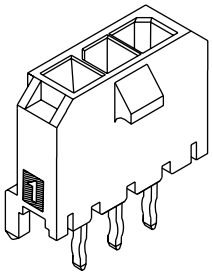
Jameco Part Number 1300582

## FEATURES AND SPECIFICATIONS

# 3.00mm (.118") Pitch Micro-Fit 3.0™ Wire-to-Board Header

# 43650 Single Row Vertical



### *Features and Benefits*

- "Offset Terminal Retention" for optimum retention to PC board during wave soldering
- Fully polarized to mating receptacle
- Peg feature provides polarization to PCB
- Surface Mount Compatible

### *Reference Information*

Product Specification: PS-43650
Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R95107
Mates With: 43645
Designed In: Millimeters

### *Electrical*

Voltage: 250V
Current: 5.0A max.
Contact Resistance: 10mΩ max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 1000 MΩ min.

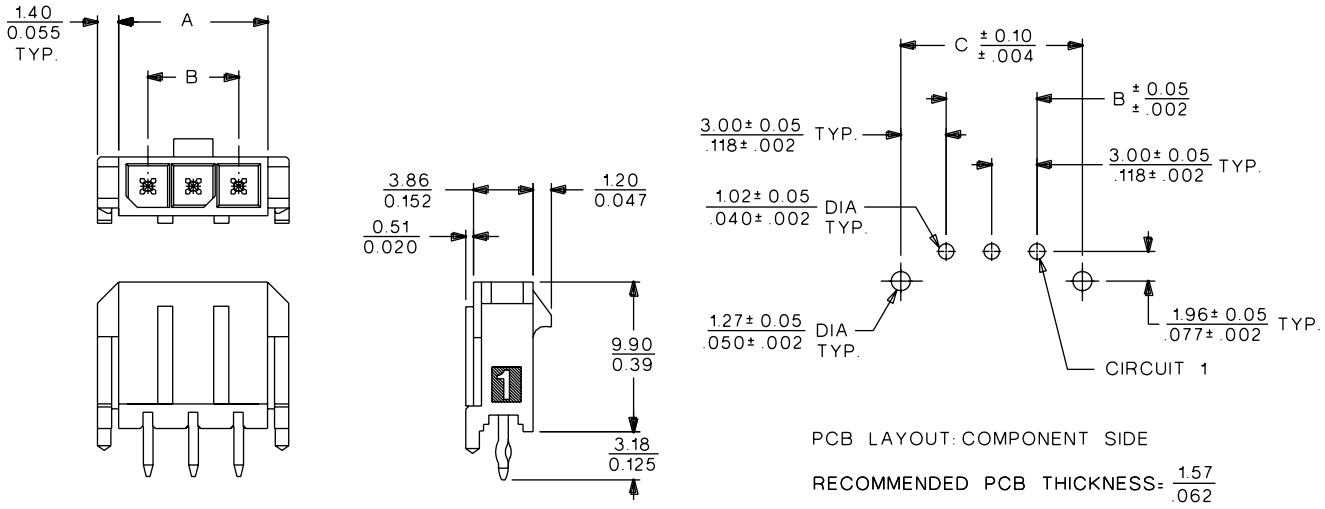
### *Mechanical*

Insertion Force to PCB: 7.5kgf max. (16.5 lb)

