
- AC Power Line Cords
- Coffeemakers
- Fax Machines



- Vending Machines
- Pin Ball Machines
- Slot Machines
- Exercise Equipment
- Backplane Applications

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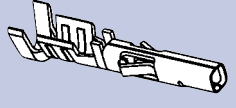
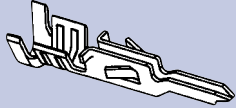
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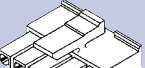

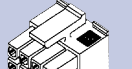

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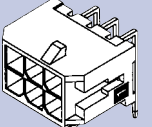
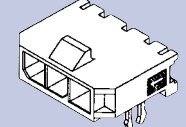
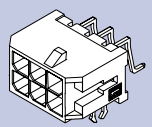
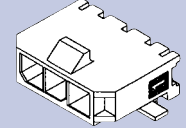
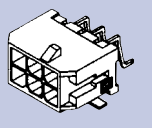
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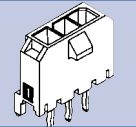
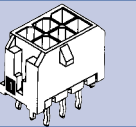
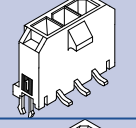
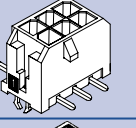
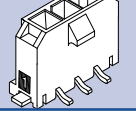
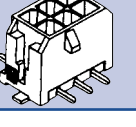
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- Fully isolated contacts
  - Full polarization
  - Positive locks
- Up to 5.0A per circuit
  - 250V AC rating
  - UL 94V-0, CSA, TUV approved

	Description	Order No.		Wire Gauge	Plating
		Reel	Bag		
	Female Terminal	43030-0001	43030-0007	20 - 24	Tin
		43030-0004	43030-0010	26 - 30	
		43030-0002	43030-0008	20 - 24	15µ" Gold
		43030-0005	43030-0011	26 - 30	
		43030-0003	43030-0009	20 - 24	30µ" Gold
		43030-0006	43030-0012	26 - 30	
	Male Terminal	43031-0001	43031-0007	20 - 24	Tin
		43031-0004	43031-0010	26 - 30	
		43031-0002	43031-0008	20 - 24	15µ" Gold
		43031-0005	43031-0011	26 - 30	
		43031-0003	43031-0009	20 - 24	30µ" Gold
		43031-0006	43031-0012	26 - 30	

Crimp Housings							
Description		Order No.	Material	Description		Order No.	Material
Receptacles (Use with 43030 terminals)				Plugs (Use with 43031 terminals)			
	Single Row	43645-XX00	Black Polyester		Single Row, Free Hanging	43640-XX01	Black Polyester
					Single Row, Panel Mount	43640-XX00	
	Dual Row	43025-XX00	Black Polyester		Dual Row, Free Hanging	43020-XX01	Black Polyester
					Dual Row, Panel Mount	43020-XX00	

Single Row	Description	Order No.	Plating	Material	Dual Row	Description	Order No.	Plating	Material
	Surface Mount Compatible with Pegs	43650-XX00	Tin	High Temperature, Black LCP		Surface Mount Compatible with Pegs	43045-XX00	Tin	High Temperature, Black LCP
		43650-XX01	15µ" Gold				43045-XX01	15µ" Gold	
		43650-XX02	30µ" Gold				43045-XX02	30µ" Gold	
	SMT with Solderable Retention Clip	43650-XX09	Tin	High Temperature, Black LCP		SMT with Solderable Retention Clip	43045-XX06	Tin	High Temperature, Black LCP
		43650-XX10	15µ" Gold				43045-XX07	15µ" Gold	
		43650-XX11	30µ" Gold				43045-XX08	30µ" Gold	
	SMT with Solder Tabs	43650-XX12	Tin	High Temperature, Black LCP		SMT with Solder Tabs	43045-XX09	Tin	High Temperature, Black LCP
		43650-XX13	15µ" Gold				43045-XX10	15µ" Gold	
		43650-XX14	30µ" Gold				43045-XX11	30µ" Gold	

