

### 2.00mm (.079") Pitch Connectors

Dual Row Wire-to-Board, Flex-to-Board and Board-to-Board Connectors – Milli-Grid™	B-2 to B-13
Single/Dual Row Multi-Harness Wire-to-Wire and Wire-to-Board Connectors – Mi II™	B-14 to B-20
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Wire-to-Wire Connectors	B-26 to B-27
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### 2.50mm (.098") Pitch Connectors

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# 2.00mm (.079") Pitch Milli-Grid™

## Introduction

Molex's Milli-Grid family of high density connectors is based on a 2.00 x 2.00mm grid pattern. The system offers complete design flexibility for wire-to-board, board-to-board and cable-to-board connections in PC, consumer, telecom and other electronic industries.

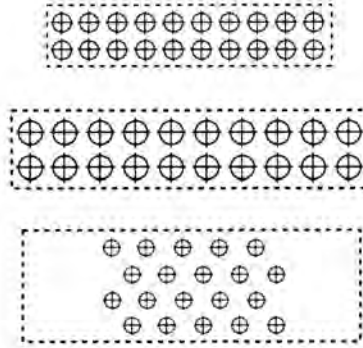
Compared to traditional 2.54mm (.100") pitch connectors, Milli-Grid connectors offer up to 40% savings in PCB real estate.

The Milli-Grid family includes crimp terminals, housings, headers and receptacles. The crimp terminals feature an early entry design that provides longer wiping action for more reliable contact. The receptacles boast a choice of mating styles in top, side and bottom entry in PCB, IDT and FPC versions. Headers are available in both shrouded and unshrouded styles.

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

**B**

## The 2.00mm Advantage



(Milli-Grid vs. 2.54 and 1.27mm Pitch)

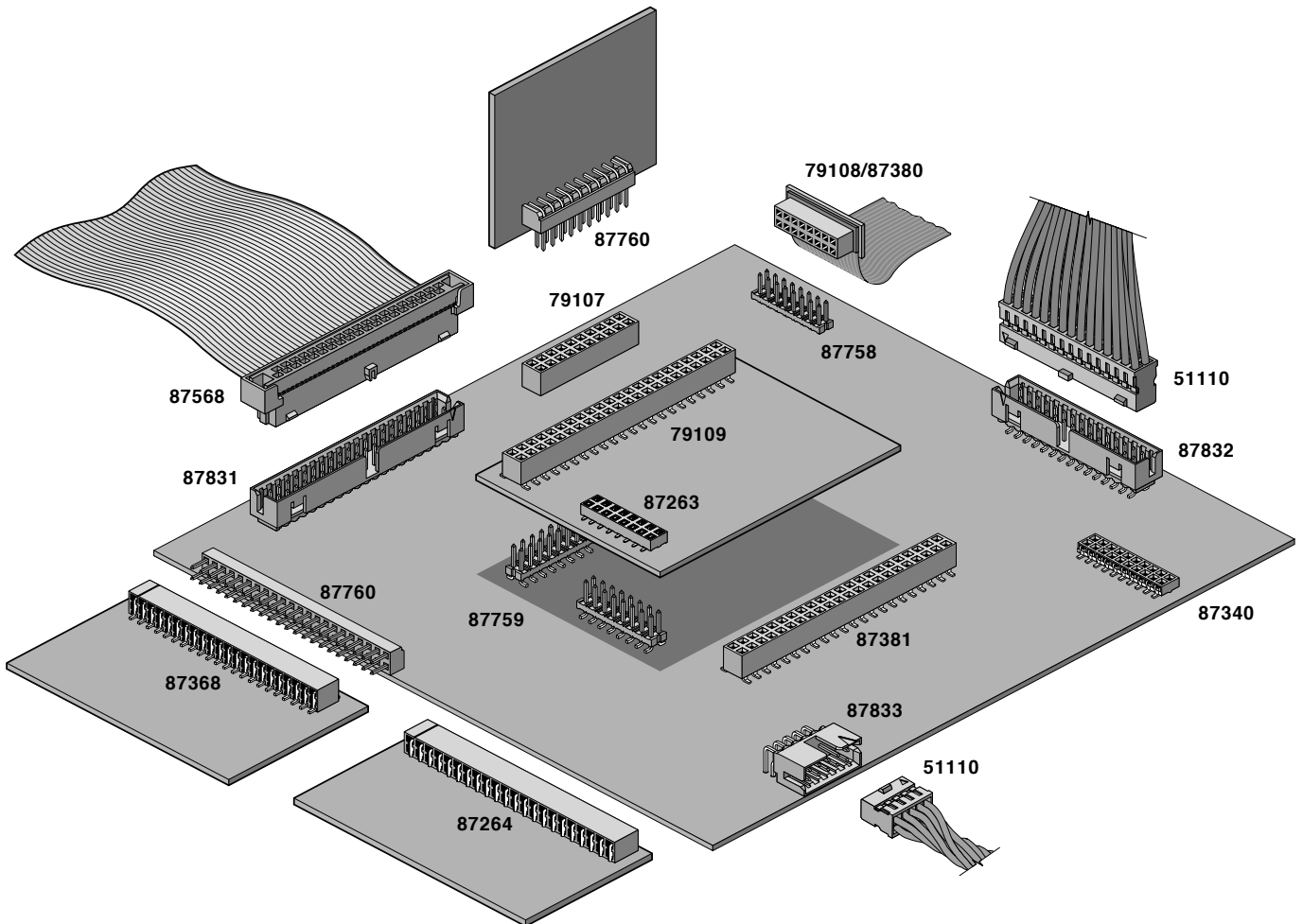
20-Circuit PCB Usage Comparison

Milli-Grid = 80mm<sup>2</sup>

2.54mm Pitch = 125mm<sup>2</sup>

1.27mm Pitch = 185mm<sup>2</sup>


## Application Overview


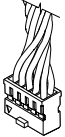
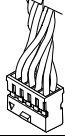



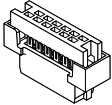
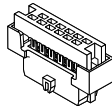
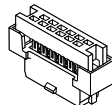
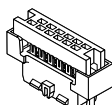
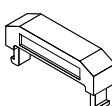
# Milli-Grid™ 2.00mm (.079") Pitch Interconnection System Wire-to-Board System

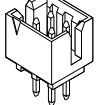
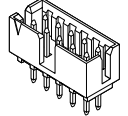
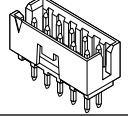
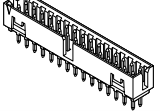
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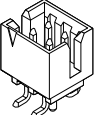
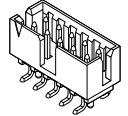
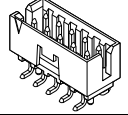
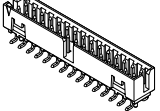
**2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors**

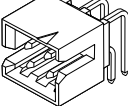
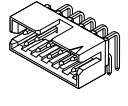
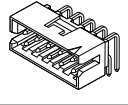
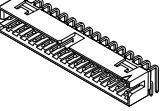
Early Entry System Terminal			
	Order No.	Packaging	Plating
	<a href="#">50394-8051</a>	Reel	15µ" min. Select Gold
	<a href="#">50394-8100</a>	Bag	15µ" min. Select Gold
	<a href="#">50394-8052</a>	Reel	30µ" min. Select Gold
	<a href="#">50394-8200</a>	Bag	30µ" min. Select Gold

Crimp Housings			
	Circuits	Order No.	Features
	4 to 32	51110-XX50	Plain
	8 to 12	51110-XX51	Center Polarization Key
	4 to 12	51110-XX60	Center Polarization Ramp
	14 to 32	51110-XX51	Locking Ramp and Polarization Key

IDT Housings and Strain Relief			
	10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	87568-XX63	Plain Front 15µ" Gold
		87568-XX64	Plain Front 30µ" Gold
	14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	87568-XX43	Center Polarization Ramp 15µ" Gold
		87568-XX44	Center Polarization Ramp 30µ" Gold
	10 and 12	87568-XX73	Center Locking Ramp 15µ" Gold
		87568-XX74	Center Locking Ramp 30µ" Gold
	14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	87568-XX93	Locking Ramp and Polarization Key 15µ" Gold
		87568-XX94	Locking Ramp and Polarization Key 30µ" Gold
	10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44 and 50	87569-10XX	Strain Relief

Shrouded Headers			
Through Hole	Circuits	Order No.	Features
	4 to 6	87831-XX20	Plain 15µ" Gold
		87831-XX21	Plain 30µ" Gold
	8 to 12	87831-XX20	Center Polarization Slot 15µ" Gold
		87831-XX21	Center Polarization Slot 30µ" Gold
	4 to 12	87831-XX41	Center Locking Window 15µ" Gold
		87831-XX42	Center Locking Window 30µ" Gold
	14 to 50	87831-XX20	Center Polarization Slot and Locking Window 15µ" Gold
		87831-XX21	Center Polarization Slot and Locking Window 30µ" Gold

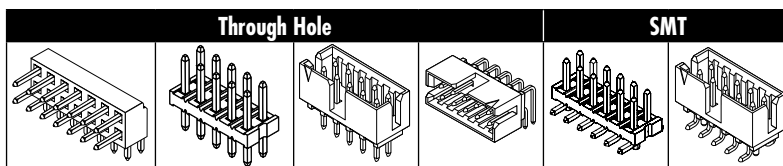
SMT			
	4 to 6	87832-XX20	Plain 15µ" Gold
		87832-XX21	Plain 30µ" Gold
	8 to 12	87832-XX20	Center Polarization Slot 15µ" Gold
		87832-XX21	Center Polarization Slot 30µ" Gold
	4 to 12	87832-XX10	Center Locking Window 15µ" Gold
		87832-XX11	Center Locking Window 30µ" Gold
	14 to 50	87832-XX20	Center Polarization Slot and Locking Window 15µ" Gold
		87832-XX21	Center Polarization Slot and Locking Window 30µ" Gold

Right Angle			
	4 to 6	87833-XX20	Plain 15µ" Gold
		87833-XX21	Plain 30µ" Gold
	8 to 12	87833-XX20	Center Polarization Slot 15µ" Gold
		87833-XX21	Center Polarization Slot 30µ" Gold
	4 to 12	87833-XX31	Center Locking Window 15µ" Gold
		87833-XX32	Center Locking Window 30µ" Gold
	14 to 50	87833-XX20	Center Polarization Slot and Locking Window 15µ" Gold
		87833-XX21	Center Polarization Slot and Locking Window 30µ" Gold

# Milli-Grid™ 2.00mm (.079") Pitch Interconnection System Board-to-Board System

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

**B**

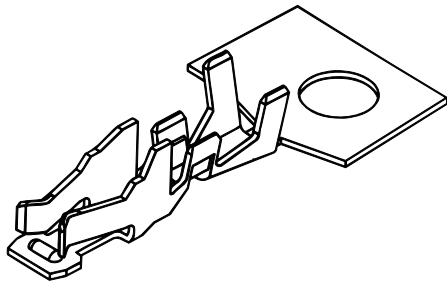


				Through Hole			SMT		
				Series/Description					
				87760 Right Angle	87758 Vertical	87831 Vertical	87833 Right Angle	87759 Vertical	87832 Vertical
	Series	Description	Contact Point	Overall Height	Circuits	Overall Mating Heights			
<b>Through Hole</b>									
	79107	Top Entry	1.50 (.059)	4.44 (.175)	4 to 50	6.94 (.273)	6.94 (.273)	7.14 (.281)	8.14 (.320)
	87264	Side Entry	1.50 (.059)	4.00 (.157) by 5.00 (.197)	8 to 50			7.70 (.303)	
<b>SMT</b>									
	79109	Top/Bottom Entry	1.50 (.059)	4.65 (.183)	4 to 50	7.15 (.281)	7.15 (.281)	7.35 (.289)	8.35 (.329)
	87263	Bottom Entry	1.30 (.051)	2.80 (.110)	4 to 44			7.08 (.279)	
	87340	Top Entry	0.90 (.035)	2.15 (.085)	4 to 20			4.85 (.191)	
	87381	Top Entry	1.70 (.067)	4.50 (.177)	6 to 50	7.00 (.276)	7.00 (.276)	7.20 (.283)	8.20 (.323)
	87368	Side Entry	1.50 (.059)	4.90 (.193) by 5.00 (.197)	8 to 50			7.70 (.303)	

Unshrouded Headers					
	Order No.	Circuits	Features	Mating Length	Tail Length
	87758-XX16	4 to 50	15µ" Gold	4.00 (.158)	2.60 (.102)
	87758-XX17		30µ" Gold		
	87759-XX50	8 to 50	With Pegs 15 Gold	3.80 (.150)	1.20 (.047)
	87759-XX51		With Pegs 30µ" Gold		
	87759-XX14	4 to 50	Without Pegs 15µ" Gold		
	87759-XX15	Without Pegs 30µ" Gold			
	87760-XX16	4 to 50	15µ" Gold	4.00 (.158)	2.60 (.102)
	87760-XX17		30µ" Gold		

## 2.00mm (.079") Pitch Milli-Grid™ Crimp Terminal

50394



Order No.	AWG	Plating	Lead-free
<a href="#">50394-8051</a>	26 - 30	15µ" min. selective Gold	Yes
<a href="#">50394-8052</a>		30µ" min. selective Gold	

### Features and Benefits

- Early entry terminal design for superior contact

### Reference Information

Product Specification: PS-51110-001  
 Packaging: Reel  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 0.50mm square pins  
 Use With: 51110  
 Designed In: Millimeters

### Electrical

Voltage: 125V  
 Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 40 milliohms max.  
 Dielectric Withstanding Voltage: 500V  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

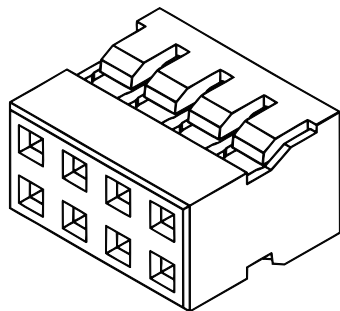
Contact Insertion Force: 9.8N max.  
 Mating Force: 1.96N per circuit max.  
 Unmating Force: 0.392N per circuit min.

### Physical

Contact: Phosphor Bronze  
 Plating: See Table  
 Wire Range: 26 to 30 AWG  
 Insulation Range: 1.40mm dia. max.