### *Physical*

Housing: High temperature LCP, UL 94V-0
Contact: Brass
Plating: Tin or Gold

## CATALOG DRAWING (FOR REFERENCE ONLY)

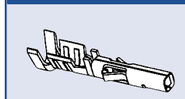



## ORDERING INFORMATION AND DIMENSIONS

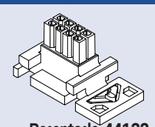
| Circuits | Order No. | | | | | | Dimension | | |
|---|---|---|---|---|---|---|---|---|---|
| | Standard "OTR" Version | | | Straight Tail Version | | | | | |
| | Tin | 15µ" Gold | 30µ" Gold | Tin | 15µ" Gold | 30µ" Gold | A | B | C |
| 2 | 43650-0215 | 43650-0216 | 43650-0217 | 43650-0227 | 43650-0228 | 43650-0229 | 6.85 (.270) | 3.00 (.118) | 9.00 (.354) |
| 3 | 43650-0315 | 43650-0316 | 43650-0317 | 43650-0327 | 43650-0328 | 43650-0329 | 9.85 (.388) | 6.00 (.236) | 12.00 (.472) |
| 4 | 43650-0415 | 43650-0416 | 43650-0417 | 43650-0427 | 43650-0428 | 43650-0429 | 12.85 (.506) | 9.00 (.354) | 15.00 (.591) |
| 5 | 43650-0515 | 43650-0516 | 43650-0517 | 43650-0527 | 43650-0528 | 43650-0529 | 15.85 (.624) | 12.00 (.472) | 18.00 (.708) |
| 6 | 43650-0615 | 43650-0616 | 43650-0617 | 43650-0627 | 43650-0628 | 43650-0629 | 18.85 (.742) | 15.00 (.591) | 21.00 (.827) |
| 7 | 43650-0715 | 43650-0716 | 43650-0717 | 43650-0727 | 43650-0728 | 43650-0729 | 21.85 (.860) | 18.00 (.709) | 24.00 (.945) |
| 8 | 43650-0815 | 43650-0816 | 43650-0817 | 43650-0827 | 43650-0828 | 43650-0829 | 24.85 (.978) | 21.00 (.827) | 27.00 (1.063) |
| 9 | 43650-0915 | 43650-0916 | 43650-0917 | 43650-0927 | 43650-0928 | 43650-0929 | 27.85 (1.096) | 24.00 (.945) | 30.00 (1.181) |
| 10 | 43650-1015 | 43650-1016 | 43650-1017 | 43650-1027 | 43650-1028 | 43650-1029 | 30.85 (1.215) | 27.00 (1.063) | 33.00 (1.299) |
| 11 | 43650-1115 | 43650-1116 | 43650-1117 | 43650-1127 | 43650-1128 | 43650-1129 | 33.85 (1.333) | 30.00 (1.181) | 36.00 (1.417) |
| 12 | 43650-1215 | 43650-1216 | 43650-1217 | 43650-1227 | 43650-1228 | 43650-1229 | 36.85 (1.451) | 33.00 (1.299) | 39.00 (1.535) |

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

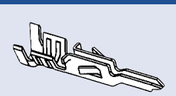
## Wire-to-Wire BMI Connector System


Female Terminal 43030

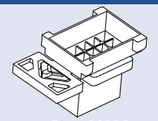
and


Receptacle 44133

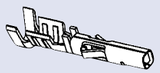
Mate to:


Male Terminal 43031

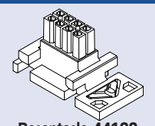
and


Plug 44300

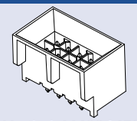
## Wire-to-Board BMI Connector System


Female Terminal 43030

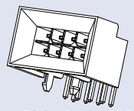
and

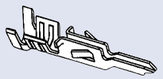

Receptacle 44133

Mate to:

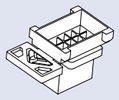

Vertical 44432 / 45280

or

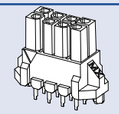

Right Angle 44428


Male Terminal 43031

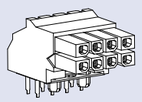
and


Plug 44300

Mate to:

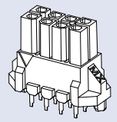

Vertical 44769

or

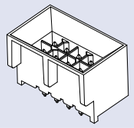

Right Angle 44764

## Board-to-Board BMI Connector System

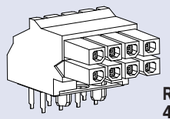
### Horizontal Boards


Vertical 44769

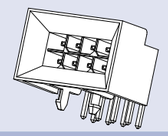
Mate to:


Vertical 44432 / 45280

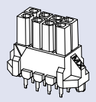
### Coplanar Boards


Right Angle 44764

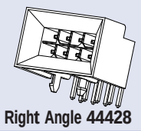
Mate to:


Right Angle 44428

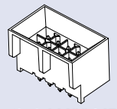
### Right Angle Boards


Vertical 44769

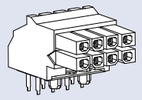
Mate to:


Right Angle 44428

OR


Vertical 44432 / 45280

Mate to:


