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ELECTRONICS

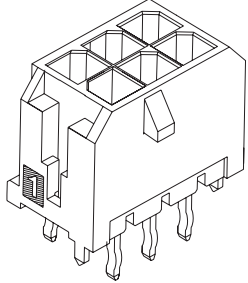
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Jameco Part Number 1970041

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

**43045**  
Dual 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-43045  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Mechanical

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

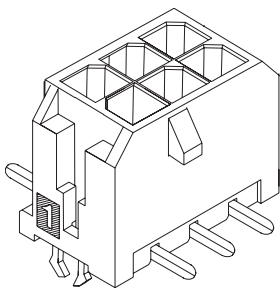
### Physical

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

Circuits	Order No.						Lead-free
	Standard "OTR" Version			Straight Tail Version			
	Tin	15µ" Gold	30µ" Gold	Tin	15µ" Gold	30µ" Gold	
2	<a href="#">43045-0212</a>	<a href="#">43045-0213</a>	<a href="#">43045-0214</a>	<a href="#">43045-0227</a>	<a href="#">43045-0228</a>	<a href="#">43045-0229</a>	Yes
4	<a href="#">43045-0412</a>	<a href="#">43045-0413</a>	<a href="#">43045-0414</a>	<a href="#">43045-0427</a>	<a href="#">43045-0428</a>	<a href="#">43045-0429</a>	
6	<a href="#">43045-0612</a>	<a href="#">43045-0613</a>	<a href="#">43045-0614</a>	<a href="#">43045-0627</a>	<a href="#">43045-0628</a>	<a href="#">43045-0629</a>	
8	<a href="#">43045-0812</a>	<a href="#">43045-0813</a>	<a href="#">43045-0814</a>	<a href="#">43045-0827</a>	<a href="#">43045-0828</a>	<a href="#">43045-0829</a>	
10	<a href="#">43045-1012</a>	<a href="#">43045-1013</a>	<a href="#">43045-1014</a>	<a href="#">43045-1027</a>	<a href="#">43045-1028</a>	<a href="#">43045-1029</a>	
12	<a href="#">43045-1212</a>	<a href="#">43045-1213</a>	<a href="#">43045-1214</a>	<a href="#">43045-1227</a>	<a href="#">43045-1228</a>	<a href="#">43045-1229</a>	
14	<a href="#">43045-1412</a>	<a href="#">43045-1413</a>	<a href="#">43045-1414</a>	<a href="#">43045-1427</a>	<a href="#">43045-1428</a>	<a href="#">43045-1429</a>	
16	<a href="#">43045-1612</a>	<a href="#">43045-1613</a>	<a href="#">43045-1614</a>	<a href="#">43045-1627</a>	<a href="#">43045-1628</a>	<a href="#">43045-1629</a>	
18	<a href="#">43045-1812</a>	<a href="#">43045-1813</a>	<a href="#">43045-1814</a>	<a href="#">43045-1827</a>	<a href="#">43045-1828</a>	<a href="#">43045-1829</a>	
20	<a href="#">43045-2012</a>	<a href="#">43045-2013</a>	<a href="#">43045-2014</a>	<a href="#">43045-2027</a>	<a href="#">43045-2028</a>	<a href="#">43045-2029</a>	
22	<a href="#">43045-2212</a>	<a href="#">43045-2213</a>	<a href="#">43045-2214</a>	<a href="#">43045-2227</a>	<a href="#">43045-2228</a>	<a href="#">43045-2229</a>	
24	<a href="#">43045-2412</a>	<a href="#">43045-2413</a>	<a href="#">43045-2414</a>	<a href="#">43045-2427</a>	<a href="#">43045-2428</a>	<a href="#">43045-2429</a>	

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

**43045**  
Dual Row, Vertical, SMT  
With Solderable Retention Clip



### Features and Benefits

- Solderable retention clip provides optimum retention to PCB
- Fully polarized to mating receptacle
- Tape and reel packaging eliminates handling and provides for higher insertion speeds compared to tray packing or hand assembly

### Reference Information

Product Specification: PS-43045  
Packaging: Tape and reel  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Mechanical