## 2.00mm (.079") Pitch Milli-Grid™ Crimp Housing

51110



### Features and Benefits

- Sizes 4 to 32 circuits
- Front latches for added retention forces after mating
- Options include center polarization key and front latches version (14 to 32 circuits only), center polarization key only (8 to 12 circuits)

### Reference Information

Product Specification: PS-51110  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 87831, 87832, 87833, 87858, 87859, 87760  
 Use With: 50394  
 Designed In: Millimeters

### Physical

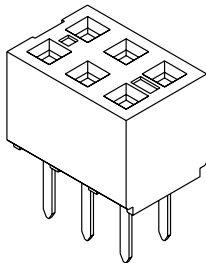
Housing: Black glass-filled polyester, UL 94V-0

Circuits	Order No.	
	Plain	With Polarization Keys
4	<a href="#">51110-0450</a>	<a href="#">51110-0460</a>
6	<a href="#">51110-0650</a>	<a href="#">51110-0660</a>
8	<a href="#">51110-0850</a>	<a href="#">51110-0860</a>
10	<a href="#">51110-1050</a>	<a href="#">51110-1060</a>
12	<a href="#">51110-1250</a>	<a href="#">51110-1260</a>
14	<a href="#">51110-1450</a>	<a href="#">51110-1451</a>
16	<a href="#">51110-1650</a>	<a href="#">51110-1651</a>
18	<a href="#">51110-1850</a>	<a href="#">51110-1851</a>

Circuits	Order No.	
	Plain	With Polarization Keys
20	<a href="#">51110-2050</a>	<a href="#">51110-2051</a>
22	<a href="#">51110-2250</a>	<a href="#">51110-2251</a>
24	<a href="#">51110-2450</a>	<a href="#">51110-2451</a>
26	<a href="#">51110-2650</a>	<a href="#">51110-2651</a>
28	<a href="#">51110-2850</a>	<a href="#">51110-2851</a>
30	<a href="#">51110-3050</a>	<a href="#">51110-3051</a>
32	<a href="#">51110-3250</a>	<a href="#">51110-3251</a>

## 2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

### 79107 Vertical, Dual Row Through Hole



#### Features and Benefits

- Sizes 4 to 50 circuits
- IR, vapor-phase and wave solder Surface Mount Compatible
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- PC tails have tapered lead-in on for ease of insertion into the PC board
- Also available with shortened 1.91mm (.075") tail length for 0.79mm (.031") thick PC boards

#### Reference Information

Product Specification: PS-79107  
 Packaging: Tube  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 0.50mm square pin headers 87760, 87758, 87759 and 87762  
 Designed In: Millimeters

#### Electrical

Voltage: 125V  
 Current: 1.0A  
 Contact Resistance: 25 milliohms max.  
 Dielectric Withstanding Voltage: 1250V  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 8 oz max.  
 Unmating Force: 1.5 oz min.  
 Normal Force: 100g  
 Durability: 15μ" Gold contacts—50 cycles min.  
 30μ" Gold contacts—100 cycles min.

#### Physical

Housing: Black glass-filled LCP, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

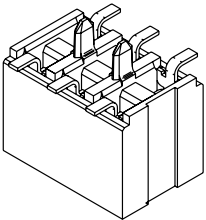
Circuits	Order No.		Lead-free
	PC Tail Length = 3.00mm (.118")		
	15μ" Select Gold	30μ" Select Gold	
4	79107-7001	79107-7051	Yes
6	79107-7002	79107-7052	
8	79107-7003	79107-7053	
10	79107-7004	79107-7054	
12	79107-7005	79107-7055	
14	79107-7006	79107-7056	
16	79107-7007	79107-7057	
18	79107-7008	79107-7058	

Circuits	Order No.		Lead-free
	PC Tail Length = 3.00mm (.118")		
	15μ" Select Gold	30μ" Select Gold	
20	79107-7009	79107-7059	Yes
22	79107-7010	79107-7060	
24	79107-7011	79107-7061	
26	79107-7012	79107-7062	
28	79107-7013	79107-7063	
30	79107-7014	79107-7064	
32	79107-7015	79107-7065	
34	79107-7016	79107-7066	

Circuits	Order No.		Lead-free
	PC Tail Length = 3.00mm (.118")		
	15μ" Select Gold	30μ" Select Gold	
36	79107-7017	79107-7067	Yes
38	79107-7018	79107-7068	
40	79107-7019	79107-7069	
42	79107-7020	79107-7070	
44	79107-7021	79107-7071	
46	79107-7022	79107-7072	
48	79107-7023	79107-7073	
50	79107-7024	79107-7074	

## 2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

### 79109 Vertical, Dual Row Top/Bottom Entry SMT, with Pegs



#### Features and Benefits

- Sizes 4 to 50 circuits
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- Can be used as either a top or bottom entry receptacle
- Pegs offer press-fit retention to PC board

#### Reference Information

Product Specification: PS-79107  
 Packaging: Tube or tape and reel  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 0.50mm square pin headers 87760, 87758, 87759 and 87762  
 Designed In: Millimeters

#### Electrical

Voltage: 125V  
 Current: 1.0A  
 Contact Resistance: 25 milliohms max.  
 Dielectric Withstanding Voltage: 1250V  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 8 oz max.  
 Unmating Force: 1.5 oz min.  
 Normal Force: 100g  
 Durability: 15μ" Gold contacts—50 cycles min.  
 30μ" Gold contacts—100 cycles min.

#### Physical

Housing: Black glass-filled LCP, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.				Lead-free
	15μ" Gold		30μ" Gold		
	Tube	Tape and Reel	Tube	Tape and Reel	
4	79109-1201	*	79109-1251	*	Yes
6	79109-1202	79109-8602	79109-1252	79109-8652	
8	79109-1203	79109-8603	79109-1253	79109-8653	
10	79109-1204	79109-8604	79109-1254	79109-8654	
12	79109-1205	79109-8605	79109-1255	79109-8655	
14	79109-1206	79109-8606	79109-1256	79109-8656	
16	79109-1207	79109-8607	79109-1257	79109-8657	
18	79109-1208	79109-8608	79109-1258	79109-8658	
20	79109-1209	79109-8609	79109-1259	79109-8659	
22	79109-1210	79109-8610	79109-1260	79109-8660	
24	79109-1211	79109-8611	79109-1261	79109-8661	
26	79109-1212	79109-8612	79109-1262	79109-8662	

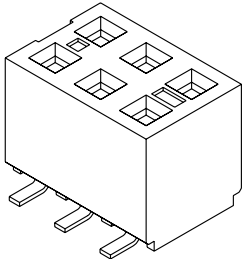
Circuits	Order No.				Lead-free
	15μ" Gold		30μ" Gold		
	Tube	Tape and Reel	Tube	Tape and Reel	
28	79109-1213	79109-8613	79109-1263	79109-8663	Yes
30	79109-1214	79109-8614	79109-1264	79109-8664	
32	79109-1215	79109-8615	79109-1265	79109-8665	
34	79109-1216	79109-8616	79109-1266	79109-8666	
36	79109-1217	79109-8617	79109-1267	79109-8667	
38	79109-1218	79109-8618	79109-1268	79109-8668	
40	79109-1219	79109-8619	79109-1269	79109-8669	
42	79109-1220	79109-8620	79109-1270	79109-8670	
44	79109-1221	79109-8621	79109-1271	79109-8671	
46	79109-1222	79109-8622	79109-1272	79109-8672	
48	79109-1223	79109-8623	79109-1273	79109-8673	
50	79109-1224	79109-8624	79109-1274	79109-8674	

\* Contact Molex

# 2.00mm (.079") Pitch Milli-Grid™ Board-to-Board Receptacle

**79109**

**Vertical, Dual Row  
Top/Bottom Entry  
SMT, without Pegs**



### Features and Benefits

- Sizes 4 to 50 circuits
- Dual beam contact design ensures reliable electrical performance
- Molded-in void locations offered for polarization to mating connector
- Can be used as either top or bottom entry receptacle

### Reference Information

Product Specification: PS-79107  
 Packaging: Tube or tape and reel  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 0.50mm square pin headers 87760, 87758, 87759 and 87762  
 Designed In: Millimeters

### Electrical

Voltage: 125V  
 Current: 1.0A  
 Contact Resistance: 15 milliohms max.  
 Dielectric Withstanding Voltage: 500V  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

Mating Force: 2.22N (.50 lb) max.  
 Unmating Force: 0.42N (.09 lb) min.  
 Normal Force: 0.98N (.22 lb)  
 Durability: 15μ" Gold contacts—50 cycles min.  
 30μ" Gold contacts—100 cycles min.

### Physical

Housing: Black glass-filled LCP, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.				Lead-free
	15μ" Gold		30μ" Gold		
	Tube	Tape and Reel	Tube	Tape and Reel	
4	79109-1001	*	79109-1051	*	Yes
6	79109-1002	79109-8402	79109-1052	79109-8452	
8	79109-1003	79109-8403	79109-1053	79109-8453	
10	79109-1004	79109-8404	79109-1054	79109-8454	
12	79109-1005	79109-8405	79109-1055	79109-8455	
14	79109-1006	79109-8406	79109-1056	79109-8456	
16	79109-1007	79109-8407	79109-1057	79109-8457	
18	79109-1008	79109-8408	79109-1058	79109-8458	
20	79109-1009	79109-8409	79109-1059	79109-8459	
22	79109-1010	79109-8410	79109-1060	79109-8460	
24	79109-1011	79109-8411	79109-1061	79109-8461	
26	79109-1012	79109-8412	79109-1062	79109-8462	

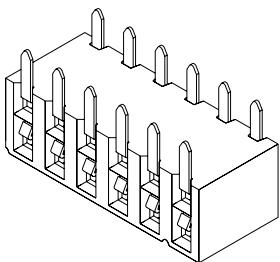
Circuits	Order No.				Lead-free
	15μ" Gold		30μ" Gold		
	Tube	Tape and Reel	Tube	Tape and Reel	
28	79109-1013	79109-8413	79109-1063	79109-8463	Yes
30	79109-1014	79109-8414	79109-1064	79109-8464	
32	79109-1015	79109-8415	79109-1065	79109-8465	
34	79109-1016	79109-8416	79109-1066	79109-8466	
36	79109-1017	79109-8417	79109-1067	79109-8467	
38	79109-1018	79109-8418	79109-1068	79109-8468	
40	79109-1019	79109-8419	79109-1069	79109-8469	
42	79109-1020	79109-8420	79109-1070	79109-8470	
44	79109-1021	79109-8421	79109-1071	79109-8471	
46	79109-1022	79109-8422	79109-1072	79109-8472	
48	79109-1023	79109-8423	79109-1073	79109-8473	
50	79109-1024	79109-8424	79109-1074	79109-8474	

\* Contact Molex

# 2.00mm (.079") Pitch Milli-Grid™ Receptacle

**87264**

**Side Entry**



### Features and Benefits

- Sizes 8 to 50 circuits
- Surface Mount Compatible

### Reference Information

Product Specification: PS-87264  
 Packaging: Tube (contact Molex for embossed tape)  
 UL File No.: E29179  
 CSA File No.: LR19980-182  
 Mates With: 0.50mm square pin headers  
 Designed In: Millimeters

### Electrical

Voltage: 125V  
 Current: 1.0A  
 Contact Resistance: 15 milliohms max.  
 Dielectric Withstanding Voltage: 500V  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

Contact Insertion Force: 180g max.  
 Normal Force: 50g min.

### Physical

Housing: Black high-temperature nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table  
 PCB Thickness: 1.60 ± 0.10mm

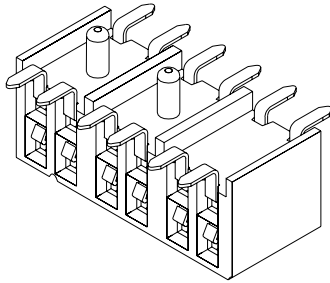
Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
8	87264-0852	87264-0853	Yes
10	87264-1052	87264-1053	
12	87264-1252	87264-1253	
14	87264-1452	87264-1453	
16	87264-1652	87264-1653	
18	87264-1852	87264-1853	
20	87264-2052	87264-2053	
22	87264-2252	87264-2253	

Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
24	87264-2452	87264-2453	Yes
26	87264-2652	87264-2653	
28	87264-2852	87264-2853	
30	87264-3052	87264-3053	
32	87264-3252	87264-3253	
34	87264-3452	87264-3453	
36	87264-3652	87264-3653	
38	87264-3852	87264-3853	

Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
40	87264-4052	87264-4053	Yes
42	87264-4252	87264-4253	
44	87264-4452	87264-4453	
46	87264-4652	87264-4653	
48	87264-4852	87264-4853	
50	87264-5052	87264-5053	

## 2.00mm (.079") Pitch Milli-Grid™ Receptacle

**87368**  
Side Entry  
SMT



### Features and Benefits

- Sizes 10 to 50 circuits
- MCC compatible
- Polarization peg version standard
- Optional without peg version

### Reference Information

Product Specification: PS-87264  
Packaging: Tube (contact Molex for embossed tape)  
Mates With: 0.50mm square pin headers  
Designed In: Millimeters

### Electrical

Voltage: 125V  
Current: 1.0A  
Contact Resistance: 15 milliohms max.  
Dielectric Withstanding Voltage: 500V  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Contact Insertion Force: 180g max.  
Normal Force: 50g min.

### Physical

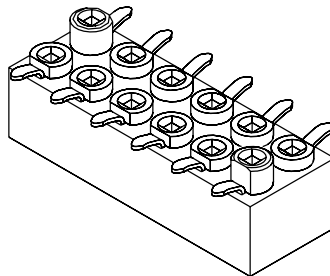
Housing: Black nylon, UL 94V-0  
Contact: Phosphor Bronze  
Plating: See Table  
PCB Thickness: 1.60 ± 0.10mm

Circuits	Order No.		Lead-free
	15µ" Select Gold	30µ" Select Gold	
10	<a href="#">87368-1024</a>	<a href="#">87368-1025</a>	Yes
12	<a href="#">87368-1224</a>	<a href="#">87368-1225</a>	
14	<a href="#">87368-1424</a>	<a href="#">87368-1425</a>	
16	<a href="#">87368-1624</a>	<a href="#">87368-1625</a>	
18	<a href="#">87368-1824</a>	<a href="#">87368-1825</a>	
20	<a href="#">87368-2024</a>	<a href="#">87368-2025</a>	
22	<a href="#">87368-2224</a>	<a href="#">87368-2225</a>	
24	<a href="#">87368-2424</a>	<a href="#">87368-2425</a>	
26	<a href="#">87368-2624</a>	<a href="#">87368-2625</a>	
28	<a href="#">87368-2824</a>	<a href="#">87368-2825</a>	
30	<a href="#">87368-3024</a>	<a href="#">87368-3025</a>	

Circuits	Order No.		Lead-free
	15µ" Select Gold	30µ" Select Gold	
32	<a href="#">87368-3224</a>	<a href="#">87368-3225</a>	Yes
34	<a href="#">87368-3424</a>	<a href="#">87368-3425</a>	
36	<a href="#">87368-3624</a>	<a href="#">87368-3625</a>	
38	<a href="#">87368-3824</a>	<a href="#">87368-3825</a>	
40	<a href="#">87368-4024</a>	<a href="#">87368-4025</a>	
42	<a href="#">87368-4224</a>	<a href="#">87368-4225</a>	
44	<a href="#">87368-4424</a>	<a href="#">87368-4425</a>	
46	<a href="#">87368-4624</a>	<a href="#">87368-4625</a>	
48	<a href="#">87368-4824</a>	<a href="#">87368-4825</a>	
50	<a href="#">87368-5024</a>	<a href="#">87368-5025</a>	

## 2.00mm (.079") Pitch Milli-Grid™ Receptacle

**87263**  
Bottom Entry  
SMT



### Features and Benefits

- Sizes 4 to 42 circuits
- Locating peg version standard
- Optional without peg version

### Reference Information

Product Specification: PS-87263  
Packaging: Tube (contact Molex for embossed tape and cap)  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 0.50mm square pin headers  
Designed In: Millimeters

### Electrical

Voltage: 125V  
Current: 1.0A  
Contact Resistance: 15 milliohms max.  
Dielectric Withstanding Voltage: 1000V  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Contact Insertion Force: 180g max.  
Normal Force: 50g min.