Single Row	Description	Order No.	Plating	Material	Dual Row	Description	Order No.	Plating	Material
	Surface Mount Compatible with Pegs	43650-XX15	Tin	High Temperature, Black LCP		Surface Mount Compatible with Pegs	43045-XX12	Tin	High Temperature, Black LCP
		43650-XX16	15µ" Gold				43045-XX13	15µ" Gold	
		43650-XX17	30µ" Gold				43045-XX14	30µ" Gold	
	SMT with Solderable Retention Clip	43650-XX21	Tin	High Temperature, Black LCP		SMT with Solderable Retention Clip	43045-XX15	Tin	High Temperature, Black LCP
		43650-XX22	15µ" Gold				43045-XX16	15µ" Gold	
		43650-XX23	30µ" Gold				43045-XX17	30µ" Gold	
	SMT with Solder Tabs	43650-XX24	Tin	High Temperature, Black LCP		SMT with Solder Tabs	43045-XX18	Tin	High Temperature, Black LCP
		43650-XX25	15µ" Gold				43045-XX19	15µ" Gold	
		43650-XX26	30µ" Gold				43045-XX20	30µ" Gold	

Replace XX with number of circuits, 02 to 24



MICRO-FIT 3.0

**molex®** 3.00mm (.118") Pitch  
Micro-Fit 3.0™ Family

The Micro-Fit 3.0 is a unique connector system that incorporates many of the features previously found only on large power connectors. These connectors are the perfect choice when you need compact connectors that can carry up to 5.0A of current. Micro-Fit 3.0 is available in circuit sizes 2 to 24 for wire-to-board and wire-to-wire applications. With more than 500 part numbers and still growing, this expansive product line offers through hole and SMT options. SMT versions are available in tape and reel packaging for robotic placement on the PCB.

Wire-to-Wire Single Row Connector System



Wire-to-Board Single Row Connector System



Wire-to-Wire Dual Row Connector System



Wire-to-Board Dual Row Connector System



MICRO-FIT 3.0, CPI AND MICRO-FIT 3.0, BMI CPI

The Micro-Fit 3.0, CPI (Compliant Pin Interface) and Micro-Fit 3.0, BMI CPI (Blind Mate Version with Compliant Pin Interface) are vertical header product extensions featuring press-fit PC tails.

- CPI style (Press-Fit) pins require no soldering to the PCB
- 2.36mm (.093") minimum PCB thickness

Standard CPI

	Description	Order No.	Plating	Material
	Standard Vertical CPI	44914-XX01	Tin	High Temperature, Black LCP
		44914-XX02	12µ" Gold	
		44914-XX03	30µ" Gold	

BMI CPI

	Blind Mate Vertical CPI	45280-XX01	Tin	High Temperature, Black Glass-Filled Nylon
		45280-XX02	12µ" Gold	
		45280-XX03	30µ" Gold	

MICRO-FIT 3.0, BMI

**molex®** 3.00mm (.118") Pitch  
Micro-Fit 3.0™ Family

Micro-Fit 3.0, BMI™ (Blind Mate Interface) features an innovative panel mounting design that securely locks the plugs and receptacles in place in the panel cutout, while allowing for removal. The plugs and headers feature a funnel entry to guide the mating receptacle or receptacle header into place. Micro-Fit 3.0, BMI housings and headers mate exclusively with the BMI components shown here.

- Full polarization
- Fully isolated contacts
- Dual row
- Sizes 4 to 24 circuits
- Up to 5.0A per circuit
- Up to 1500V AC dielectric withstand voltage
- UL 94V-0, CSA, TUV approved

Crimp Housings

- Use standard Micro-Fit terminals
- Receptacle floats in panel cutout up to 1.27mm (.050") in any direction
- Can be utilized with BMI board-to-board connectors
- Panel thickness: 1.57mm (.062")

	Description	Order No.	Material
	Panel Mount Receptacle	44133-XX00	Black, Polyester
	Panel Mount Plug	44300-XX00	Black, Polyester

Headers

- Can be utilized with BMI wire-to-wire connectors
- 1.57mm (.062") PCB thickness
- Surface mount compatible (SMC)
- Black, glass filled nylon housings

Right Angle

	Description	Order No.	Plating		Description	Order No.	Plating
	Right Angle Header with Pegs	44428-XX01	Tin		Right Angle Receptacle	44764-XX01	Tin
		44428-XX02	15µ" Gold			44764-XX02	15µ" Gold
		44428-XX03	30µ" Gold			44764-XX03	30µ" Gold

Vertical

	Vertical Header with Pegs	44432-XX01	Tin		Vertical Receptacle	44769-XX01	Tin
		44432-XX02	15µ" Gold			44769-XX02	15µ" Gold
		44432-XX03	30µ" Gold			44769-XX03	30µ" Gold

Replace XX with number of circuits, 04 to 24





# PRODUCT SPECIFICATION

## MICRO-FIT BMI FLOATING CONNECTOR SYSTEM

### 1.0 SCOPE

This Product Specification covers the 3.00 mm (.118 inch) centerline (pitch) connector system terminated with 20 to 30 AWG wire using crimp technology with tin plating.

### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBERS

Micro-Fit Dual Row BMI Floating Receptacle: 44133

Micro-Fit Dual Row BMI Panel Mount Plug: 44300

Micro-Fit Dual Row BMI Receptacle: 44764 and 44769

Micro-Fit Dual Row BMI Headers: 44428 and 44432

Micro-Fit Dual Row BMI Vertical CPI Header : 45280

Test Plug: 44242 (recommended for continuity testing only)

Female Crimp Terminal: 43030

Male Crimp Terminal: 43031

#### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Crimp Terminals: Phosphor Bronze

Receptacle and Plug: Polyester

Headers: High Temp Nylon

Pins: Brass, Modified Tin/Brass, Phosphor Bronze

#### 2.3 SAFETY AGENCY APPROVALS

UL File Number:.... E29179

CSA:..... LR19980

TUV.....72040445

### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

Test Summary: TS-43045-001

### 4.0 RATINGS

#### 4.1 VOLTAGE

UL : 250 Volts AC (MAX) {or 176 Volts DC}

TUV : 250Volts

#### 4.2 CURRENT AND APPLICABLE WIRES

AWG	Amps	Outside Insulation Diameter
20	5	1.85 mm (.073 inch)
22	5	1.85 mm (.073 inch)
24	4	1.85 mm (.073 inch)
26	3	1.27 mm (.050 inch)
28	2	1.27 mm (.050 inch)
30	1	1.27 mm (.050 inch)

#### 4.2.1 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.)

#### 4.3 TEMPERATURE

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

Nonoperating: -40°C to +105°C

REVISION:	Add 8.3 EC No: UCP2007-0365 DATE: 2006/08/08	TITLE:	<b>PRODUCT SPECIFICATION</b> <b>Micro-Fit (3.0)</b> <b>BMI Floating Connector System</b>	SHEET No.	1 of 7
DOCUMENT NUMBER:	<b>PS-44300-001</b>	CREATED / REVISED BY:	M.KIPPER	CHECKED BY:	S.SOUSEK
				APPROVED BY:	F.SMITH





# PRODUCT SPECIFICATION

## 5.0 PERFORMANCE

### 5.1 ELECTRICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
<b>Contact Resistance (Low Level)</b>	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
<b>Contact Resistance @ Rated Current</b>	Mate connectors: apply a maximum voltage of 20 mV at rated current.	30 milliohms MAXIMUM [initial]
<b>Contact Resistance of Wire Termination (Low Level)</b>	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]
<b>Insulation Resistance</b>	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
<b>Dielectric Withstanding Voltage</b>	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
<b>Capacitance</b>	Measure between adjacent terminals at 1 MHz.	2 picofarads MAXIMUM
<b>Temperature Rise (via Current Cycling)</b>	Mate connectors: measure the temperature rise at the rated current after: 96 hours OR 240 hours  (45 minutes ON and 15 minutes OFF per hour).	Temperature rise: +30°C MAXIMUM

### 5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
<b>Connector Mate and Unmate Forces</b>	Mate and unmate connector (male to female) at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute. (per circuit) (Gage dimensions in Section 7.0)	8.0 N (1.8 lbf) MAXIMUM insertion force & 3.7 N (0.8 lbf) MINIMUM withdrawal force
<b>Terminal Retention Force (in Housing)</b>	Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute.	24.5 N (5.5 lbf) MINIMUM retention force

REVISION:	Add 8.3 EC No: UCP2007-0365 DATE: 2006/08/08	TITLE:	<b>PRODUCT SPECIFICATION</b> <b>Micro-Fit (3.0)</b> <b>BMI Floating Connector System</b>	SHEET No.	<b>2 of 7</b>
<b>K</b>					
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
<b>PS-44300-001</b>		<b>M.KIPPER</b>	<b>S.SOUSEK</b>	<b>F.SMITH</b>	





# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
<b>Pin Retention Force (in Header)</b>	Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute.	13.3 N (3.0 lbf) MINIMUM retention force
<b>Terminal Insertion Force (into Housing)</b>	Apply an axial insertion force on the terminal at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).	14.7 N (3.3 lbf) MAXIMUM insertion force
<b>Durability</b>	Mate connectors up to 30 cycles for tin or gold at a maximum rate of 10 cycles per minute prior to Environmental Tests.	10 milliohms MAXIMUM (change from initial)
<b>Vibration (Random)</b>	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
<b>Shock (Mechanical)</b>	Mate connectors and shock at 50 g's with $\frac{1}{2}$ sine wave (11 milliseconds) shocks in the $\pm X, \pm Y, \pm Z$ axes (18 shocks total).	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
<b>Wire Pullout Force (Axial) Wire to Terminal</b>	Apply an axial pullout force on the wire at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).	20 Awg: 57.9 N (13.0 lbf) 22 Awg: 35.5 N (8.0 lbf) 24 Awg: 26.6 N (6.0 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) MINIMUM pullout force
<b>Normal Force</b>	Apply a perpendicular force.	2.7 N (0.6 lbf) MINIMUM
<b>Panel Retention Forces</b>	Insert and withdraw a connector at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute.	200 N (45 lbf) MINIMUM withdrawal force
<b>Fretting Corrosion (Hammer Shock)</b>	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)
<b>Compliant Pin Insertion Force into PCB Hole (45280 Series)</b>	Apply an axial insertion force on the terminal at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).	106.7 N (24 lbf) MAXIMUM Insertion force (Per Terminal)
<b>Compliant Pin Retention Force in PCB Hole (45280 Series)</b>	Apply an axial extraction force on the terminal at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).	35.6 N (8 lbf) MINIMUM Retention force (Per Terminal)

REVISION:	Add 8.3	TITLE:	<b>PRODUCT SPECIFICATION</b>	SHEET No.
<b>K</b>	EC No: UCP2007-0365		<b>Micro-Fit (3.0)</b>	<b>3 of 7</b>
	DATE: 2006/08/08		<b>BMI Floating Connector System</b>	

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
<b>PS-44300-001</b>	<b>M.KIPPER</b>	<b>S.SOUSEK</b>	<b>F.SMITH</b>





# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT										
<b>Fretting Corrosion (Thermal Shock)</b>	Mate connectors: expose for 1,000 cycles between temperatures 25 and 85°C; dwell 0.5 hours at each temperature.  {Note: Remove surface moisture and air dry for 1 hour prior to measurements; monitor low level contact resistance every 250 cycles.}	10 milliohms MAXIMUM (change from initial)										
<b>Shock (Thermal)</b>	Mate connectors; expose to 5 cycles of: <table><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>+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></table>	<u>Temperature °C</u>	<u>Duration (Minutes)</u>	-40 +0/-3	30	+25 ±10	5 MAXIMUM	+105 +3/-0	30	+25 ±10	5 MAXIMUM	10 milliohms MAXIMUM (change from initial)
<u>Temperature °C</u>	<u>Duration (Minutes)</u>											
-40 +0/-3	30											
+25 ±10	5 MAXIMUM											
+105 +3/-0	30											
+25 ±10	5 MAXIMUM											
<b>Thermal Aging</b>	Mate connectors; expose to: 96 hours at 105 ± 2°C or 500 hours at 85 ± 2°C	10 milliohms MAXIMUM (change from initial)										
<b>Humidity (Steady State)</b>	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										
<b>Humidity (Cyclic)</b>	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										

REVISION:	Add 8.3 EC No: UCP2007-0365 DATE: 2006/08/08	<u>TITLE:</u> <b>PRODUCT SPECIFICATION</b> <b>Micro-Fit (3.0)</b> <b>BMI Floating Connector System</b>			<u>SHEET No.</u>  <b>4 of 7</b>
<u>DOCUMENT NUMBER:</u> <b>PS-44300-001</b>		<u>CREATED / REVISED BY:</u> <b>M.KIPPER</b>	<u>CHECKED BY:</u> <b>S.SOUSEK</b>	<u>APPROVED BY:</u> <b>F.SMITH</b>	





# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS

<b>Solderability</b>	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
<b>Solder Resistance</b>	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 260°C MAX  (This simulates a Wave Solder Process)	Visual: No Damage to insulator material
<b>Cold Resistance</b>	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	10 milliohms MAXIMUM (change from initial)
<b>Corrosive Atmosphere: Flowing Mixed Gas (FMG)</b>	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 Receptacle: PK-44133-001  
BMI Panel Mount Plug: PK-44300-001  
BMI Receptacles: PK-44764-001, PK-44769-001  
BMI Headers: PK-44428-001, PK-44432-001  
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.