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

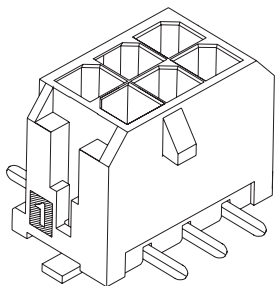
### Physical

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

Circuits	Order No.			Lead-free	Circuits	Order No.			Lead-free
	Tin	15µ" Gold	30µ" Gold			Tin	15µ" Gold	30µ" Gold	
2	<a href="#">43045-0215</a>	<a href="#">43045-0216</a>	<a href="#">43045-0217</a>	Yes	14	<a href="#">43045-1415</a>	<a href="#">43045-1416</a>	<a href="#">43045-1417</a>	Yes
4	<a href="#">43045-0415</a>	<a href="#">43045-0416</a>	<a href="#">43045-0417</a>		16	<a href="#">43045-1615</a>	<a href="#">43045-1616</a>	<a href="#">43045-1617</a>	
6	<a href="#">43045-0615</a>	<a href="#">43045-0616</a>	<a href="#">43045-0617</a>		18	<a href="#">43045-1815</a>	<a href="#">43045-1816</a>	<a href="#">43045-1817</a>	
8	<a href="#">43045-0815</a>	<a href="#">43045-0816</a>	<a href="#">43045-0817</a>		20	<a href="#">43045-2015</a>	<a href="#">43045-2016</a>	<a href="#">43045-2017</a>	
10	<a href="#">43045-1015</a>	<a href="#">43045-1016</a>	<a href="#">43045-1017</a>		22	<a href="#">43045-2215</a>	<a href="#">43045-2216</a>	<a href="#">43045-2217</a>	
12	<a href="#">43045-1215</a>	<a href="#">43045-1216</a>	<a href="#">43045-1217</a>		24	<a href="#">43045-2415</a>	<a href="#">43045-2416</a>	<a href="#">43045-2417</a>	

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

**43045**  
Dual Row, Vertical, SMT  
With Solderable Fitting Nail



### Features and Benefits

- Solder tabs provide retention to PCB
- Fully polarized to mating receptacle
- Tape and reel packaging eliminates handling and provides for higher PCB board placement speeds compared to tray packing or hand assembly

### Reference Information

Product Specification: PS-43045  
Packaging: Tape and reel  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Physical

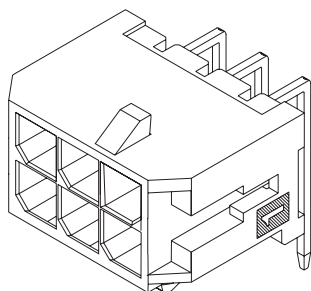
Housing: High temperature LCP, UL 94V-0  
Contact: Brass  
Plating: Tin or Gold

Circuits	Order No.			Lead-free
	Tin	15µ" Gold	30µ" Gold	
2	<a href="#">43045-0218</a>	<a href="#">43045-0219</a>	<a href="#">43045-0220</a>	Yes
4	<a href="#">43045-0418</a>	<a href="#">43045-0419</a>	<a href="#">43045-0420</a>	
6	<a href="#">43045-0618</a>	<a href="#">43045-0619</a>	<a href="#">43045-0620</a>	
8	<a href="#">43045-0818</a>	<a href="#">43045-0819</a>	<a href="#">43045-0820</a>	
10	<a href="#">43045-1018</a>	<a href="#">43045-1019</a>	<a href="#">43045-1020</a>	
12	<a href="#">43045-1218</a>	<a href="#">43045-1219</a>	<a href="#">43045-1220</a>	

Circuits	Order No.			Lead-free
	Tin	15µ" Gold	30µ" Gold	
14	<a href="#">43045-1418</a>	<a href="#">43045-1419</a>	<a href="#">43045-1420</a>	Yes
16	<a href="#">43045-1618</a>	<a href="#">43045-1619</a>	<a href="#">43045-1620</a>	
18	<a href="#">43045-1818</a>	<a href="#">43045-1819</a>	<a href="#">43045-1820</a>	
20	<a href="#">43045-2018</a>	<a href="#">43045-2019</a>	<a href="#">43045-2020</a>	
22	<a href="#">43045-2218</a>	<a href="#">43045-2219</a>	<a href="#">43045-2220</a>	
24	<a href="#">43045-2418</a>	<a href="#">43045-2419</a>	<a href="#">43045-2420</a>	