### Physical

Housing: Black high-temperature nylon, UL 94V-0  
Contact: Phosphor Bronze  
Plating: See Table

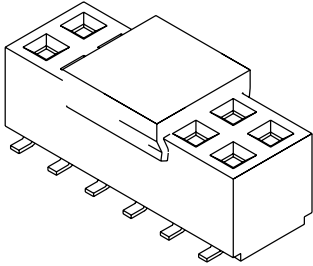
Circuits	Order No.		Lead-free
	15µ" Select Gold	30µ" Select Gold	
4	<a href="#">87263-0423</a>	<a href="#">87263-0425</a>	Yes
6	<a href="#">87263-0623</a>	<a href="#">87263-0625</a>	
8	<a href="#">87263-0823</a>	<a href="#">87263-0825</a>	
10	<a href="#">87263-1023</a>	<a href="#">87263-1025</a>	
12	<a href="#">87263-1223</a>	<a href="#">87263-1225</a>	
14	<a href="#">87263-1423</a>	<a href="#">87263-1425</a>	
16	<a href="#">87263-1623</a>	<a href="#">87263-1625</a>	
18	<a href="#">87263-1823</a>	<a href="#">87263-1825</a>	
20	<a href="#">87263-2023</a>	<a href="#">87263-2025</a>	
22	<a href="#">87263-2223</a>	<a href="#">87263-2225</a>	

Circuits	Order No.		Lead-free
	15µ" Select Gold	30µ" Select Gold	
24	<a href="#">87263-2423</a>	<a href="#">87263-2425</a>	Yes
26	<a href="#">87263-2623</a>	<a href="#">87263-2625</a>	
28	<a href="#">87263-2823</a>	<a href="#">87263-2825</a>	
30	<a href="#">87263-3023</a>	<a href="#">87263-3025</a>	
32	<a href="#">87263-3223</a>	<a href="#">87263-3225</a>	
34	<a href="#">87263-3423</a>	<a href="#">87263-3425</a>	
36	<a href="#">87263-3623</a>	<a href="#">87263-3625</a>	
38	<a href="#">87263-3823</a>	<a href="#">87263-3825</a>	
40	<a href="#">87263-4023</a>	<a href="#">87263-4025</a>	
42	<a href="#">87263-4223</a>	<a href="#">87263-4225</a>	



## 2.00mm (.079") Pitch Milli-Grid™ Receptacle

### 87381 Dual Row, SMT Top Entry



#### Features and Benefits

- Size 6 to 24, 28 to 50 circuits
- Other plating and void pin options available
- Cap version for robotic delivery
- Contact Molex for peg version

#### Reference Information

Product Specification: PS-87380  
 Packaging: Tube (Contact Molex for tape and reel packaging)  
 UL File No.: E29179  
 CSA File No.: LR19980A  
 Mates With: 0.50mm (.020") square pin headers  
 Designed In: Millimeters

#### Electrical

Current: 1.9A max.  
 Contact Resistance: 15 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1min.  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Contact Insertion Force: 180g max.  
 Contact Retention to Housing: 5.38N (1.21 lb) min.  
 Durability: 25 cycles

#### Physical

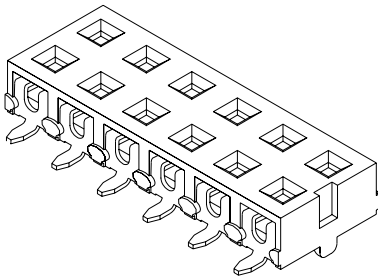
Housing: Black high-temp thermoplastic  
 Contact: Copper Alloy  
 Plating: See Table

Circuits	Order No.		Lead-free
	0.38mm (15μ") Gold	0.76mm (30μ") Gold	
6	<a href="#">87381-0664</a>	<a href="#">87381-0663</a>	Yes
8	<a href="#">87381-0864</a>	<a href="#">87381-0863</a>	
10	<a href="#">87381-1064</a>	<a href="#">87381-1063</a>	
12	<a href="#">87381-1264</a>	<a href="#">87381-1263</a>	
14	<a href="#">87381-1464</a>	<a href="#">87381-1463</a>	
16	<a href="#">87381-1664</a>	<a href="#">87381-1663</a>	
18	<a href="#">87381-1864</a>	<a href="#">87381-1863</a>	
20	<a href="#">87381-2064</a>	<a href="#">87381-2063</a>	
22	<a href="#">87381-2264</a>	<a href="#">87381-2263</a>	
24	<a href="#">87381-2464</a>	<a href="#">87381-2463</a>	
28	<a href="#">87381-2864</a>	<a href="#">87381-2863</a>	

Circuits	Order No.		Lead-free
	0.38mm (15μ") Gold	0.76mm (30μ") Gold	
30	<a href="#">87381-3064</a>	<a href="#">87381-3063</a>	Yes
32	<a href="#">87381-3264</a>	<a href="#">87381-3263</a>	
34	<a href="#">87381-3464</a>	<a href="#">87381-3463</a>	
36	<a href="#">87381-3664</a>	<a href="#">87381-3663</a>	
38	<a href="#">87381-3864</a>	<a href="#">87381-3863</a>	
40	<a href="#">87381-4064</a>	<a href="#">87381-4063</a>	
42	<a href="#">87381-4264</a>	<a href="#">87381-4263</a>	
44	<a href="#">87381-4464</a>	<a href="#">87381-4463</a>	
46	<a href="#">87381-4664</a>	<a href="#">87381-4663</a>	
48	<a href="#">87381-4864</a>	<a href="#">87381-4863</a>	
50	<a href="#">87381-5064</a>	<a href="#">87381-5063</a>	

## 2.00mm (.079") Pitch Milli-Grid™ Receptacle

### 87340 Top Entry SMT (VLPR2)



#### Features and Benefits

- Sizes 4 to 20 circuits
- Locating peg version standard
- Very low profile height 2.15mm
- End-to-end stackable
- Optional without peg version
- Contact Molex for pick-and-place cap or embossed tape

#### Reference Information

Product Specification: PS-87340  
 Packaging: Tube  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 0.50mm square pin headers  
 Designed In: Millimeters

#### Electrical

Voltage: 125V  
 Current: 1.0A  
 Contact Resistance: 15 milliohms max.  
 Dielectric Withstanding Voltage: 1000V  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Contact Insertion Force: 180g max.  
 Contact Retention to Housing: 0.32kg min.  
 Normal Force: 50g min.

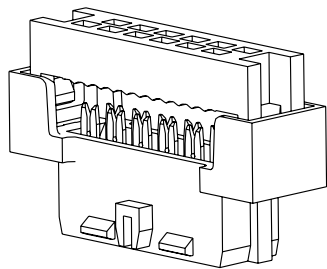
#### Physical

Housing: Black LCP, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
4	<a href="#">87340-0424</a>	<a href="#">87340-0423</a>	Yes
6	<a href="#">87340-0624</a>	<a href="#">87340-0623</a>	
8	<a href="#">87340-0824</a>	<a href="#">87340-0823</a>	
10	<a href="#">87340-1024</a>	<a href="#">87340-1023</a>	
12	<a href="#">87340-1224</a>	<a href="#">87340-1223</a>	
14	<a href="#">87340-1424</a>	<a href="#">87340-1423</a>	
16	<a href="#">87340-1624</a>	<a href="#">87340-1623</a>	
18	<a href="#">87340-1824</a>	<a href="#">87340-1823</a>	
20	<a href="#">87340-2024</a>	<a href="#">87340-2023</a>	

# 2.00mm (.079") Pitch Milli-Grid™ Cable-to-Board Receptacle

**87568**  
Dual Row, IDT



### Features and Benefits

- Pre-loaded upper housing offers precise cover-to-base alignment, ensuring a reliable termination
- Early-entry single-beam contact provides long wiping action during mating
- Optional polarization and locking ramp
- Optional strain relief is available

### Reference Information

Product Specification: PS-87568-004  
 Packaging: Tray  
 Wire Style: UL2651, UL2678  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: Milli-Grid 2.00mm (.079") Headers  
 Use With: 87569 Strain Relief  
 Designed In: Millimeters

### Electrical

Voltage: 125V DC  
 Current: 1.0A  
 Contact Resistance: 30 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC  
 Insulation Resistance: 5000 Megohms min.

### Mechanical

Contact Retention to Housing: 1.96N (0.44 lb) max.  
 Wire Pull-Out Force: 2.45N (0.55 lb) max.  
 Mating Force: 1.96N (0.44 lb) max.  
 Unmating Force: 0.39N (0.09 lb) min.  
 Durability: 600 cycles max.

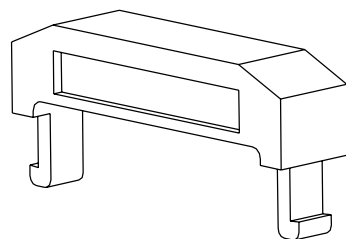
### Physical

Housing: Black glass-filled PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—See Table Below  
 Underplating—Nickel  
 Cable: 1.00mm Flat Cable, 7 Strands, 28 AWG

Circuits	Order No.		X=4 With Center Polarization	X=6 Without Polarization and Locking Ramp	X=7 With Single Locking Ramp	X=9 With Polarization and Locking Ramp	Lead-free
	0.38 $\mu$ m (15 $\mu$ " ) Gold	0.76 $\mu$ m (30 $\mu$ " ) Gold					
10	87568-10X3	87568-10X4	No		Yes	No	
12	87568-12X3	87568-12X4					
14	87568-14X3	87568-14X4					
16	87568-16X3	87568-16X4					
20	87568-20X3	87568-20X4					
22	87568-22X3	87568-22X4					
24	87568-24X3	87568-24X4	Yes	Yes	No	Yes	
26	87568-26X3	87568-26X4					
30	87568-30X3	87568-30X4					
34	87568-34X3	87568-34X4					
40	87568-40X3	87568-40X4					
44	87568-44X3	87568-44X4					
50	87568-50X3	87568-50X4					

# 2.00mm (.079") Pitch Milli-Grid™ Cable-to-Board Strain Relief

**87569**  
IDT



### Features and Benefits

- Sizes 10 to 50 circuits
- Provide additional cable retention

### Reference Information

Product Specification: PS-87568-004  
 Packaging: Bag  
 Use With: 87568  
 Designed In: Millimeters

### Physical

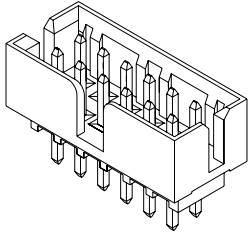
Housing: Black thermoplastic, UL 94V-0

Circuits	Order No.
10	<a href="#">87569-1010</a>
12	<a href="#">87569-1012</a>
14	<a href="#">87569-1014</a>
16	<a href="#">87569-1016</a>
20	<a href="#">87569-1020</a>
22	<a href="#">87569-1022</a>
24	<a href="#">87569-1024</a>

Circuits	Order No.
26	<a href="#">87569-1026</a>
30	<a href="#">87569-1030</a>
34	<a href="#">87569-1034</a>
40	<a href="#">87569-1040</a>
44	<a href="#">87569-1044</a>
50	<a href="#">87569-1050</a>

## 2.00mm (.079") Pitch Milli-Grid™ Header

### 87831 Shrouded Vertical, SMC



#### Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Center polarization slot (6 to 12 circuits); center polarization slot and front latches (14 to 50 circuits)

#### Reference Information

Product Specification: PS-87831-027  
 Packaging: Tube (contact Molex for embossed tape)  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 50394, 51110 and 87568  
 Designed In: Millimeters

#### Electrical

Voltage: 125V  
 Current: 2.0A  
 Dielectric Withstanding Voltage: 1000V  
 Insulation Resistance: 1000 Megohms min.

#### Physical

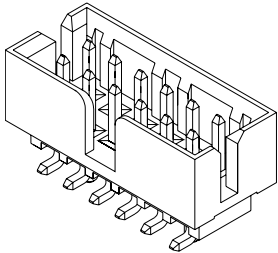
Housing: Black 4/6 nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.		Lead-free
	15µm Select Gold	30µm Select Gold	
4	<a href="#">87831-0420</a>	<a href="#">87831-0421</a>	Yes
6	<a href="#">87831-0620</a>	<a href="#">87831-0621</a>	
8	<a href="#">87831-0820</a>	<a href="#">87831-0821</a>	
10	<a href="#">87831-1020</a>	<a href="#">87831-1021</a>	
12	<a href="#">87831-1220</a>	<a href="#">87831-1221</a>	
14	<a href="#">87831-1420</a>	<a href="#">87831-1421</a>	
16	<a href="#">87831-1620</a>	<a href="#">87831-1621</a>	
18	<a href="#">87831-1820</a>	<a href="#">87831-0621</a>	
20	<a href="#">87831-2020</a>	<a href="#">87831-2021</a>	
22	<a href="#">87831-2220</a>	<a href="#">87831-2221</a>	
24	<a href="#">87831-2420</a>	<a href="#">87831-2421</a>	
26	<a href="#">87831-2620</a>	<a href="#">87831-2621</a>	

Circuits	Order No.		Lead-free
	15µm Select Gold	30µm Select Gold	
28	<a href="#">87831-2820</a>	<a href="#">87831-2821</a>	Yes
30	<a href="#">87831-3020</a>	<a href="#">87831-3021</a>	
32	<a href="#">87831-3220</a>	<a href="#">87831-3221</a>	
34	<a href="#">87831-3420</a>	<a href="#">87831-3421</a>	
36	<a href="#">87831-3620</a>	<a href="#">87831-3621</a>	
38	<a href="#">87831-3820</a>	<a href="#">87831-3821</a>	
40	<a href="#">87831-4020</a>	<a href="#">87831-4021</a>	
42	<a href="#">87831-4220</a>	<a href="#">87831-4221</a>	
44	<a href="#">87831-4420</a>	<a href="#">87831-4421</a>	
46	<a href="#">87831-4620</a>	<a href="#">87831-4621</a>	
48	<a href="#">87831-4820</a>	<a href="#">87831-4821</a>	
50	<a href="#">87831-5020</a>	<a href="#">87831-5021</a>	

## 2.00mm (.079") Pitch Milli-Grid™ Header

### 87832 Shrouded SMT



#### Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Locating pegs for automatic insertion process
- Center polarization slot (6 to 12 circuits); center polarization and front latches (14 to 50 circuits)
- Contact Molex for embossed tape

#### Reference Information

Product Specification: PS-87831-027  
 Packaging: Tube (contact Molex for tape and reel)  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 50394, 51110 and 87568  
 Designed In: Millimeters

#### Electrical

Current: 2.0A  
 Dielectric Withstanding Voltage: 1000V  
 Insulation Resistance: 1000 Megohms min.