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

**Americas Headquarters**
Lisle, Illinois 60532 U.S.A.
Tel: 1-800-78MOLEX
Fax: 630-969-1352

**Far East North Headquarters**
Yamato, Kanagawa, Japan
Tel: 81-462-65-2324
Fax: 81-462-65-2366

**Far East South Headquarters**
Jurong, Singapore
Tel: 65-6-268-6868
Fax: 65-6-265-2985

**European Headquarters**
Munich, Germany
Tel: 49-89-413092-0
Fax: 49-89-401527

**Corporate Headquarters**
2222 Wellington Ct.
Lisle, IL 60532 U.S.A.
Tel: 630-969-4550
Fax: 630-969-1352

Visit our Web site at http: //www.molex.com

Order No. USA-106 Rev. 3

Printed in USA/5K/JI/JI/2006.01

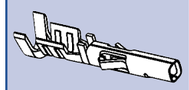
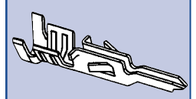




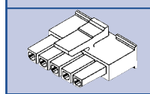
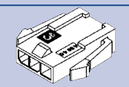
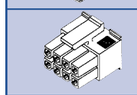
molex® 3.00mm (.118") Pitch Micro-Fit 3.0™ Family

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

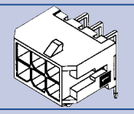
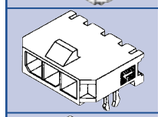
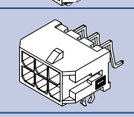
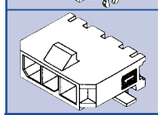
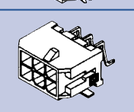
## Crimp Terminals

| | Description | Order No. Reel | Order No. Bag | Wire Gauge | Plating |
|---|---|---|---|---|---|
|  | 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 | |

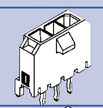
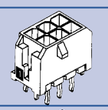
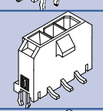
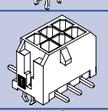
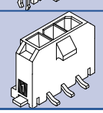
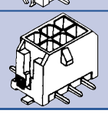
## Crimp Housings

| | 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 | |

## Right Angle Headers

| 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 | |

## Vertical Headers

| 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

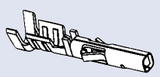
## MICRO-FIT 3.0

# 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.

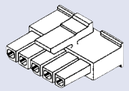
Micro-Fit 3.0 is available in circuit sizes 2 to 24 for wire-to-board and wire-to-wire applications. With more than 500 part numbers and still growing, this expansive product line offers through hole and SMT options. SMT versions are available in tape and reel packaging for robotic placement on the PCB.

### Wire-to-Wire Single Row Connector System



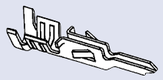
Female Terminal 43030

and



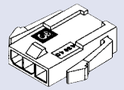
Receptacle 43645

Mate to:



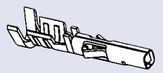
Male Terminal 43031

and



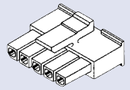
Plug 43640

### Wire-to-Board Single Row Connector System



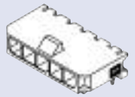
Female Terminal 43030

and



Receptacle 43645

Mate to:

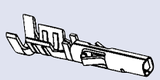


Right Angle SMT with Clips 43650

or

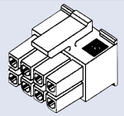
Any 43650 Header

### Wire-to-Wire Dual Row Connector System



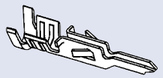
Female Terminal 43030

and



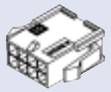
Receptacle 43025

Mate to:



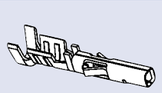
Male Terminal 43031

and



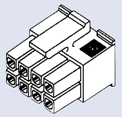
Plug 43020

### Wire-to-Board Dual Row Connector System



Female Terminal 43030

and



Receptacle 43025

Mate to:

Vertical SMT with Nails 43045

or

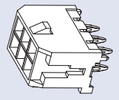
Any 43045 or 44914 Header

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

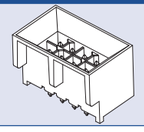
The Micro-Fit 3.0, CPI (Compliant Pin Interface) and Micro-Fit 3.0, BMI CPI (Blind Mate Version with Compliant Pin Interface) are vertical header product extensions featuring press-fit PC tails.