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

**43045**  
Dual Row  
Right Angle



### Features and Benefits

- Snap-in peg locks header to PCB for optimum retention
- Fully polarized to mating receptacle
- Surface Mount Compatible

### Reference Information

Product Specification: PS-43045  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Mechanical

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

### Physical

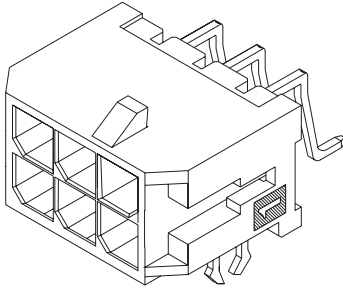
Housing: High temperature LCP, UL 94V-0  
Contact: Brass  
Plating: Tin or Gold

Circuits	Order No.			Lead-free
	Tin	15µ" Gold	30µ" Gold	
2	<a href="#">43045-0200</a>	<a href="#">43045-0201</a>	<a href="#">43045-0202</a>	Yes
4	<a href="#">43045-0400</a>	<a href="#">43045-0401</a>	<a href="#">43045-0402</a>	
6	<a href="#">43045-0600</a>	<a href="#">43045-0601</a>	<a href="#">43045-0602</a>	
8	<a href="#">43045-0800</a>	<a href="#">43045-0801</a>	<a href="#">43045-0802</a>	
10	<a href="#">43045-1000</a>	<a href="#">43045-1001</a>	<a href="#">43045-1002</a>	
12	<a href="#">43045-1200</a>	<a href="#">43045-1201</a>	<a href="#">43045-1202</a>	

Circuits	Order No.			Lead-free
	Tin	15µ" Gold	30µ" Gold	
14	<a href="#">43045-1400</a>	<a href="#">43045-1401</a>	<a href="#">43045-1402</a>	Yes
16	<a href="#">43045-1600</a>	<a href="#">43045-1601</a>	<a href="#">43045-1602</a>	
18	<a href="#">43045-1800</a>	<a href="#">43045-1801</a>	<a href="#">43045-1802</a>	
20	<a href="#">43045-2000</a>	<a href="#">43045-2001</a>	<a href="#">43045-2002</a>	
22	<a href="#">43045-2200</a>	<a href="#">43045-2201</a>	<a href="#">43045-2202</a>	
24	<a href="#">43045-2400</a>	<a href="#">43045-2401</a>	<a href="#">43045-2402</a>	

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

## 43045 Dual Row, Right Angle, SMT With Solderable Retention Clip



### Features and Benefits

- Solderable retention clip provides optimum retention to PCB
- Fully polarized to mating receptacle
- Tape and reel packaging eliminates handling and provides higher insertion speed compared to tray packing or hand assembly

### Reference Information

Product Specification: PS-43045  
Packaging: Tape and reel  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Mechanical

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

### Physical

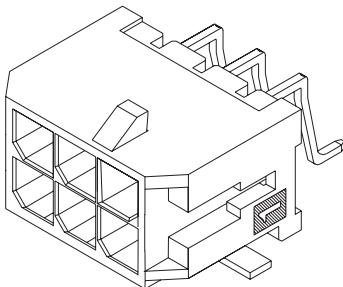
Housing: High temperature LCP, UL 94V-0  
Contact: Brass  
Plating: Tin or Gold

Circuits	Order No.			Lead-free
	Tin	15µm Gold	30µm Gold	
2	<a href="#">43045-0206</a>	<a href="#">43045-0207</a>	<a href="#">43045-0208</a>	Yes
4	<a href="#">43045-0406</a>	<a href="#">43045-0407</a>	<a href="#">43045-0408</a>	
6	<a href="#">43045-0606</a>	<a href="#">43045-0607</a>	<a href="#">43045-0608</a>	
8	<a href="#">43045-0806</a>	<a href="#">43045-0807</a>	<a href="#">43045-0808</a>	
10	<a href="#">43045-1006</a>	<a href="#">43045-1007</a>	<a href="#">43045-1008</a>	
12	<a href="#">43045-1206</a>	<a href="#">43045-1207</a>	<a href="#">43045-1208</a>	