## 8.0 CONNECTOR ALIGNMENT

See next sheet

REVISION:	Add 8.3 <b>K</b> EC No: UCP2007-0365 DATE: 2006/08/08	TITLE:	<b>PRODUCT SPECIFICATION Micro-Fit (3.0) BMI Floating Connector System</b>	SHEET No.	<b>5 of 7</b>
DOCUMENT NUMBER:	<b>PS-44300-001</b>	CREATED / REVISED BY:	<b>M.KIPPER</b>	CHECKED BY:	<b>S.SOUSEK</b>
				APPROVED BY:	<b>F.SMITH</b>

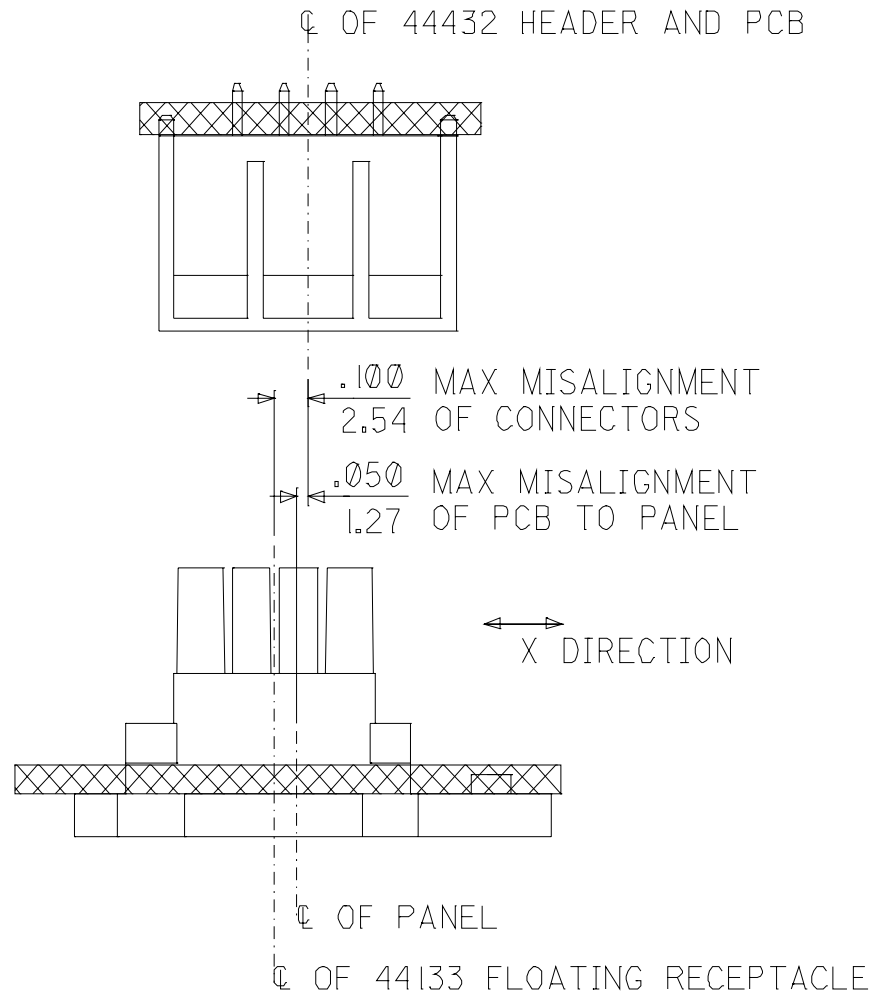