- 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

| | Description | Order No. | Plating | Material |
|---|---|---|---|---|
|  | 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

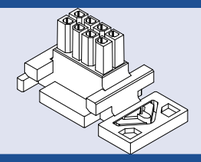
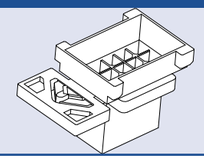
# 3.00mm (.118") Pitch Micro-Fit 3.0™ Family

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

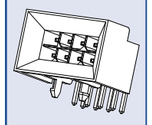
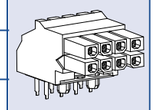
- Use standard Micro-Fit terminals
- Receptacle floats in panel cutout up to 1.27mm (.050") in any direction
- Can be utilized with BMI board-to-board connectors
- Panel thickness: 1.57mm (.062")

| | Description | Order No. | Material |
|---|---|---|---|
| Use with 43030 terminal  | Panel Mount Receptacle | 44133-XX00 | Black, Polyester |
| Use with 43031 terminal  | Panel Mount Plug | 44300-XX00 | Black, Polyester |

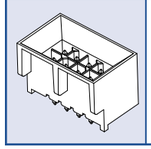
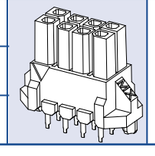
### Headers

- 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

| | Description | Order No. | Plating | | Description | Order No. | Plating |
|---|---|---|---|---|---|---|---|
|  | 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 SINGLE ROW CONNECTOR SYSTEM

### 1.0 SCOPE

This Product Specification covers the 3.00 mm (.118 inch) centerline (pitch) square pin headers when mated with either printed circuit board (PCB) connector or connectors terminated with 20 to 30 AWG wire using crimp technology.

### 2.0 PRODUCT DESCRIPTION

2.1 **PRODUCT NAME AND SERIES NUMBERS**

Receptacle: 43645 Female Crimp Terminal: 43030
Plug: 43640 Male Crimp Terminal: 43031
Headers: 43650
Test Plug: 44242 (recommended for continuity testing only)
Other products conforming to this specification are noted on the individual drawings.

2.2 **DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS**

Housings: Receptacle and Plug - Polyester; Headers - LCP
Crimp Terminals: Phosphor Bronze
Pins: Brass

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: 250 Volts

**4.2 CURRENT 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.)

| 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

## 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. (Does not include wire resistance) | 10 milliohms MAXIMUM [initial] |
| **Contact Resistance @ Rated Current** | Mate connectors: apply a maximum voltage of 20 mV at rated current. | 30 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:<br>1) 96 hours (steady state)<br>2) 240 hours (45 minutes ON and 15 minutes OFF per hour)<br>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 & 3.7 N (0.8 lbf) MINIMUM withdrawal force |
| **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 |
| **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 at a maximum rate of 10 cycles per minute prior to Environmental Tests. | 20 milliohms MAXIMUM (change from initial) |
| **Vibration (Random)** | Mate connectors and vibrate per EIA 364-28, test condition VII. | 20 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). | 20 milliohms MAXIMUM (change from initial]) & Discontinuity < 1 microsecond |
| **Wire Pullout Force (Axial)** | Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. | MINIMUM pullout force<br>20 awg: 57.8 N (13.0 lbf)<br>22 awg: 35.6 N (8.0 lbf)<br>24 awg: 22.2 N (5.0 lbf)<br>26 awg: 13.3 N (3.0 lbf)<br>28 awg: 8.9 N (2.0 lbf)<br>30 awg: 6.6 N (1.5 lbf) |
| **Normal Force** | Apply a perpendicular force. | 2.7 N (0.6 lbf) MINIMUM |
| **Pin to Header Retention** | Apply axial push force to pin at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. | 13.7 N (3.1 lbf) MINIMUM pushout force |
| **Thumb Latch to Ramp Yield Strength** | Full mate and then Unmate the connectors at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. | 68.4 N (15.4 lbf) MINIMUM Yield Strength |