Circuits	Order No.			Lead-free
	Tin	15µm Gold	30µm Gold	
14	<a href="#">43045-1406</a>	<a href="#">43045-1407</a>	<a href="#">43045-1408</a>	Yes
16	<a href="#">43045-1606</a>	<a href="#">43045-1607</a>	<a href="#">43045-1608</a>	
18	<a href="#">43045-1806</a>	<a href="#">43045-1807</a>	<a href="#">43045-1808</a>	
20	<a href="#">43045-2006</a>	<a href="#">43045-2007</a>	<a href="#">43045-2008</a>	
22	<a href="#">43045-2206</a>	<a href="#">43045-2207</a>	<a href="#">43045-2208</a>	
24	<a href="#">43045-2406</a>	<a href="#">43045-2407</a>	<a href="#">43045-2408</a>	

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

## 43045 Dual Row, Right Angle, SMT With Solderable Fitting Nail



### Features and Benefits

- Solder tabs provide retention to PCB
- Fully polarized to mating receptacle
- Tape and reel packaging eliminates handling and provides higher insertion speeds compared to tray packing or hand assembly

### Reference Information

Product Specification: PS-43045  
Packaging: Tape and reel  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R72040445  
Mates With: 43025  
Designed In: Millimeters

### Electrical

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

### Physical

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

Circuits	Order No.			Lead-free
	Tin	15µm Gold	30µm Gold	
2	<a href="#">43045-0209</a>	<a href="#">43045-0210</a>	<a href="#">43045-0211</a>	Yes
4	<a href="#">43045-0409</a>	<a href="#">43045-0410</a>	<a href="#">43045-0411</a>	
6	<a href="#">43045-0609</a>	<a href="#">43045-0610</a>	<a href="#">43045-0611</a>	
8	<a href="#">43045-0809</a>	<a href="#">43045-0810</a>	<a href="#">43045-0811</a>	
10	<a href="#">43045-1009</a>	<a href="#">43045-1010</a>	<a href="#">43045-1011</a>	
12	<a href="#">43045-1209</a>	<a href="#">43045-1210</a>	<a href="#">43045-1211</a>	

Circuits	Order No.			Lead-free
	Tin	15µm Gold	30µm Gold	
14	<a href="#">43045-1409</a>	<a href="#">43045-1410</a>	<a href="#">43045-1411</a>	Yes
16	<a href="#">43045-1609</a>	<a href="#">43045-1610</a>	<a href="#">43045-1611</a>	
18	<a href="#">43045-1809</a>	<a href="#">43045-1810</a>	<a href="#">43045-1811</a>	
20	<a href="#">43045-2009</a>	<a href="#">43045-2010</a>	<a href="#">43045-2011</a>	
22	<a href="#">43045-2209</a>	<a href="#">43045-2210</a>	<a href="#">43045-2211</a>	
24	<a href="#">43045-2409</a>	<a href="#">43045-2410</a>	<a href="#">43045-2411</a>	



# PRODUCT SPECIFICATION

## MICRO-FIT

### 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: 43025      Terminal: 43030  
Plug: 43020            Terminal: 43031  
Headers: 43045, 44914

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: Polyester or LCP  
Terminal: Phosphor Bronze  
Pins: Brass, Modified Tin/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: 43025, 43045, and 44914 series: 600 Volts AC RMS or DC.