#### Physical

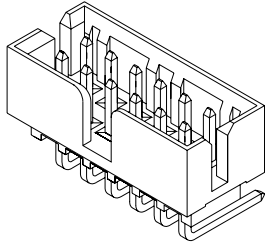
Housing: Black 4/6 nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.		Lead-free
	15µm Select Gold	30µm Select Gold	
4	<a href="#">87832-0420</a>	<a href="#">87832-0421</a>	Yes
6	<a href="#">87832-0620</a>	<a href="#">87832-0621</a>	
8	<a href="#">87832-0820</a>	<a href="#">87832-0821</a>	
10	<a href="#">87832-1020</a>	<a href="#">87832-1021</a>	
12	<a href="#">87832-1220</a>	<a href="#">87832-1221</a>	
14	<a href="#">87832-1420</a>	<a href="#">87832-1421</a>	
16	<a href="#">87832-1620</a>	<a href="#">87832-1621</a>	
18	<a href="#">87832-1820</a>	<a href="#">87832-1821</a>	
20	<a href="#">87832-2020</a>	<a href="#">87832-2021</a>	
22	<a href="#">87832-2220</a>	<a href="#">87832-2221</a>	
24	<a href="#">87832-2420</a>	<a href="#">87832-2421</a>	
26	<a href="#">87832-2620</a>	<a href="#">87832-2621</a>	

Circuits	Order No.		Lead-free
	15µm Select Gold	30µm Select Gold	
28	<a href="#">87832-2820</a>	<a href="#">87832-2821</a>	Yes
30	<a href="#">87832-3020</a>	<a href="#">87832-3021</a>	
32	<a href="#">87832-3220</a>	<a href="#">87832-3221</a>	
34	<a href="#">87832-3420</a>	<a href="#">87832-3421</a>	
36	<a href="#">87832-3620</a>	<a href="#">87832-3621</a>	
38	<a href="#">87832-3820</a>	<a href="#">87832-3821</a>	
40	<a href="#">87832-4020</a>	<a href="#">87832-4021</a>	
42	<a href="#">87832-4220</a>	<a href="#">87832-4221</a>	
44	<a href="#">87832-4420</a>	<a href="#">87832-4421</a>	
46	<a href="#">87832-4620</a>	<a href="#">87832-4621</a>	
48	<a href="#">87832-4820</a>	<a href="#">87832-4821</a>	
50	<a href="#">87832-5020</a>	<a href="#">87832-5021</a>	

## 2.00mm (.079") Pitch Milli-Grid™ Header

### 87833 Shrouded Right Angle



#### Features and Benefits

- Sizes 4 to 50 circuits
- Fully shrouded to protect pins during mating/unmating
- Center slot for polarization
- Front latches for mechanical locking
- Center polarization slot (6 to 12 circuits); center polarization slot and front latches (14 to 50 circuits)
- Surface Mount Compatible
- Contact Molex for embossed tape

#### Reference Information

Product Specification: PS-87831-027  
 Packaging: Tube (contact Molex for tape and reel)  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 50394, 51110 and 87568  
 Designed In: Millimeters

#### Electrical

Current: 2.0A  
 Dielectric Withstanding Voltage: 1000V  
 Insulation Resistance: 1000 Megohms min.

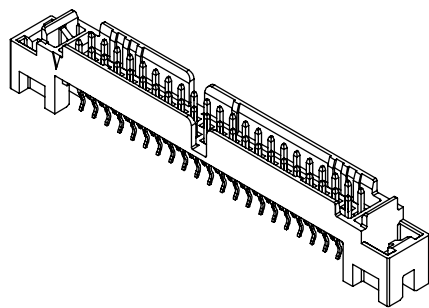
#### Physical

Housing: Black 4/6 nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: See Table

Circuits	Order No.		Lead-free	Circuits	Order No.		Lead-free
	15µm Select Gold	30µm Select Gold			15µm Select Gold	30µm Select Gold	
4	<a href="#">87833-0420</a>	<a href="#">87833-0421</a>	Yes	28	<a href="#">87833-2820</a>	<a href="#">87833-2821</a>	Yes
6	<a href="#">87833-0620</a>	<a href="#">87833-0621</a>		30	<a href="#">87833-3020</a>	<a href="#">87833-3021</a>	
8	<a href="#">87833-0820</a>	<a href="#">87833-0821</a>		32	<a href="#">87833-3220</a>	<a href="#">87833-3221</a>	
10	<a href="#">87833-1020</a>	<a href="#">87833-1021</a>		34	<a href="#">87833-3420</a>	<a href="#">87833-3421</a>	
12	<a href="#">87833-1220</a>	<a href="#">87833-1221</a>		36	<a href="#">87833-3620</a>	<a href="#">87833-3621</a>	
14	<a href="#">87833-1420</a>	<a href="#">87833-1421</a>		38	<a href="#">87833-3820</a>	<a href="#">87833-3821</a>	
16	<a href="#">87833-1620</a>	<a href="#">87833-1621</a>		40	<a href="#">87833-4020</a>	<a href="#">87833-4021</a>	
18	<a href="#">87833-1820</a>	<a href="#">87833-1821</a>		42	<a href="#">87833-4220</a>	<a href="#">87833-4221</a>	
20	<a href="#">87833-2020</a>	<a href="#">87833-2021</a>		44	<a href="#">87833-4420</a>	<a href="#">87833-4421</a>	
22	<a href="#">87833-2220</a>	<a href="#">87833-2221</a>		46	<a href="#">87833-4620</a>	<a href="#">87833-4621</a>	
24	<a href="#">87833-2420</a>	<a href="#">87833-2421</a>		48	<a href="#">87833-4820</a>	<a href="#">87833-4821</a>	
26	<a href="#">87833-2620</a>	<a href="#">87833-2621</a>		50	<a href="#">87833-5020</a>	<a href="#">87833-5021</a>	

## 2.00mm (.079") Pitch Milli-Grid™ Header

### 87981/87982/87983/87984 With Latch Hook



#### Features and Benefits

- Early entry system provides long pin wipe
- Polarization slot to prevent reversed mating
- Polarization peg in vertical type (series 87982/87983) ensures proper orientation during mounting to PCB

#### Reference Information

Product Specification: PS-87981-018  
 Packaging: See table  
 Mates With: 87985 IDT Receptacle

#### Electrical

Voltage: 125V AC  
 Current: 2.0A max.  
 Contact Resistance: 30 milliohms max.  
 Dielectric Strength: 500V AC  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Contact Retention to Housing: 0.85kgf  
 Mating Force: 200gf per circuit max.  
 Unmating Force: 40gf per circuit min.  
 Durability: 30 cycles

#### Physical

Housing: See table  
 Contact: Phosphor Bronze  
 Plating: Contact Area—0.38µm (15µ") min. Gold  
 Solder Tail Area—Tin  
 Underplating: Nickel  
 PCB Thickness: 1.60mm +/-0.10mm

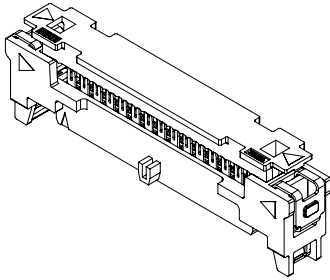
Circuits	Order No.	Orientation	PCB Mounting	Packaging	Housing	Lead-free
30	<a href="#">87982-3030</a>	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	Yes
40	<a href="#">87982-3040</a>	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
40	<a href="#">87984-3040</a>	Right Angle	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
44	<a href="#">87981-3044</a>	Right Angle	Straddle Mount	Tube	Black glass-filled LCP, UL 94V-0	
44	<a href="#">87982-3044</a>	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
44	<a href="#">87983-3044</a>	Vertical	SMT	Tape and Reel	Black glass-filled nylon, UL 94V-0	
50	<a href="#">87981-3050</a>	Right Angle	Straddle Mount	Tube	Black glass-filled LCP, UL 94V-0	
50	<a href="#">87982-3050</a>	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	

Contact Molex for availability of other circuit sizes (4-50 circuits)

# 2.00mm (.079") Pitch Milli-Grid™ IDT Cable-to-Board Receptacle

**87985**

**Dual Row, IDT  
With Metal Latch**



Circuits	Order No.	Lead-free
30	<a href="#">87985-3030</a>	Yes
40	<a href="#">87985-3040</a>	
44	<a href="#">87985-3044</a>	
50	<a href="#">87985-3050</a>	

Contact Molex for availability of other circuit sizes (4-50 circuits)

### Features and Benefits

- Metal latches provide strong retention and full mate to header
- Strain relief provides greater retention to header

### Reference Information

Product Specification: PS-87985-026

Packaging: Tray

Mates With: 87981, 87982, 87983 and 87984 headers

### Electrical

Voltage: 125V AC (RMS)/DC max.

Current: 1.0A max.

Contact Resistance: 30 milliohms max.

Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 1000 Megohms min.

### Mechanical

Contact Retention to Housing: 0.20kgf min.

Mating Force: 200gf max. per circuit

Unmating Force: 40gf min. per circuit

Durability: 30 cycles

### Physical

Housing: Gray glass-filled PBT, UL 94V-0

Contact: Copper Alloy

Plating: Contact Area—0.38µm (15µ") Gold

Solder Tail Area—Tin

Underplating: Nickel

Wire Gauge: 26 and 28 AWG stranded flat ribbon cable

**B**

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

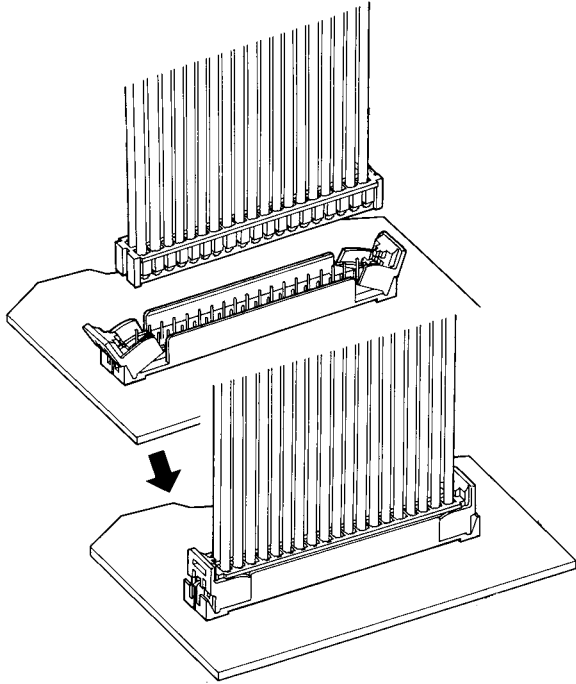
# Mi II™ (2.00 x 2.50mm) Connection System

B

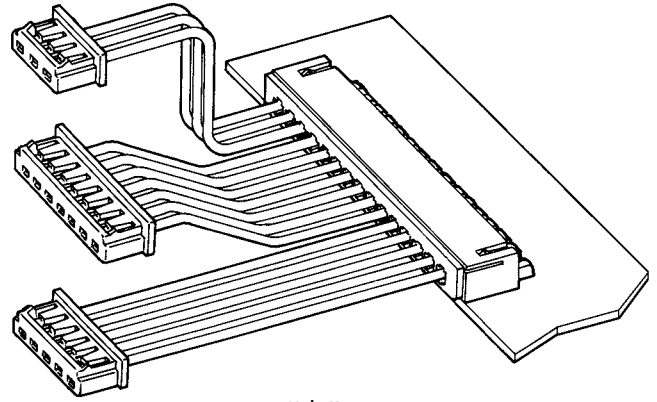
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## Features

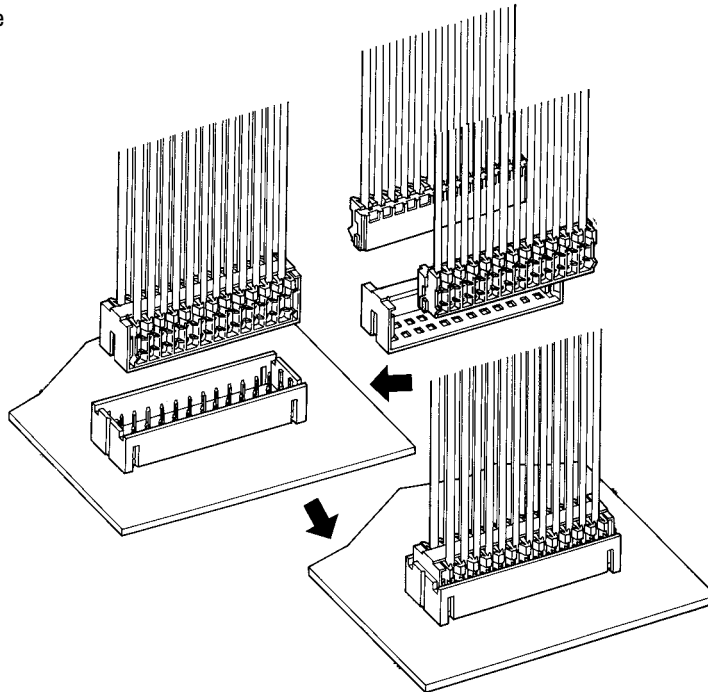
- 2.00mm pitch low profile wire-to-board connector
- Single and dual row, crimp and IDT
- Low insertion force design, locking features and high reliability
- Kinked header pins
- Clip allows back-to-back stacking of single row IDT assemblies
- Application tooling for use in assembling harnesses
- Board-in type is available in vertical and right angle types