# PRODUCT SPECIFICATION

## 8.0 CONNECTOR ALIGNMENT

### 8.1 Misalignment applies to "X" and "Y" directions



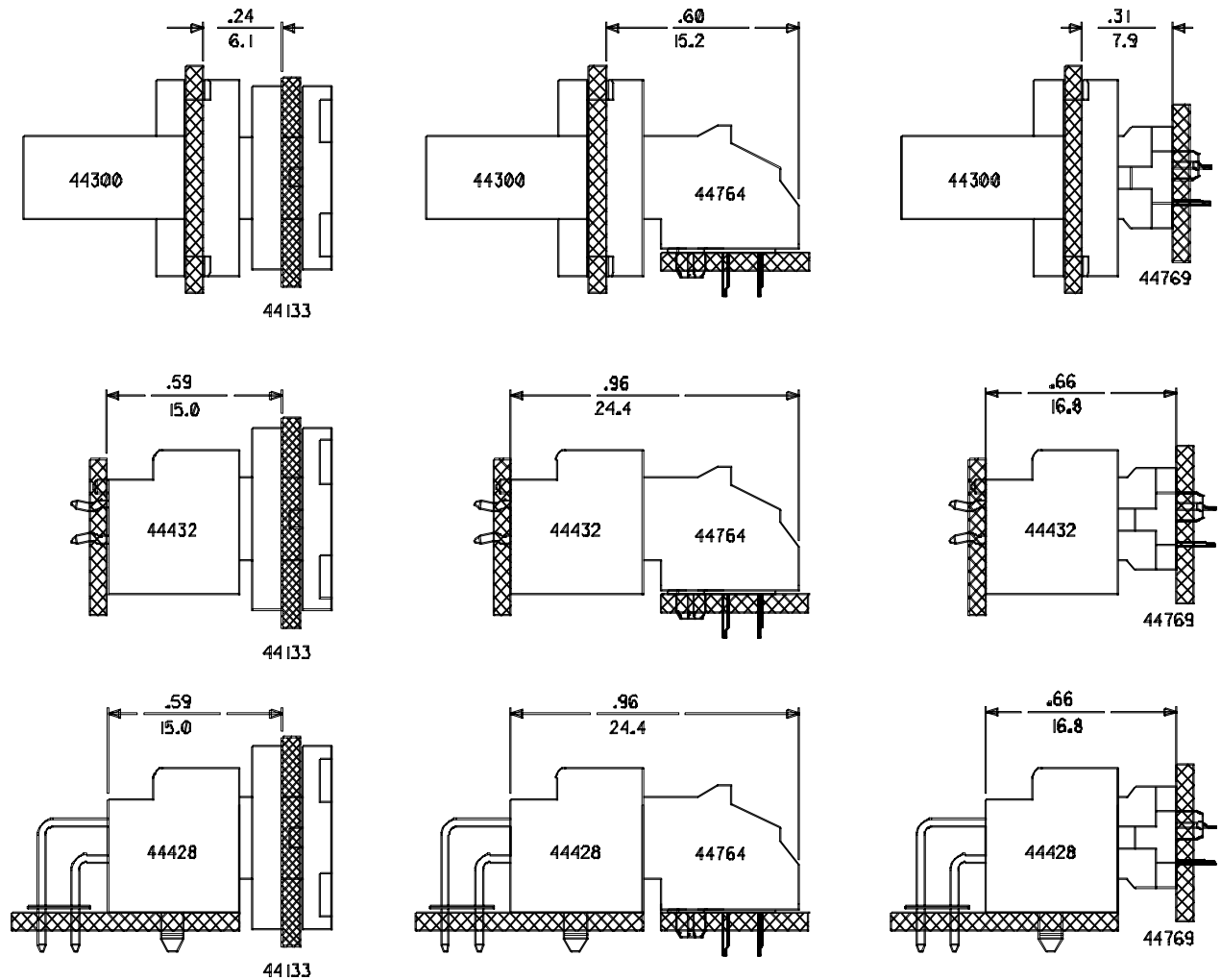
REVISION:	Add 8.3	TITLE:	PRODUCT SPECIFICATION	SHEET No.
<b>K</b>	EC No: UCP2007-0365		Micro-Fit (3.0)	6 of 7
	DATE: 2006/08/08		BMI Floating Connector System	
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:	
<b>PS-44300-001</b>	<b>M.KIPPER</b>	<b>S.SOUSEK</b>	<b>F.SMITH</b>	