43020 series: 350 Volts AC RMS or 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	Max. 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)

Non-operating: - 40°C to + 105°C

<b>REVISION:</b> <b>M3</b>	<b>ECR/ECN INFORMATION:</b> EC No: <b>UCP2009-0508</b> DATE: <b>2008/08/26</b>	<b>TITLE:</b> <b>PRODUCT SPECIFICATION MICRO-FIT DUAL ROW CONNECTORS</b>	<b>SHEET No.</b> <b>1 of 7</b>
<b>DOCUMENT NUMBER:</b> <b>PS-43045</b>	<b>CREATED / REVISED BY:</b> <b>GAVERILL</b>	<b>CHECKED BY:</b> <b>SSOUSEK</b>	<b>APPROVED BY:</b> <b>FSMITH</b>



# 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. (Does not include wire resistance)	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: 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
<b>Connector Mate and Unmate Forces</b>	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
<b>Terminal Retention Force (in Housing)</b>	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
<b>Terminal Insertion Force (into Housing)</b>	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

REVISION: <b>M3</b>	ECR/ECN INFORMATION: EC No: <b>UCP2009-0508</b> DATE: <b>2008/08/26</b>	TITLE: <b>PRODUCT SPECIFICATION MICRO-FIT DUAL ROW CONNECTORS</b>	SHEET No. <b>2 of 7</b>
DOCUMENT NUMBER: <b>PS-43045</b>	CREATED / REVISED BY: <b>GAVERRILL</b>	CHECKED BY: <b>SSOUSEK</b>	APPROVED BY: <b>FSMITH</b>



# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS

<b>Durability</b>	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)
<b>Vibration (Random)</b>	Mate connectors and vibrate per EIA 364-28, test condition VII, Letter D. Test Duration: 15 minutes each axis.	20 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
<b>Shock (Mechanical)</b>	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
<b>Wire Pullout Force (Axial)</b> (Wire from Terminal)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	MINIMUM pullout force 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)
<b>Normal Force</b>	Apply a perpendicular force.	2.7 N (0.6 lbf) MINIMUM
<b>Pin to Header Retention</b>	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
<b>Thumb Latch to Ramp Yield Strength</b>	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
<b>Panel Mount Retention</b>	Full mate and then Unmate the connectors at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	155.7 N (35 lbf) MINIMUM pushout force
<b>Compliant Pin Insertion Force into PCB Hole (44914 Series)</b>	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	106.7 N (24 lbf) MAXIMUM Insertion force (Per Terminal)
<b>Compliant Pin Retention Force in PCB Hole (44914 Series)</b>	Apply an axial extraction force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	35.6 N (8 lbf) MINIMUM Retention force (Per Terminal)

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## 5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
<b>Thermal Aging</b>	Mate connectors; expose to: 240 hours at 105 ± 2°C OR 500 hours at 85 ± 2°C	20 milliohms MAXIMUM (change from initial)]
<b>Humidity (Steady State)</b>	Mate connectors: expose to a temperature of 40 ± 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.	20 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM
<b>Solderability</b>	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
<b>Solder Resistance</b>	<b>A) Wave Solder Process</b> Dip connector terminal tails in solder; Solder Duration: 10 seconds MAX Solder Temperature: 260°C MAX Per ES-40000-5013  <b>B) Convection Reflow Solder Process</b> 235°C MAX Per ES-40000-5013  Parts identified with a green dot on the primary shipping carton label and all parts with a manufacturing date after 11/1/2007: 260°C MAX Per ES-40000-5013	Visual: No Damage to insulator material
<b>Cold Resistance</b>	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	20 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:

Receptacle and Plug: Bulk Packaged

Headers: PK-70873-0313, PK-70873-0314, PK-70873-05\*\*.

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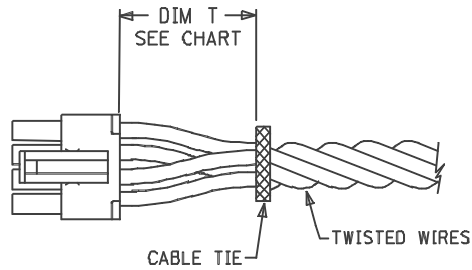
## 7.0 GAGES AND FIXTURES

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

### 8.1 CABLE TIE AND OR WIRE TWIST LOCATION

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

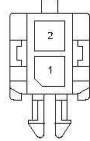


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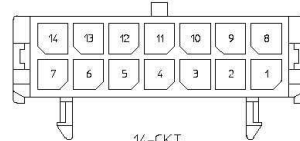


# PRODUCT SPECIFICATION

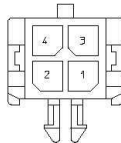
## 8.2 STANDARD POLARIZATION FOR HEADERS AND PLUGS (HEADERS ARE SHOWN)



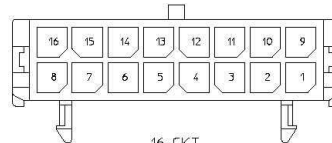
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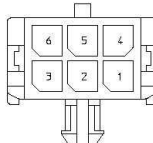
14-CKT.