Eject Lever Type



Multi Harnesses



With Clip Connection Type

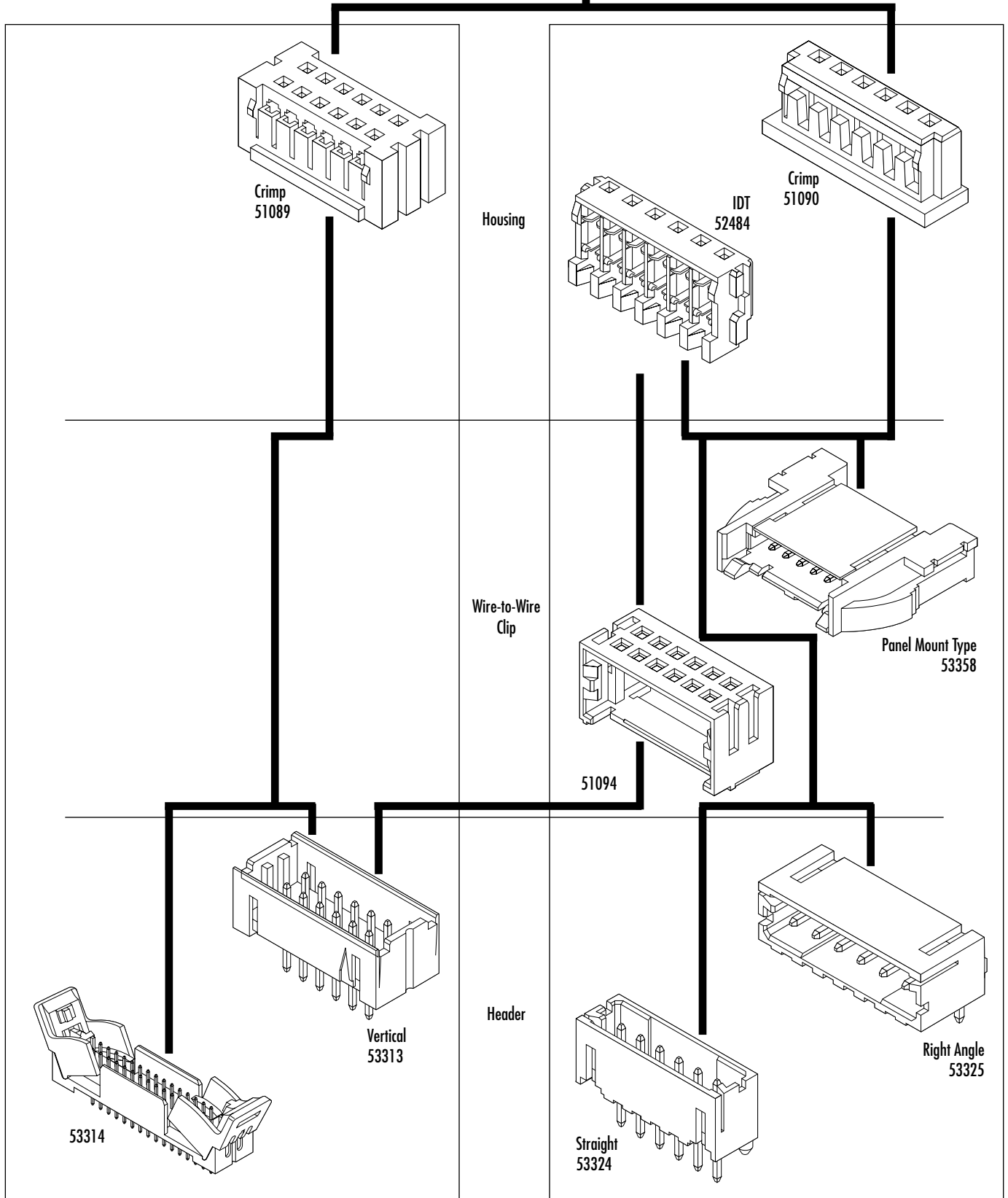
# Mi II™ System Chart

Dual Row

50212  
Terminal

Single Row

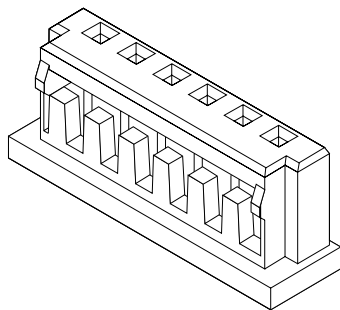
**B**



2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Housing

**51090**  
Single Row  
Crimp



Circuits	Order No.
2	<a href="#">51090-0200</a>
3	<a href="#">51090-0300</a>
4	<a href="#">51090-0400</a>
5	<a href="#">51090-0500</a>
6	<a href="#">51090-0600</a>
7	<a href="#">51090-0700</a>
8	<a href="#">51090-0800</a>

Circuits	Order No.
9	<a href="#">51090-0900</a>
10	<a href="#">51090-1000</a>
11	<a href="#">51090-1100</a>
12	<a href="#">51090-1200</a>
13	<a href="#">51090-1300</a>
14	<a href="#">51090-1400</a>
15	<a href="#">51090-1500</a>

### Features and Benefits

- Sizes 2 to 15 circuits

### Reference Information

Product Specification: Refer to Mates With items  
 Packaging: Bag  
 UL File No.: E29179  
 Mates With: 53324, 53325 and 53358  
 Use With: 50212  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

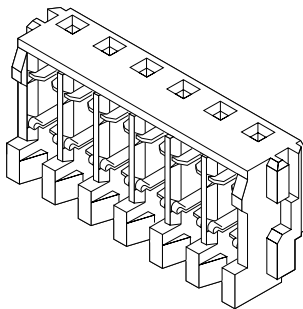
Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

Housing: PBT, UL 94V-0

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Receptacle

**52484**  
Single Row  
IDT



Circuits	Order No.	Lead-free
2	<a href="#">52484-0210</a>	Yes
3	<a href="#">52484-0310</a>	
4	<a href="#">52484-0410</a>	
5	<a href="#">52484-0510</a>	
6	<a href="#">52484-0610</a>	
7	<a href="#">52484-0710</a>	
8	<a href="#">52484-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">52484-0910</a>	Yes
10	<a href="#">52484-1010</a>	
11	<a href="#">52484-1110</a>	
12	<a href="#">52484-1210</a>	
13	<a href="#">52484-1310</a>	
14	<a href="#">52484-1410</a>	
15	<a href="#">52484-1510</a>	

### Features and Benefits

- Sizes 2 to 15 circuits
- IDT provides secure and cost-effective termination

### Reference Information

Product Specification: Refer to Mates With items  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 53324, 53325, 53358 and 53313 (with 51094 clip)  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	26	28
	1.5A	1.0A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

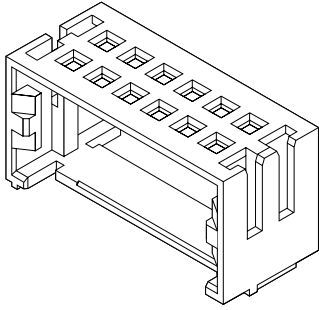
### Physical

Housing: Glass-filled Nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: Tin  
 Wire Range: 26 to 28 AWG  
 Insulation Range: 0.85 to 1.05mm dia.



## 2.00mm (.079") Pitch Mi II™ System Clip

**51094**  
Dual Row



### Features and Benefits

- Sizes 6 to 30 circuits
- Joins two single row receptacles (52484) to mate with a dual row header (53313)

### Reference Information

Product Specification: PS-52478-002  
Packaging: Bag  
CSA File No.: LR19980  
Mates With: 53313  
Use With: 52484  
Designed In: Millimeters

### Physical

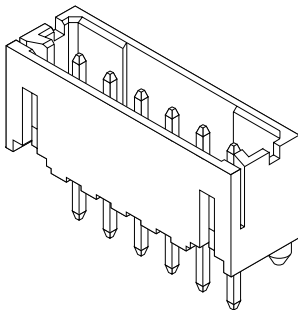
Housing: Gray PBT, UL 94V-0

Circuits	Order No.
6	<a href="#">51094-0605</a>
8	<a href="#">51094-0805</a>
10	<a href="#">51094-1005</a>
12	<a href="#">51094-1205</a>
14	<a href="#">51094-1405</a>
16	<a href="#">51094-1605</a>
18	<a href="#">51094-1805</a>

Circuits	Order No.
20	<a href="#">51094-2005</a>
22	<a href="#">51094-2205</a>
24	<a href="#">51094-2405</a>
26	<a href="#">51094-2605</a>
28	<a href="#">51094-2805</a>
30	<a href="#">51094-3005</a>

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Header

**53324**  
Single Row  
Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Outer pins are kinked
- Polarization peg ensures proper PCB placement

### Reference Information

Product Specification: PS-51090-016, PS-52484-021  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51090 and 52484  
Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Glass-filled Nylon, UL 94V-0

Contact: Brass

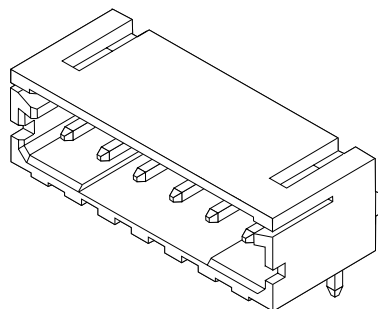
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53324-0260</a>	Yes
3	<a href="#">53324-0360</a>	
4	<a href="#">53324-0460</a>	
5	<a href="#">53324-0560</a>	
6	<a href="#">53324-0660</a>	
7	<a href="#">53324-0760</a>	
8	<a href="#">53324-0860</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53324-0960</a>	Yes
10	<a href="#">53324-1060</a>	
11	<a href="#">53324-1160</a>	
12	<a href="#">53324-1260</a>	
13	<a href="#">53324-1360</a>	
14	<a href="#">53324-1460</a>	
15	<a href="#">53324-1560</a>	

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Header

**53325**  
Single Row  
Right Angle



### Features and Benefits

- Sizes 2 to 15 circuits
- Outer pins are kinked

### Reference Information

Product Specification: PS-51090-016, PS-52484-021

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 51090 and 52484

Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Glass-filled PBT, UL 94V-0

Contact: Brass

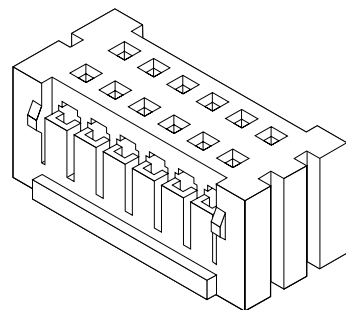
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53325-0260</a>	Yes
3	<a href="#">53325-0360</a>	
4	<a href="#">53325-0460</a>	
5	<a href="#">53325-0560</a>	
6	<a href="#">53325-0660</a>	
7	<a href="#">53325-0760</a>	
8	<a href="#">53325-0860</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53325-0960</a>	Yes
10	<a href="#">53325-1060</a>	
11	<a href="#">53325-1160</a>	
12	<a href="#">53325-1260</a>	
13	<a href="#">53325-1360</a>	
14	<a href="#">53325-1460</a>	
15	<a href="#">53325-1560</a>	

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Housing

**51089**  
Dual Row  
Crimp



### Features and Benefits

- Sizes 10 to 60 circuits
- Housing lance provides extra terminal retention
- Friction lock on circuits 10 to 28 provides additional mating retention

### Reference Information

Product Specification: PS-51089-005

Packaging: Bag

CSA File No.: LR 19980

Mates With: 53313 and 53314

Use With: 50212

Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

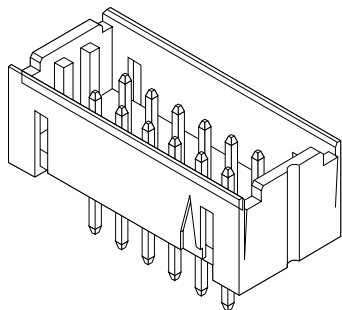
Housing: Gray glass-filled Polyester, UL 94V-0

Circuits	Order No.	Friction Lock
10	<a href="#">51089-1005</a>	Yes
12	<a href="#">51089-1205</a>	
14	<a href="#">51089-1405</a>	
16	<a href="#">51089-1605</a>	
18	<a href="#">51089-1805</a>	
20	<a href="#">51089-2005</a>	
22	<a href="#">51089-2205</a>	
24	<a href="#">51089-2405</a>	

Circuits	Order No.	Friction Lock
26	<a href="#">51089-2605</a>	Yes
28	<a href="#">51089-2805</a>	
30	<a href="#">51089-3005</a>	No
34	<a href="#">51089-3405</a>	
40	<a href="#">51089-4005</a>	
50	<a href="#">51089-5005</a>	
60	<a href="#">51089-6005</a>	

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Header

**53313**  
Dual Row  
Vertical



### Features and Benefits

- Sizes 6 to 60 circuits
- Polarization peg provides correct PCB placement

### Reference Information

Product Specification: PS-51089-005, PS-52478-002  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51089 and 52484 (with 51094 clip)  
Accepts: 51094 clip with two 52484 IDT receptacles  
Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Gray glass-filled Nylon, UL 94V-0

Contact: Brass

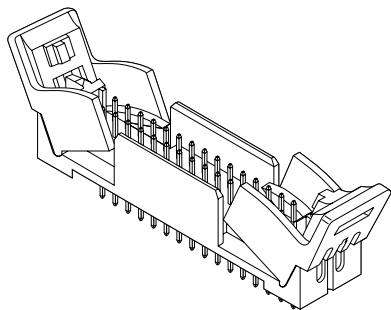
Plating: Tin

Circuits	Order No.	Lead-free
6	<a href="#">53313-0665</a>	Yes
8	<a href="#">53313-0865</a>	
10	<a href="#">53313-1065</a>	
12	<a href="#">53313-1265</a>	
14	<a href="#">53313-1465</a>	
16	<a href="#">53313-1665</a>	
18	<a href="#">53313-1865</a>	
20	<a href="#">53313-2065</a>	
22	<a href="#">53313-2265</a>	

Circuits	Order No.	Lead-free
24	<a href="#">53313-2465</a>	Yes
26	<a href="#">53313-2665</a>	
28	<a href="#">53313-2865</a>	
30	<a href="#">53313-3065</a>	
34	<a href="#">53313-3465</a>	
40	<a href="#">53313-4065</a>	
50	<a href="#">53313-5065</a>	
60	<a href="#">53313-6065</a>	

## 2.00mm (.079") Pitch Mi II™ System Wire-to-Board Header

**53314**  
Dual Row, Vertical  
With Eject Levers



### Features and Benefits

- Sizes 30 to 60 circuits
- Polarization peg provides correct PCB placement

### Reference Information

Product Specification: PS-51089-005  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51089  
Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	22	24	26	28	30
	2.5A	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Gray glass-filled Nylon, UL 94V-0

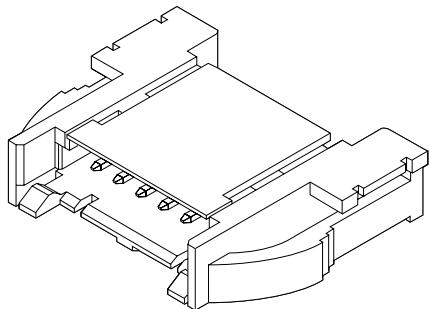
Contact: Brass

Plating: Tin

Circuits	Order No.	Lead-free
30	<a href="#">53314-3065</a>	Yes
34	<a href="#">53314-3465</a>	
40	<a href="#">53314-4065</a>	
50	<a href="#">53314-5065</a>	
60	<a href="#">53314-6065</a>	

# 2.00mm (.079") Pitch Mi II™ System Wire-to-Wire Panel Adapter

**53358**  
Single Row



### Features and Benefits

- Low insertion force
- Locking feature
- Low profile

### Reference Information

Product Specification: PS-53358-001  
Packaging: Bag  
Mates With: 51090 and 52484  
Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 40 milliohms max.

Dielectric Withstanding Voltage: 500V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

Housing: White PBT, UL 94V-0

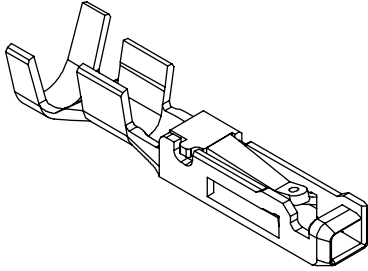
Contact: Brass

Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53358-0240</a>	Yes
3	<a href="#">53358-0340</a>	
4	<a href="#">53358-0440</a>	
5	<a href="#">53358-0540</a>	
6	<a href="#">53358-0640</a>	
7	<a href="#">53358-0740</a>	
8	<a href="#">53358-0840</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53358-0940</a>	Yes
10	<a href="#">53358-1040</a>	
11	<a href="#">53358-1140</a>	
12	<a href="#">53358-1240</a>	
13	<a href="#">53358-1340</a>	
14	<a href="#">53358-1440</a>	
15	<a href="#">53358-1540</a>	

## 2.00mm (.079") Pitch iGrid™ Wire-to-Board Crimp Terminal 501647/501648 Female



### Features and Benefits

- Polarization between housing and terminal ensures terminal always seats properly in housing

### Reference Information

Product Specification: PS-501646-001  
Packaging: Reel and Bag  
Use With: 501646 housing  
Designed In: Millimeters

### Electrical

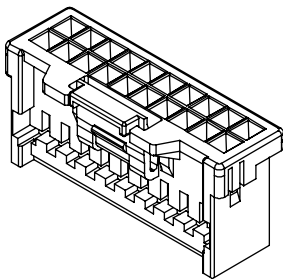
Voltage: 250V max.  
Current: 2.0A max.