### 5.3 ENVIRONMENTAL REQUIREMENTS

| DESCRIPTION | TEST CONDITION | REQUIREMENT |
|---|---|---|
| **Thermal Aging** | Mate connectors; expose to:<br>240 hours at 105 ± 2°C<br>OR<br>500 hours at 85 ± 2°C | 20 milliohms MAXIMUM<br>(change from initial) |
| **Humidity (Steady State)** | Mate connectors: expose to a temperature of 40 ± 2°C with a relative humidity of 90-95% for 96 hours.<br><br>Note: Remove surface moisture and air dry for 1 hour prior to measurements. | 20 milliohms MAXIMUM<br>(change from initial)<br>&<br>Dielectric Withstanding Voltage:<br>No Breakdown at 500 VAC<br>&<br>Insulation Resistance:<br>1000 Megohms MINIMUM |
| **Solderability** | Per SMES-152 | Solder coverage:<br>95% MINIMUM<br>(per SMES-152) |
| **Solder Resistance** | A) Wave Solder Process<br>Dip connector terminal tails in solder;<br>Solder Duration: 5 ± 0.5 seconds;<br>Solder Temperature: 260°C MAX<br><br>B) Convection Reflow Solder Process<br>235°C MAX Per SMES-152 | Visual:<br>No Damage to insulator material |
| **Cold Resistance** | Mate connectors:<br>Duration: 96 hours;<br>Temperature: -40 ± 3°C | 20 milliohms MAXIMUM<br>(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:

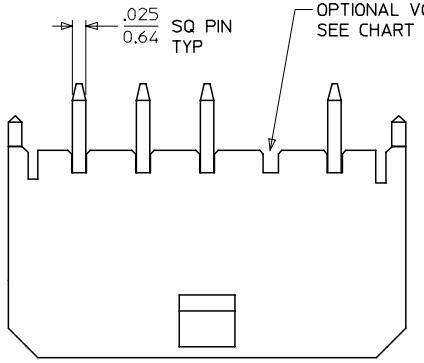
Receptacle: PK-43645-001
Plug: PK-43640-001
Headers: PK-70873-0321, PK-70873-0811, PK-70873-07**

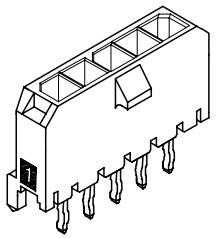
## 7.0 GAGES AND FIXTURES

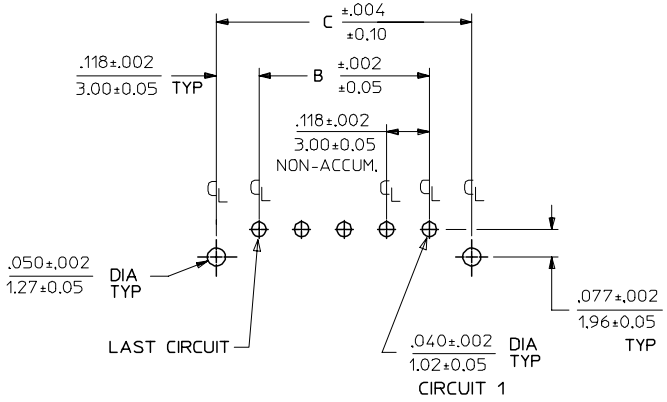
It is recommended that test plugs (Series 44242) be used for continuity testing of receptacles. Standard mating parts should not be used for harness testing.