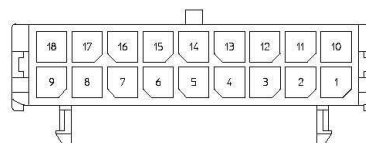
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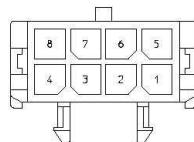
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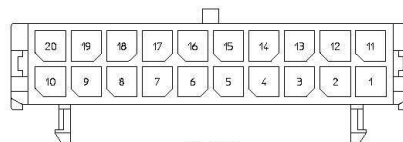
6-CKT.



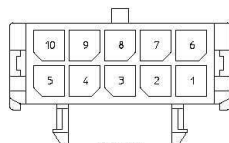
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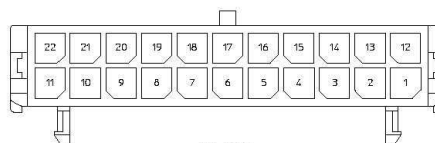
8-CKT.



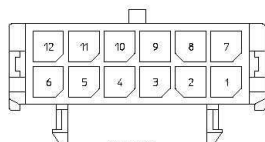
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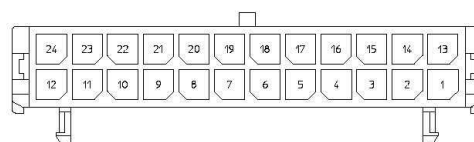
10-CKT.



22-CKT.



12-CKT.



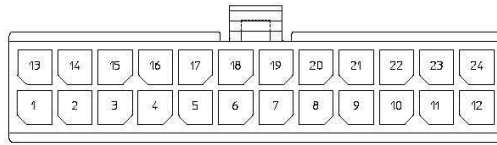
24-CKT.

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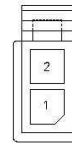


# PRODUCT SPECIFICATION

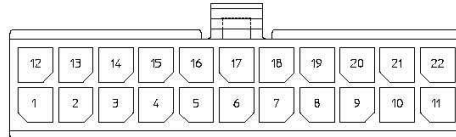
## 8.3 STANDARD POLARIZATION FOR RECEPTACLES



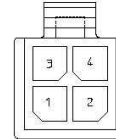
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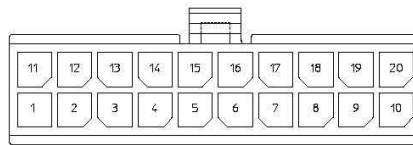
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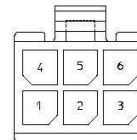
22-CKT.



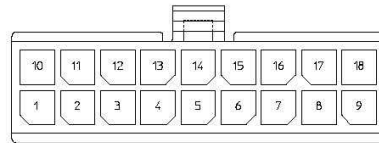
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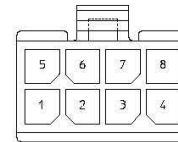
20-CKT.



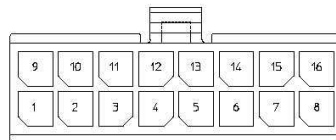
6-CKT.



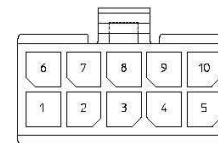
18-CKT.



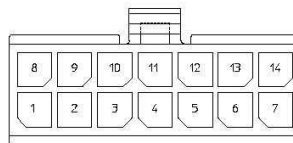
8-CKT.



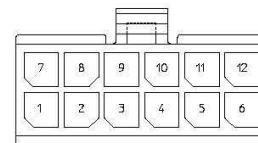
16-CKT.



10-CKT.



14-CKT.



12-CKT.

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