### Physical

Contact: Copper Alloy  
Plating: Tin  
Insulation Diameter: 501647—1.50 mm dia. max.  
501648—1.40 mm dia. max.  
Strip Length: 2.10 to 2.50 mm

AWG	Order No.	Packing	Lead-free
22-26	<a href="#">501647-1000</a>	Reel	Yes
22-26	<a href="#">501647-1100</a>	Bag	
26-28	<a href="#">501648-1000</a>	Reel	

## 2.00mm (.079") Pitch iGrid™ Wire-to-Board Housing 501646 Dual Row Positive Lock



### Features and Benefits

- Sizes 10 to 40 circuits
- Polarization between housing and terminal ensures terminal always seats properly in housing
- Internal lock prevents wire tangling, provides space savings and audible click

### Reference Information

Product Specification: PS-501646-001  
Packaging: Bag  
Mates With: 501645, 501876  
Use With: 501647/501648 terminal  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

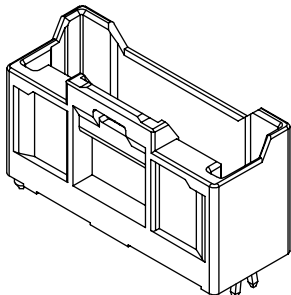
Housing: Nylon, UL 94V-0

Circuits	Order No.	Lead-free
10	<a href="#">501646-1000</a>	Yes
12	<a href="#">501646-1200</a>	
14	<a href="#">501646-1400</a>	
16	<a href="#">501646-1600</a>	
18	<a href="#">501646-1800</a>	
20	<a href="#">501646-2000</a>	
22	<a href="#">501646-2200</a>	
24	<a href="#">501646-2400</a>	

Circuits	Order No.	Lead-free
26	<a href="#">501646-2600</a>	Yes
28	<a href="#">501646-2800</a>	
30	<a href="#">501646-3000</a>	
32	<a href="#">501646-3200</a>	
34	<a href="#">501646-3400</a>	
36	<a href="#">501646-3600</a>	
38	<a href="#">501646-3800</a>	
40	<a href="#">501646-4000</a>	

## 2.00mm (.079") Pitch iGrid™ Wire-to-Board Header

### 501645 Dual Row, Vertical With PCB Locator



#### Features and Benefits

- Sizes 10 to 40 circuits
- Compact design saves PCB real estate, high density
- Fully shrouded headers withstand rugged handling and vibration
- Internal lock prevents wire tangling, provides space savings and audible click

#### Reference Information

Product Specification: PS-501646-001  
Packaging: Tray  
Mates With: 501646  
Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

#### Physical

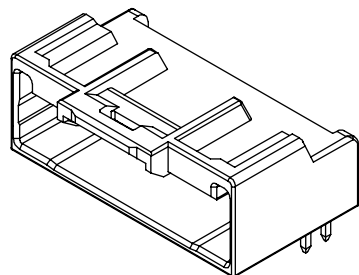
Housing: Glass-filled Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin over Copper

Circuits	Order No.	Lead-free
10	<a href="#">501645-1020</a>	Yes
12	<a href="#">501645-1220</a>	
14	<a href="#">501645-1420</a>	
16	<a href="#">501645-1620</a>	
18	<a href="#">501645-1820</a>	
20	<a href="#">501645-2020</a>	
22	<a href="#">501645-2220</a>	
24	<a href="#">501645-2420</a>	

Circuits	Order No.	Lead-free
26	<a href="#">501645-2620</a>	Yes
28	<a href="#">501645-2820</a>	
30	<a href="#">501645-3020</a>	
32	<a href="#">501645-3220</a>	
34	<a href="#">501645-3420</a>	
36	<a href="#">501645-3620</a>	
38	<a href="#">501645-3820</a>	
40	<a href="#">501645-4020</a>	

## 2.00mm (.079") Pitch iGrid™ Wire-to-Board Header

### 501876 Dual Row Right Angle



#### Features and Benefits

- Sizes 10 to 40 circuits
- Compact design saves PCB real estate, high density
- Fully shrouded headers withstand rugged handling and vibration
- Internal lock prevents wire tangling, provides space savings and audible click

#### Reference Information

Product Specification: PS-501646-001  
Packaging: Tray  
Mates With: 501646  
Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: Glass-filled Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin over Copper

Circuits	Order No.	Lead-free
10	<a href="#">501876-1040</a>	Yes
12	<a href="#">501876-1240</a>	
14	<a href="#">501876-1440</a>	
16	<a href="#">501876-1640</a>	
18	<a href="#">501876-1840</a>	
20	<a href="#">501876-2040</a>	
22	<a href="#">501876-2240</a>	
24	<a href="#">501876-2440</a>	

Circuits	Order No.	Lead-free
26	<a href="#">501876-2640</a>	Yes
28	<a href="#">501876-2840</a>	
30	<a href="#">501876-3040</a>	
32	<a href="#">501876-3240</a>	
34	<a href="#">501876-3440</a>	
36	<a href="#">501876-3640</a>	
38	<a href="#">501876-3840</a>	
40	<a href="#">501876-4040</a>	

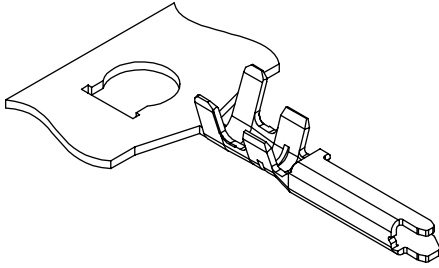
## 2.00mm (.079") Pitch CLIK-Mate™ Wire-to-Board Crimp Terminal

**502438**

**Reference Information**  
Product Specification: PS-502443-001  
Packaging: Reel and Bag  
Use With: 502439 housing  
Designed In: Millimeters

**Electrical**  
Voltage: 250V max.  
Current: 3.0A max.

**Physical**  
Contact: Copper Alloy  
Plating: Tin over Nickel  
Insulation Diameter: 1.50 mm dia. max.  
Strip Length: 1.90 to 2.30 mm  
Wire Gauge: 22 to 26 AWG



Order No.	Packaging	Lead-free
<a href="#">502438-0000</a>	Reel	Yes
<a href="#">502438-0100</a>	Bag	

## 2.00mm (.079") Pitch CLIK-Mate™ Wire-to-Board Housing

**502439**  
Single Row  
Positive Lock

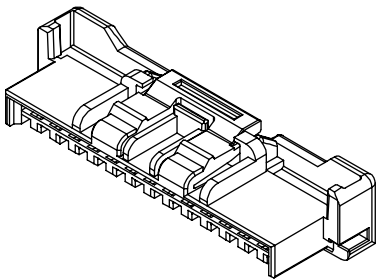
**Features and Benefits**

- Sizes 4 to 14 circuits
- Audible "click," low insertion force and secure mating
- Tuning fork style contact design secures contact and avoids terminal stubbing

**Reference Information**  
Product Specification: PS-502443-001  
Packaging: Bag  
Mates With: 502443, 502494  
Use With: 502438 terminal  
Designed In: Millimeters

**Electrical**  
Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 800V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

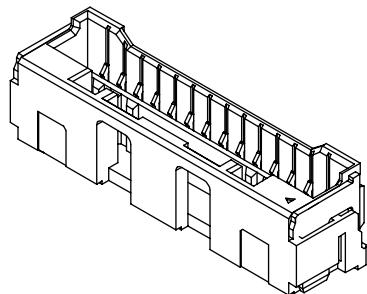
**Physical**  
Housing: White PBT, UL 94V-0



Circuits	Order No.	Lead-free
4	<a href="#">502439-0400</a>	Yes
5	<a href="#">502439-0500</a>	
6	<a href="#">502439-0600</a>	
8	<a href="#">502439-0800</a>	
12	<a href="#">502439-1200</a>	
13	<a href="#">502439-1300</a>	
14	<a href="#">502439-1400</a>	

## 2.00mm (.079") Pitch CLIK-Mate™ Wire-to-Board PCB Receptacle

**502443**  
Single Row  
Vertical



Circuits	Order No.	Lead-free
4	<a href="#">502443-0470</a>	Yes
5	<a href="#">502443-0570</a>	
6	<a href="#">502443-0670</a>	
8	<a href="#">502443-0870</a>	
12	<a href="#">502443-1270</a>	
13	<a href="#">502443-1370</a>	
14	<a href="#">502443-1470</a>	

### Features and Benefits

- Sizes 4 to 14 circuits
- Audible “click,” low insertion force and secure mating
- Tuning fork style contact design secures contact and avoids terminal stubbing
- Reinforced metal solder tabs enable housing wall support and secure PCB retention
- Flat area for pick-and-place is provided

### Reference Information

Product Specification: PS-502443-001  
Packaging: Embossed tape  
Mates With: 502439  
Designed In: Millimeters

### Electrical

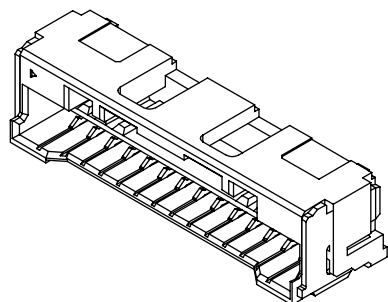
Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 800V AC/1 min.  
Insulation Resistance: 1000 megohms min.

### Physical

Housing: Heatproof resin, UL 94V-0  
Contact: Copper Alloy  
Plating: Tin over Nickel  
Fitting Nail: Copper Alloy, Tin over Nickel plating

## 2.00mm (.079") Pitch CLIK-Mate™ Wire-to-Board PCB Receptacle

**502494**  
Single Row  
Right Angle



Circuits	Order No.	Lead-free
4	<a href="#">502494-0470</a>	Yes
6	<a href="#">502494-0670</a>	
8	<a href="#">502494-0870</a>	
12	<a href="#">502494-1270</a>	
13	<a href="#">502494-1370</a>	
14	<a href="#">502494-1470</a>	

### Features and Benefits

- Sizes 4 to 14 circuits
- Audible “click,” low insertion force and secure mating
- Tuning fork style contact design secures contact and avoids terminal stubbing
- Reinforced metal solder tabs enable housing wall support and secure PCB retention
- Flat area for pick-and-place is provided

### Reference Information

Product Specification: PS-502443-001  
Packaging: Embossed tape  
Mates With: 502439  
Designed In: Millimeters

### Electrical

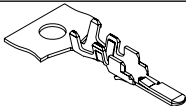
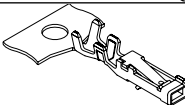
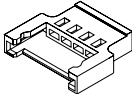
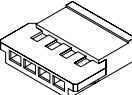
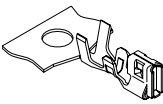
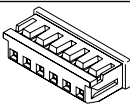
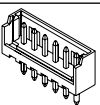
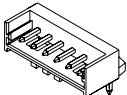
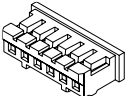
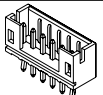
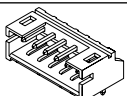
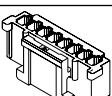
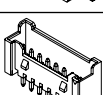
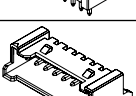
Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 800V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Heatproof resin, UL 94V-0  
Contact: Copper Alloy  
Plating: Tin over Nickel  
Fitting Nail: Copper Alloy, Tin over Nickel plating



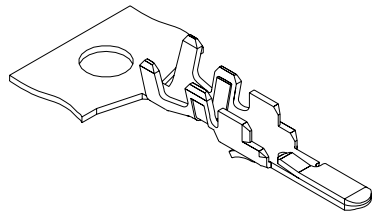
# 2.00mm (.079") Pitch

Pitch	Series		Tradename	Description
2.00mm (.079")	50012			Male Crimp Terminal
	50013			Female Crimp Terminal
	51006			Plug
	51005			Receptacle
	50212			Micro-Latch™
	51065		Housing	
	53253		Header	
	53254		Header	
	87369		Housing	
	89400			Header
	89401			Header
	35507			Housing
	35362		Sherlock™	Header
	35363			Header

**B**  
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.00mm (.079") Pitch Wire-To-Wire Crimp Terminal

**50012**  
Male



Order No.	Packaging	Lead-free
<a href="#">50012-8000</a>	Reel	Yes
<a href="#">50012-8100</a>	Bag	

### Features and Benefits

- Locking tang for secure housing retention

### Reference Information

Use With: 51006

Mates With: 50013

Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	24	26	28
	2.0A	1.5A	1.0A

### Physical

Contact: Phosphor Bronze

Plating: Tin

Wire Range: 24 to 28 AWG

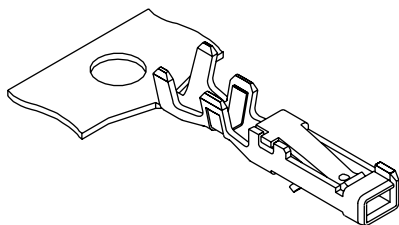
Insulation Diameter: 1.15mm dia. max.

Strip Length: 1.70 to 2.30mm

[www.molex.com/customer.html?seriesNumber=50012](http://www.molex.com/customer.html?seriesNumber=50012)

## 2.00mm (.079") Pitch Wire-to-Wire Crimp Terminal

**50013**  
Female



Order No.	Packaging	Lead-free
<a href="#">50013-8000</a>	Reel	Yes
<a href="#">50013-8100</a>	Bag	

### Features and Benefits

- Spring beam design provides high pressure and small deflection for high vibration applications
- Locking tang for secure housing retention

### Reference Information

Use With: 51005

Mates With: 50012

Designed In: Millimeters

### Electrical

Voltage: 125V max.

Current:

AWG	24	26	28
	2.0A	1.5A	1.0A

### Physical

Contact: Phosphor Bronze

Plating: Tin

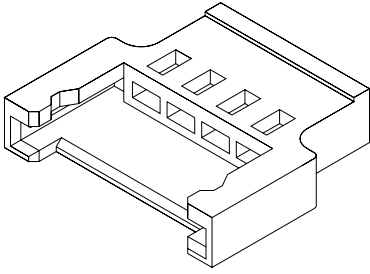
Wire Range: 24 to 28 AWG

Insulation Diameter: 1.15mm dia. max.

Strip Length: 1.70 to 2.30mm

## 2.00mm (.079") Pitch Wire-to-Wire Plug

51006



Circuits	Order No.
2	<a href="#">51006-0200</a>
3	<a href="#">51006-0300</a>
4	<a href="#">51006-0400</a>
5	<a href="#">51006-0500</a>

### Features and Benefits

- Sizes 2 to 5 circuits
- Very thin design

### Reference Information

Product Specification: PS-51005-001  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 51005  
 Use With: 50012  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	24	26	28
	2.0A	1.5A	1.0A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 100 Megohms min.

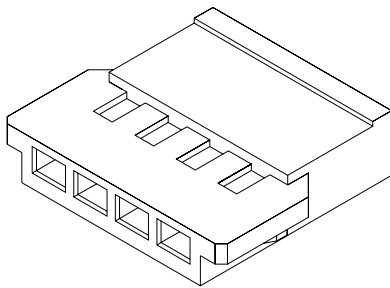
### Physical

Housing: PBTP, UL 94V-0

[www.molex.com/customer.html?seriesNumber=51006](http://www.molex.com/customer.html?seriesNumber=51006)

## 2.00mm (.079") Pitch Wire-to-Wire Receptacle

51005



Circuits	Order No.
2	<a href="#">51005-0200</a>
3	<a href="#">51005-0300</a>
4	<a href="#">51005-0400</a>
5	<a href="#">51005-0500</a>

### Features and Benefits

- Sizes 2 to 5 circuits
- Very thin design

### Reference Information

Product Specification: PS-51005-001  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 51006  
 Use With: 50013  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	24	26	28
	2.0A	1.5A	1.0A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 100 Megohms min.