## 8.0 OTHER INFORMATION

43650

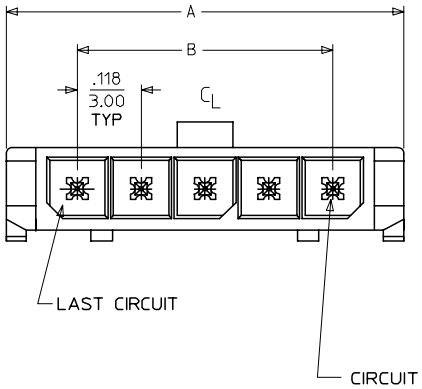


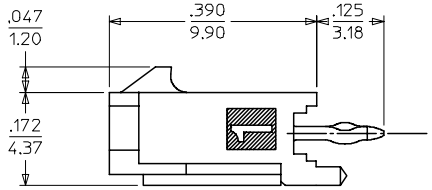



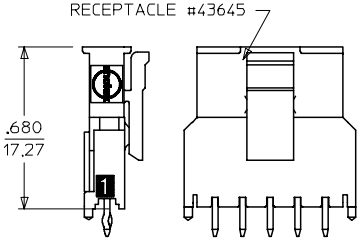



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57

| CKTS | A | B | C |
|---|---|---|---|
| 2 | .380<br>9.65 | .118<br>3.00 | .354<br>9.00 |
| 3 | .498<br>12.65 | .236<br>6.00 | .472<br>12.00 |
| 4 | .616<br>15.65 | .354<br>9.00 | .591<br>15.00 |
| 5 | .734<br>18.64 | .472<br>12.00 | .709<br>18.00 |
| 6 | .852<br>21.64 | .591<br>15.00 | .827<br>21.00 |
| 7 | .970<br>24.64 | .709<br>18.00 | .945<br>24.00 |
| 8 | 1.088<br>27.64 | .827<br>21.00 | 1.063<br>27.00 |
| 9 | 1.206<br>30.63 | .945<br>24.00 | 1.181<br>30.00 |
| 10 | 1.325<br>33.66 | 1.063<br>27.00 | 1.299<br>33.00 |
| 11 | 1.443<br>36.65 | 1.181<br>30.00 | 1.417<br>36.00 |
| 12 | 1.561<br>39.65 | 1.299<br>33.00 | 1.535<br>39.00 |




MATED MICRO FIT CONNECTORS

NOTES:

1. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, GLASS FILLED, UL94V-0, COLOR: BLACK
   TERMINAL MATERIAL: BRASS ALLOY
2. FINISH:
   A = .000100/(0.00254) 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) NICKEL OVERALL
   C = .000030/(0.00076) MIN. SELECT GOLD IN CONTACT AREA .000100/(0.00254) MIN. SELECT TIN ON SOLDER TAILS BOTH OVER .000050/(0.00127) NICKEL OVERALL
   * 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-43650
4. MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43645
5. TRAY PACKAGED : SEE MOLEX DRAWING PK-70873-0811

| | FINISH A | |
|---|---|---|
| CKTS | MATERIAL NO: | VOID CKT |
| 02 | 43650-0215 | |
| 03 | 43650-0315 | |
| 04 | 43650-0415 | |
| 05 | 43650-0515 | |
| 06 | 43650-0615 | |
| 07 | 43650-0715 | |
| 08 | 43650-0815 | |
| 09 | 43650-0915 | |
| 10 | 43650-1015 | |
| 11 | 43650-1115 | |
| 12 | 43650-1215 | |
| 03 | 43650-0330 | 02 |
| 05 | 43650-9915 | 03 |
| 06 | 43650-0630 | 02,04,05 |

| | FINISH B | |
|---|---|---|
| CKTS | MATERIAL NO: | VOID CKT |
| 02 | 43650-0216 | |
| 03 | 43650-0316 | |
| 04 | 43650-0416 | |
| 05 | 43650-0516 | |
| 06 | 43650-0616 | |
| 07 | 43650-0716 | |
| 08 | 43650-0816 | |
| 09 | 43650-0916 | |
| 10 | 43650-1016 | |
| 11 | 43650-1116 | |
| 12 | 43650-1216 | |
| 04 | 43650-0431 | 02,03 |
| | | |

| | FINISH C | |
|---|---|---|
| CKTS | MATERIAL NO: | VOID CKT |
| 02 | 43650-0217 | |
| 03 | 43650-0317 | |
| 04 | 43650-0417 | |
| 05 | 43650-0517 | |
| 06 | 43650-0617 | |
| 07 | 43650-0717 | |
| 08 | 43650-0817 | |
| 09 | 43650-0917 | |
| 10 | 43650-1017 | |
| 11 | 43650-1117 | |
| 12 | 43650-1217 | |
| 04 | 43650-0430 | 02,03 |
| | | |

LEAD FREE
EC NO: UCP2004-1276 2004/03/12
DRWN: JCERNY 2004/03/31
CHKD:
APPR: FSMITH 2004/04/05
DESCRIPTION
REV

QUALITY SYMBOLS
▼ = 0
▽ (C) = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .010 |
| 2 PLACES | ± 0.25 | ± .014 |
| 1 PLACE | ± 0.36 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE: IN/MM
DRAWN BY: SAMIEC DATE: 2000/07/07
CHECKED BY: MUELLER DATE: 2000/07/07
APPROVED BY: EDGLEY DATE: 2000/07/07

TITLE: MICRO-FIT (3.0) SINGLE ROW / VERTICAL THRU HOLE / PEGS / TRAY
MOLEX INCORPORATED
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-43650-006
SHEET NO.: 1 OF 1



C

tb_frame_C_P_ME_T
Rev. C 2002/05/05