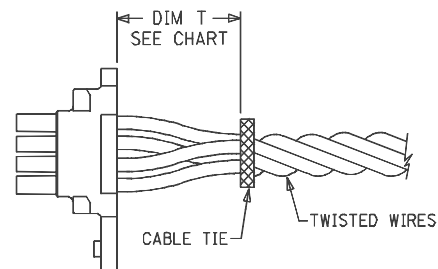
# PRODUCT SPECIFICATION

## 8.2 Mated Dimensions



## 8.3 TIE WRAP AND/OR WIRE TWISTING PLACEMENT

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

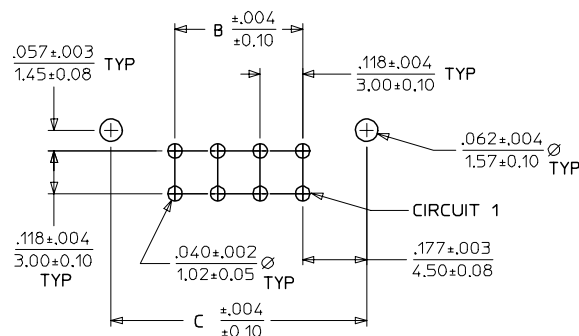
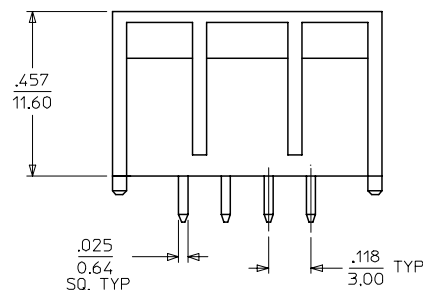
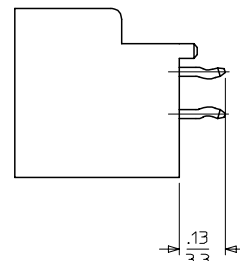
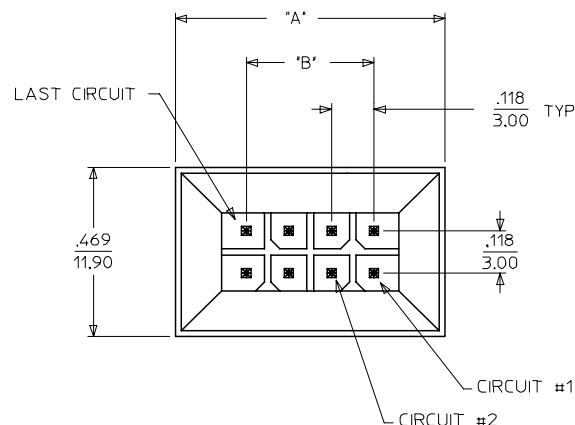


REVISION:	Add 8.3 EC No: UCP2007-0365 DATE: 2006/08/08	TITLE:	<b>PRODUCT SPECIFICATION</b> <b>Micro-Fit (3.0)</b> <b>BMI Floating Connector System</b>	SHEET No.	7 of 7
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DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
<b>PS-44300-001</b>	<b>M.KIPPER</b>	<b>S.SOUSEK</b>	<b>F.SMITH</b>



13 12 11 10 9 8 7 6 5 4 3 2 44432



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS .062/1.57

CIRCUIT SIZE	"A"	"B"	C
04	.512 13.00	.118 3.00	.472 12.00
06	.630 16.00	.236 6.00	.590 15.00
08	.748 19.00	.354 9.00	.709 18.00
10	.866 22.00	.472 12.00	.827 21.00
12	.984 25.00	.590 15.00	.945 24.00
14	1.102 28.00	.709 18.00	1.063 27.00
16	1.220 31.00	.827 21.00	1.181 30.00
18	1.338 34.00	.945 24.00	1.299 33.00
20	1.457 37.00	1.063 27.00	1.417 36.00
22	1.575 40.00	1.181 30.00	1.535 39.00
24	1.693 43.00	1.299 33.00	1.653 42.00

# NOTES :

## 1. MATERIALS -

HOUSING : NYLON , GLASS-FILLED, UL94V-0 COLOR - BLACK  
TERMINAL : BRASS ALLOY

## 2. FINISH:

A = .000200/(0.00508) MIN. TIN OVER .000050/(0.00127) MIN. NICKEL.

B = .000015/(0.00038) MIN. SELECT GOLD IN CONTACT AREA,  
.000100/(0.00254) MIN. SELECT TIN ON SOLDER TAILS,  
BOTH OVER .000050/(0.00127) MIN. NICKEL.

C = .000030/(0.00076) MIN. SELECT GOLD IN CONTACT AREA,  
.000100/(0.00254) MIN. SELECT TIN ON SOLDER TAILS,  
BOTH OVER .000050/(0.00127) MIN. NICKEL.



\* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO  
RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."  
CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN/LEAD  
IN THE PC TAIL AREA.