### Physical

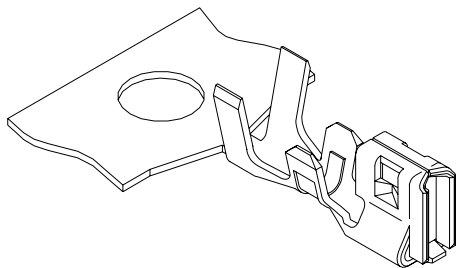
Housing: PBTP, UL 94V-0

B

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.00mm (.079") Pitch Wire-to-Board Crimp Terminal

**50212**



Order No.	Packaging	Lead-free
<a href="#">50212-8000</a>	Reel	Yes
<a href="#">50212-8100</a>	Bag	

### Features and Benefits

- Locking tang provides terminal retention to housing

### Reference Information

Use With: 35507, 51065, 51089, 51090 and 87369 housings  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

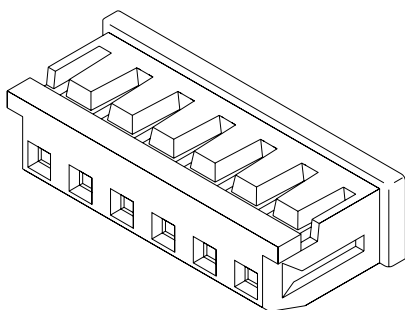
### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 24 to 30 AWG  
Insulation Range: 1.40mm dia. max.  
Strip Length: 1.3 to 1.8mm

[www.molex.com/customer.html?seriesNumber=50212](http://www.molex.com/customer.html?seriesNumber=50212)

## 2.00mm (.079") Pitch Micro-Latch™ Wire-to-Board Housing

**51065**



### Features and Benefits

- Sizes 2 to 15 circuits
- Housing lance provides extra terminal retention
- Friction lock provides secure mating

### Reference Information

Product Specification: PS-51065-016  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 53253 and 53254  
Use With: 50212  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

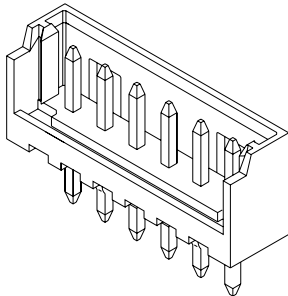
Housing: PBT, UL 94V-0

Circuits	Order No.
2	<a href="#">51065-0200</a>
3	<a href="#">51065-0300</a>
4	<a href="#">51065-0400</a>
5	<a href="#">51065-0500</a>
6	<a href="#">51065-0600</a>

Circuits	Order No.
7	<a href="#">51065-0700</a>
8	<a href="#">51065-0800</a>
9	<a href="#">51065-0900</a>
10	<a href="#">51065-1000</a>
11	<a href="#">51065-1100</a>

Circuits	Order No.
12	<a href="#">51065-1200</a>
13	<a href="#">51065-1300</a>
14	<a href="#">51065-1400</a>
15	<a href="#">51065-1500</a>

# 2.00mm (.079") Pitch Micro-Latch™ Wire-to-Board Header 53253 Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

### Reference Information

Product Specification: PS-51065-016  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51065  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

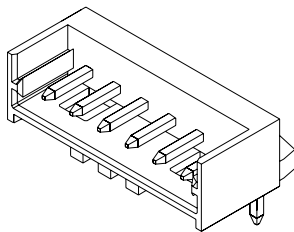
Housing: Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53253-0270</a>	Yes
3	<a href="#">53253-0370</a>	
4	<a href="#">53253-0470</a>	
5	<a href="#">53253-0570</a>	
6	<a href="#">53253-0670</a>	
7	<a href="#">53253-0770</a>	
8	<a href="#">53253-0870</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53253-0970</a>	Yes
10	<a href="#">53253-1070</a>	
11	<a href="#">53253-1170</a>	
12	<a href="#">53253-1270</a>	
13	<a href="#">53253-1370</a>	
14	<a href="#">53253-1470</a>	
15	<a href="#">53253-1570</a>	

Circuits	Kink Position							
	1	2	3	4	5	N-2	N-1	N
3	x	x	x					
4	x	x	x	x				
5	x	x		x	x			
more than 6		x	x			x	x	

# 2.00mm (.079") Pitch Micro-Latch™ Wire-to-Board Header 53254 Right Angle



### Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

### Reference Information

Product Specification: PS-51065-016  
Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51065  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin

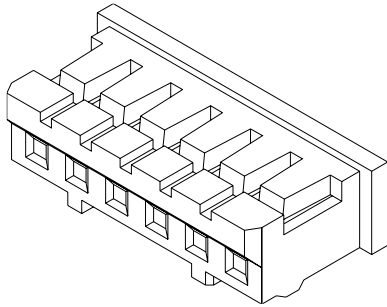
Circuits	Order No.	Lead-free
2	<a href="#">53254-0270</a>	Yes
3	<a href="#">53254-0370</a>	
4	<a href="#">53254-0470</a>	
5	<a href="#">53254-0570</a>	
6	<a href="#">53254-0670</a>	
7	<a href="#">53254-0770</a>	
8	<a href="#">53254-0870</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53254-0970</a>	Yes
10	<a href="#">53254-1070</a>	
11	<a href="#">53254-1170</a>	
12	<a href="#">53254-1270</a>	
13	<a href="#">53254-1370</a>	
14	<a href="#">53254-1470</a>	
15	<a href="#">53254-1570</a>	

Circuits	Kink Position							
	1	2	3	4	5	N-2	N-1	N
3	x	x	x					
4	x	x	x	x				
5	x	x		x	x			
more than 6		x	x			x	x	

## 2.00mm (.079") Pitch Wire-to-Board Crimp Housing

### 87369 Single Row



#### Features and Benefits

- Sizes 2 to 16 circuits
- Two friction locks
- Positive polarization
- Pull tab for easy insertion/extraction

#### Reference Information

Product Specification: PS-87369-0001, PS-87369-0002  
 Packaging: Bag  
 Use With: 50212 crimp terminal  
 Mates With: 89400 and 89401 single row headers  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 2.0A max.  
 Contact Resistance: 40 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: Nylon, UL 94V-0

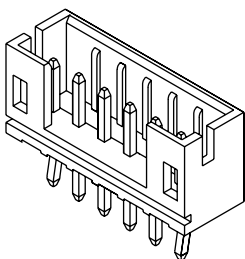
Circuits	Order No.
2	<a href="#">87369-0200</a>
3	<a href="#">87369-0300</a>
4	<a href="#">87369-0400</a>
5	<a href="#">87369-0500</a>
6	<a href="#">87369-0600</a>
7	<a href="#">87369-0700</a>
8	<a href="#">87369-0800</a>
9	<a href="#">87369-0900</a>

Circuits	Order No.
10	<a href="#">87369-1000</a>
11	<a href="#">87369-1100</a>
12	<a href="#">87369-1200</a>
13	<a href="#">87369-1300</a>
14	<a href="#">87369-1400</a>
15	<a href="#">87369-1500</a>
16	<a href="#">87369-1600</a>

[www.molex.com/customer.html?seriesNumber=87369](http://www.molex.com/customer.html?seriesNumber=87369)

## 2.00mm (.079") Pitch Wire-to-Board Header

### 89400 Vertical



#### Features and Benefits

- Sizes 2 to 16 circuits
- Latch windows retain positive locks after mating
- Standoffs minimize flux retention
- Coined version available for positive pin retention to header
- For other color options, contact Molex

#### Reference Information

Product Specification: PS-87369-0001, PS-87369-0002  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980A  
 Mates With: 87369  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 4.0A max.  
 Contact Resistance: 40 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

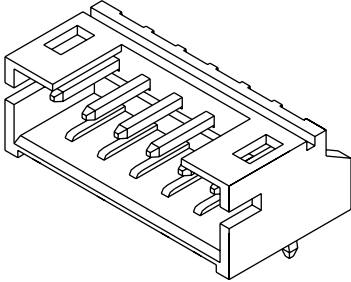
Housing: Nylon, UL 94V-0  
 Contact: Brass  
 Plating: Tin

Circuits	Order No.		Lead-free
	Standard	Coined	
2		<a href="#">89400-0220</a>	Yes
3		<a href="#">89400-0320</a>	
4	<a href="#">89400-0410</a>	<a href="#">89400-0420</a>	
5	<a href="#">89400-0510</a>	<a href="#">89400-0520</a>	
6	<a href="#">89400-0610</a>	<a href="#">89400-0620</a>	
7	<a href="#">89400-0710</a>	<a href="#">89400-0720</a>	
8	<a href="#">89400-0810</a>	<a href="#">89400-0820</a>	
9	<a href="#">89400-0910</a>	<a href="#">89400-0920</a>	

Circuits	Order No.		Lead-free
	Standard	Coined	
10	<a href="#">89400-1010</a>	<a href="#">89400-1020</a>	Yes
11	<a href="#">89400-1110</a>	<a href="#">89400-1120</a>	
12	<a href="#">89400-1210</a>	<a href="#">89400-1220</a>	
13	<a href="#">89400-1310</a>	<a href="#">89400-1320</a>	
14	<a href="#">89400-1410</a>	<a href="#">89400-1420</a>	
15	<a href="#">89400-1510</a>	<a href="#">89400-1520</a>	
16	<a href="#">89400-1610</a>	<a href="#">89400-1620</a>	

## 2.00mm (.079") Pitch Wire-to-Board Header

### 89401 Right Angle



#### Features and Benefits

- Sizes 2 to 16 circuits
- Latch windows retain positive locks after mating
- Standoffs minimize flux retention
- Coined version for positive pin retention to header

#### Reference Information

Product Specification: PS-87369-0002  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980A  
 Mates With: 87369  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 4.0A max.  
 Contact Resistance: 40 milliohms max.  
 Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: Nylon, UL 94V-0  
 Contact: Brass  
 Plating: Tin

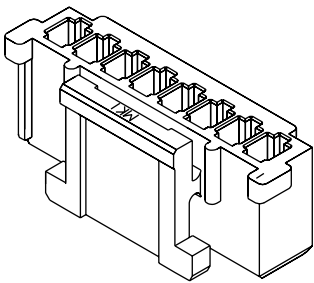
Circuits	Order No.	Lead-free
2	<a href="#">89401-0210</a>	Yes
3	<a href="#">89401-0310</a>	
4	<a href="#">89401-0410</a>	
5	<a href="#">89401-0510</a>	
6	<a href="#">89401-0610</a>	
7	<a href="#">89401-0710</a>	
8	<a href="#">89401-0810</a>	
9	<a href="#">89401-0910</a>	

Circuits	Order No.	Lead-free
10	<a href="#">89401-1010</a>	Yes
11	<a href="#">89401-1110</a>	
12	<a href="#">89401-1210</a>	
13	<a href="#">89401-1310</a>	
14	<a href="#">89401-1410</a>	
15	<a href="#">89401-1510</a>	
16	<a href="#">89401-1610</a>	

[www.molex.com/customer.html?seriesNumber=89401](http://www.molex.com/customer.html?seriesNumber=89401)

## 2.00mm (.079") Pitch Sherlock™ Wire-to-Board Housing

### 35507



#### Features and Benefits

- Sizes 2 to 20 circuits
- Positive lock latch provides secure mating retention
- Housing lance ensures good terminal retention
- Compact low-profile design for space savings
- Polarizing end walls prevent mismatching
- Five color choices for circuit identification

#### Reference Information

Product Specification: PS-35507-003  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 35362 and 35363 headers  
 Use With: 50212 terminal  
 Designed In: Millimeters

#### Electrical

Voltage: 125V max.  
 Current: 2.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: PBT, UL 94V-0

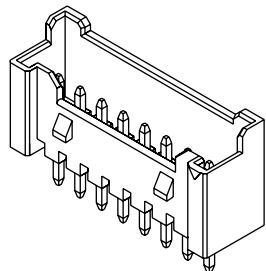
Circuits	Order No.
2	<a href="#">35507-0200</a>
3	<a href="#">35507-0300</a>
4	<a href="#">35507-0400</a>
5	<a href="#">35507-0500</a>
6	<a href="#">35507-0600</a>
7	<a href="#">35507-0700</a>
8	<a href="#">35507-0800</a>

Circuits	Order No.
9	<a href="#">35507-0900</a>
10	<a href="#">35507-1000</a>
11	<a href="#">35507-1100</a>
12	<a href="#">35507-1200</a>
13	<a href="#">35507-1300</a>
14	<a href="#">35507-1400</a>
15	<a href="#">35507-1500</a>

Circuits	Order No.
16	<a href="#">35507-1600</a>
17	<a href="#">35507-1700</a>
18	<a href="#">35507-1800</a>
19	<a href="#">35507-1900</a>
20	<a href="#">35507-2000</a>

## 2.00mm (.079") Pitch Sherlock™ Wire-to-Board Header

**35362**  
Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Positive locking ribs provide secure mating retention
- Four-wall shroud with guide plate protects pins and facilitates mating
- Compact low-profile design for space savings
- Polarizing end walls prevent mismatching
- Five color choices for circuit identification

### Reference Information

Product Specification: PS-35507-003  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 35507 housing  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: PA, UL 94V-0  
Contact: Brass  
Plating: Tin

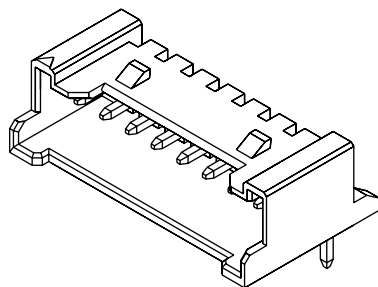
Circuits	Order No.	Lead-free
2	<a href="#">35362-0250</a>	Yes
3	<a href="#">35362-0350</a>	
4	<a href="#">35362-0450</a>	
5	<a href="#">35362-0550</a>	
6	<a href="#">35362-0650</a>	

Circuits	Order No.	Lead-free
7	<a href="#">35362-0750</a>	Yes
8	<a href="#">35362-0850</a>	
9	<a href="#">35362-0950</a>	
11	<a href="#">35362-1150</a>	
12	<a href="#">35362-1250</a>	

Circuits	Order No.	Lead-free
13	<a href="#">35362-1350</a>	Yes
14	<a href="#">35362-1450</a>	
15	<a href="#">35362-1550</a>	

## 2.00mm (.079") Pitch Sherlock™ Wire-to-Board Header

**35363**  
Right Angle



### Features and Benefits

- Sizes 2 to 20 circuits
- Positive locking ribs provide secure mating retention
- Four-wall shroud with guide plate protects pins and facilitates mating
- Compact low-profile design for space savings
- Polarizing end walls prevent mismatching
- Five color choices for circuit identification

### Reference Information

Product Specification: PS-35507-003  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 35507 housing  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: PA, UL 94V-0  
Contact: Brass  
Plating: Tin

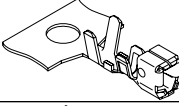
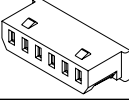