3. PRODUCT SPECIFICATION : PS-44300-001

4. PACKAGING SPECIFICATION : PK-44432-001

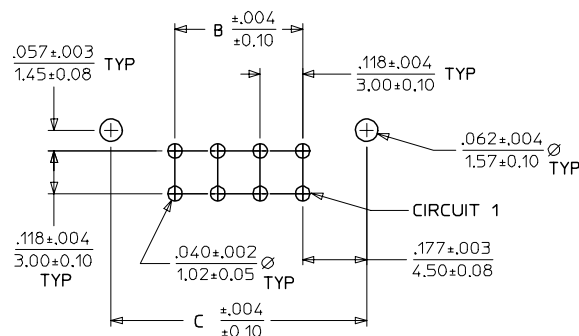
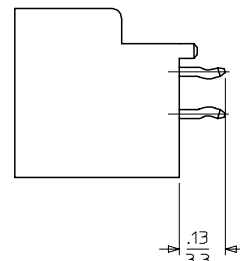
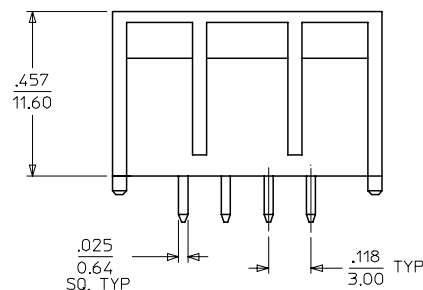
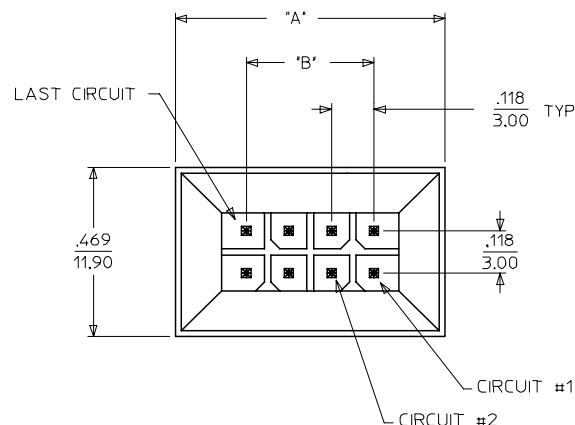
5. THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE  
(SEE DRAWING SD-44133-001) & FEMALE CRIMP TERMINAL (SEE DRAWING SD-43030-\*\*\*\*)

6. SEE SHEET 2 FOR PART NUMBER CHART.

LEAD FREE EC NO: UCP2004-1228 DRAWN: JERNY 2004/03/12 CHKD: 2004/03/31 APPR: F. SMITH 2004/04/05	DESCRIPTION	QUALITY SYMBOLS  ▽ = 0  ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
			mm	INCH	DIMENSION STYLE			TITLE		
					IN/MM			MICRO FIT (3.0)		
			4 PLACES ± --- ± ---		DRAWN BY	DATE		DUAL ROW VERTICAL		
			3 PLACES ± --- ± .010		MUELLER	1999/11/29		BMI HEADER ASS'Y		
CHD	REV		2 PLACES ± 0.25 ± .015		CHECKED BY	DATE	 MOLEX MOLEX INCORPORATED			
			1 PLACE ± 0.38 ± ---		MUELLER	1999/11/29				
			ANGULAR ± 1/2°		APPROVED BY	DATE		MATERIAL NO.	DOCUMENT NO.	SHEET NO.
			DRAFT WHERE APPLICABLE		EDGLEY	1999/11/30		SEE CHART	SD-44432-001	1 OF 2
			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



13 12 11 10 9 8 7 6 5 4 3 2 44432



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS .062/1.57

CIRCUIT SIZE	"A"	"B"	C
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18	1.338 34.00	.945 24.00	1.299 33.00
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3. PRODUCT SPECIFICATION : PS-44300-001

4. PACKAGING SPECIFICATION : PK-44432-001

5. THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE  
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LEAD FREE EC NO: UCP2004-1228 DRAWN: JERNY 2004/03/12 CHKD: 2004/03/31 APPR: F. SMITH 2004/04/05	DESCRIPTION	QUALITY SYMBOLS  ▽ = 0  ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY					
			mm	INCH	DIMENSION STYLE			TITLE					
					IN/MM			MICRO FIT (3.0)					
					DRAWN BY	DATE		DUAL ROW VERTICAL					
					MUELLER	1999/11/29		BMI HEADER ASS'Y					
DRAFT	REV		2 PLACES ± 0.25 ± .015		CHECKED BY	DATE	 MOLEX MOLEX INCORPORATED	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
			1 PLACE ± 0.38 ± ---		MUELLER	1999/11/29							
			ANGULAR ± 1/2°		APPROVED BY	DATE					SEE CHART	SD-44432-001	1 OF 2
			DRAFT WHERE APPLICABLE		EDGLEY	1999/11/30							
			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