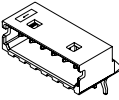
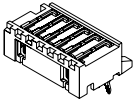

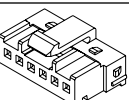
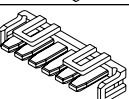
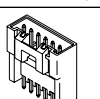
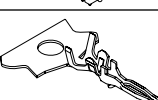
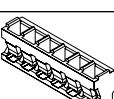
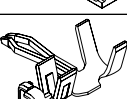
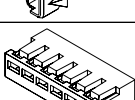
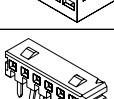
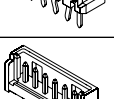
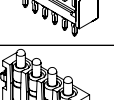
Circuits	Order No.	Lead-free
2	<a href="#">35363-0260</a>	Yes
3	<a href="#">35363-0360</a>	
4	<a href="#">35363-0460</a>	
5	<a href="#">35363-0560</a>	
6	<a href="#">35363-0660</a>	
7	<a href="#">35363-0760</a>	

Circuits	Order No.	Lead-free
8	<a href="#">35363-0860</a>	Yes
9	<a href="#">35363-0960</a>	
10	<a href="#">35363-1060</a>	
11	<a href="#">35363-1160</a>	
12	<a href="#">35363-1260</a>	
13	<a href="#">35363-1360</a>	

Circuits	Order No.	Lead-free
14	<a href="#">35363-1460</a>	Yes
15	<a href="#">35363-1560</a>	
17	<a href="#">35363-1760</a>	
20	<a href="#">35363-2060</a>	

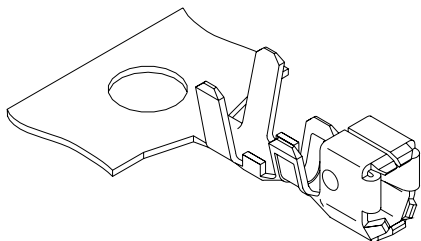


# 2.00mm (.079") Pitch

Pitch	Series		Tradename	Description
2.00mm (.079")	50011		MicroBlade™	Female Crimp Terminal
	51004			Housing
	53014			Header
	53015			Header
	53025			Header, Bottom Entry
	59370		iLock™	Female Crimp Terminal
	51216			Housing
	51217			Retainer
	55487			Header
	50034		Board-In	Crimp Terminal
	51015			Housing
	35021			Crimp Terminal
	35023			Housing
	52418		Board-to-Board	Receptacle
	53290			Header
	47282		Pogo Pin	Connector

**B**  
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.00mm (.079") Pitch MicroBlade™ Wire-to-Board Crimp Terminal 50011



Order No.	Packaging	Lead-free
<a href="#">50011-8000</a>	Reel	Yes
<a href="#">50011-8100</a>	Bag	

### Features and Benefits

- Box design provides 2 points of contact and terminal protection
- Locking tang for secure housing retention

### Reference Information

Use With: 51004  
Designed In: Millimeters

### Electrical

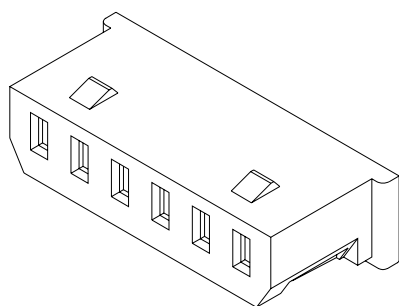
Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 24 to 30 AWG  
Insulation Range: 1.40mm dia. max.  
Strip Length: 1.60 to 2.10mm

## 2.00mm (.079") Pitch MicroBlade™ Wire-to-Board Housing 51004



### Features and Benefits

- Sizes 2 to 15 circuits
- Housing lance provides extra terminal retention
- Friction lock provides secure mating

### Reference Information

Product Specification: PS-51004-002  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 53014, 53015 and 53025  
Use With: 50011  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current: 2.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

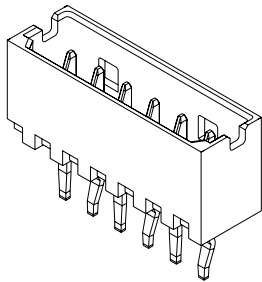
### Physical

Housing: PBT, UL 94V-0

Circuits	Order No.
2	<a href="#">51004-0200</a>
3	<a href="#">51004-0300</a>
4	<a href="#">51004-0400</a>
5	<a href="#">51004-0500</a>
6	<a href="#">51004-0600</a>
7	<a href="#">51004-0700</a>
8	<a href="#">51004-0800</a>

Circuits	Order No.
9	<a href="#">51004-0900</a>
10	<a href="#">51004-1000</a>
11	<a href="#">51004-1100</a>
12	<a href="#">51004-1200</a>
13	<a href="#">51004-1300</a>
14	<a href="#">51004-1400</a>
15	<a href="#">51004-1500</a>

# 2.00mm (.079") Pitch MicroBlade™ Wire-to-Board Header 53014 Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provide secure mating

### Reference Information

Product Specification: PS-51004-002  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51004  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

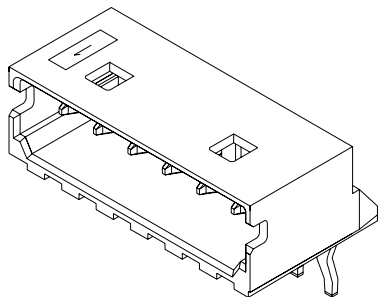
### Physical

Housing: Nylon, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53014-0210</a>	Yes
3	<a href="#">53014-0310</a>	
4	<a href="#">53014-0410</a>	
5	<a href="#">53014-0510</a>	
6	<a href="#">53014-0610</a>	
7	<a href="#">53014-0710</a>	
8	<a href="#">53014-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53014-0910</a>	Yes
10	<a href="#">53014-1010</a>	
11	<a href="#">53014-1110</a>	
12	<a href="#">53014-1210</a>	
13	<a href="#">53014-1310</a>	
14	<a href="#">53014-1410</a>	
15	<a href="#">53014-1510</a>	

# 2.00mm (.079") Pitch MicroBlade™ Wire-to-Board Header 53015 Right Angle



### Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows provides secure mating

### Reference Information

Product Specification: PS-51004-002  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51004  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

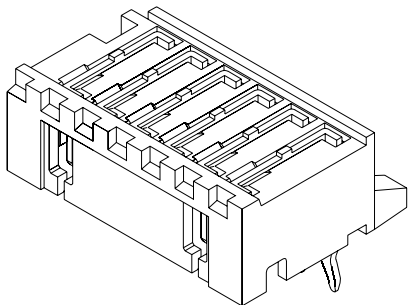
Housing: Nylon, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53015-0210</a>	Yes
3	<a href="#">53015-0310</a>	
4	<a href="#">53015-0410</a>	
5	<a href="#">53015-0510</a>	
6	<a href="#">53015-0610</a>	
7	<a href="#">53015-0710</a>	
8	<a href="#">53015-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53015-0910</a>	Yes
10	<a href="#">53015-1010</a>	
11	<a href="#">53015-1110</a>	
12	<a href="#">53015-1210</a>	
13	<a href="#">53015-1310</a>	
14	<a href="#">53015-1410</a>	
15	<a href="#">53015-1510</a>	

## 2.00mm (.079") Pitch MicroBlade™ Wire-to-Board Header

**53025**  
Bottom Entry



Circuits	Order No.	Lead-free
2	<a href="#">53025-0210</a>	Yes
3	<a href="#">53025-0310</a>	
4	<a href="#">53025-0410</a>	
5	<a href="#">53025-0510</a>	
6	<a href="#">53025-0610</a>	
7	<a href="#">53025-0710</a>	
8	<a href="#">53025-0810</a>	
9	<a href="#">53025-0910</a>	
10	<a href="#">53025-1010</a>	

### Features and Benefits

- Sizes 2 to 10 circuits
- Locking windows provide secure mating

### Reference Information

Product Specification: PS-51004-002  
Packaging: Tray  
Mates With: 51004  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	24	26	28	30
	2.0A	1.5A	1.0A	0.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

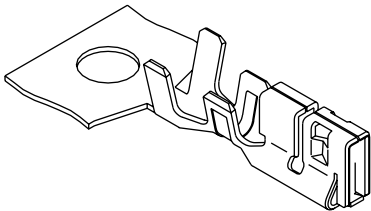
### Physical

Housing: Nylon, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

[www.molex.com/product/microblade.html](http://www.molex.com/product/microblade.html)

## 2.00mm (.079") Pitch Wire-to-Board Crimp Terminal

**59370**  
Female



Order No.	Packaging	Lead-free
<a href="#">59370-8000</a>	Reel	Yes
<a href="#">59370-8100</a>	Bag	

### Features and Benefits

- Two points of contact for good electrical reliability
- Double-box design for retainer support

### Reference Information

Use With: 51216  
Designed In: Millimeters

### Electrical

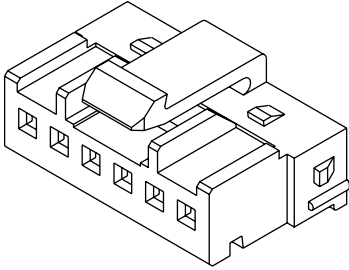
Voltage: 250V max.  
Current: 2.5A max.

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 22 to 28 AWG  
Insulation Diameter: 1.50mm (.059") max.  
Strip Length: 1.60 to 2.00mm (.063 to .079")

## 2.00mm (.079") Pitch Wire-to-Board Housing

### 51216 Positive Lock



#### Features and Benefits

- Sizes 2 to 15 circuits
- Internal push-type positive lock provides secure retention, easy mating and latch protection during harness assembly
- Side ribs for latch protection and polarization
- Housing lance provides secure terminal retention

#### Reference Information

Product Specification: PS-51216-007  
 Packaging: Bag  
 Mates With: 55487 and 55755  
 Use With: 59370 terminal and 51217 retainer  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 2.5A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: PBTP, UL 94V-0

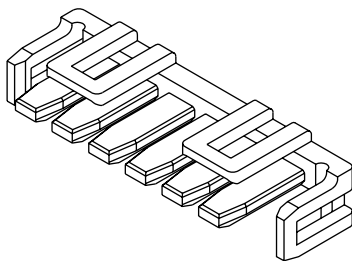
Circuits	Order No.
2	<a href="#">51216-0200</a>
4	<a href="#">51216-0400</a>
5	<a href="#">51216-0500</a>
6	<a href="#">51216-0600</a>
7	<a href="#">51216-0700</a>
8	<a href="#">51216-0800</a>
9	<a href="#">51216-0900</a>

Circuits	Order No.
10	<a href="#">51216-1000</a>
11	<a href="#">51216-1100</a>
12	<a href="#">51216-1200</a>
13	<a href="#">51216-1300</a>
14	<a href="#">51216-1400</a>
15	<a href="#">51216-1500</a>

[www.molex.com/customer.html?seriesNumber=51216](http://www.molex.com/customer.html?seriesNumber=51216)

## 2.00mm (.079") Pitch Wire-to-Board Retainer

### 51217



#### Features and Benefits

- Sizes 2 to 15 circuits
- Provides additional terminal retention
- Space-saving design snaps easily onto housing

#### Reference Information

Product Specification: PS-51216-007  
 Packaging: Bag  
 Use With: 51216  
 Designed In: Millimeters

#### Physical

Housing: Gray PBTP, UL 94V-0

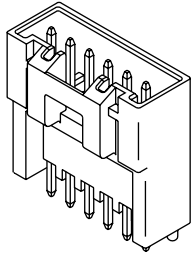
Circuits	Order No.
2	<a href="#">51217-0205</a>
4	<a href="#">51217-0405</a>
5	<a href="#">51217-0505</a>
6	<a href="#">51217-0605</a>
7	<a href="#">51217-0705</a>
8	<a href="#">51217-0805</a>
9	<a href="#">51217-0905</a>

Circuits	Order No.
10	<a href="#">51217-1005</a>
11	<a href="#">51217-1105</a>
12	<a href="#">51217-1205</a>
13	<a href="#">51217-1305</a>
14	<a href="#">51217-1405</a>
15	<a href="#">51217-1505</a>

## 2.00mm (.079") Pitch Wire-to-Board Header

**55487**

**Vertical  
Fully Shrouded**



### Features and Benefits

- Sizes 2 to 15 circuits
- Internal push-type positive lock provides secure retention, polarization and easy mating/unmating
- Potting type used for sealing components in white goods applications
- Polarization pegs assist placement

### Reference Information

Product Specification: PS-51216-007  
Packaging: Tray  
Mates With: 51216  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 2.5A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin over Copper

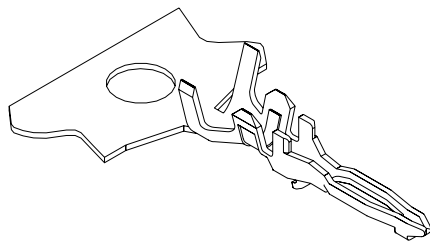
Circuits	Order No.	Lead-free
2	<a href="#">55487-0219</a>	Yes
3	<a href="#">55487-0319</a>	
4	<a href="#">55487-0419</a>	
5	<a href="#">55487-0519</a>	
6	<a href="#">55487-0619</a>	
7	<a href="#">55487-0719</a>	
8	<a href="#">55487-0819</a>	

Circuits	Order No.	Lead-free
9	<a href="#">55487-0919</a>	Yes
10	<a href="#">55487-1019</a>	
11	<a href="#">55487-1119</a>	
12	<a href="#">55487-1219</a>	
13	<a href="#">55487-1319</a>	
14	<a href="#">55487-1419</a>	
15	<a href="#">55487-1519</a>	

[www.molex.com/customer.html?seriesNumber=55487](http://www.molex.com/customer.html?seriesNumber=55487)

## 2.00mm (.079") Pitch Board-In Connector Crimp Terminal

**50034**



### Features and Benefits

- Locking tang secures terminal to housing

### Reference Information

Use With: 51015  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current:

AWG	26	28	30
	2.0A	1.5A	1.0A

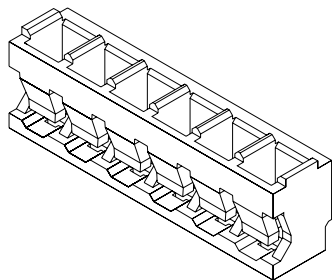
### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 26 to 30 AWG  
Insulation Range: 1.40mm dia. max.  
Strip Length: 1.40 to 1.90mm

Order No.	Packaging	Lead-free
<a href="#">50034-8000</a>	Reel	Yes
<a href="#">50034-8100</a>	Bag	

## 2.00mm (.079") Pitch Board-In Connector Housing

51015



### Features and Benefits

- Sizes 2 to 15 circuits
- Low profile of 3.8mm
- Locking windows secure terminal to housing

### Reference Information

Product Specification: PS-51015-002  
 Packaging: Bag  
 Use With: 50034  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	26	28	30
	2.0A	1.5A	1.0A

Dielectric Withstanding Voltage: 500V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0

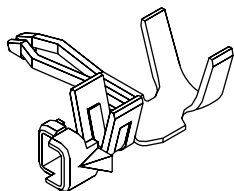
Circuits	Order No.
2	<a href="#">51015-0200</a>
3	<a href="#">51015-0300</a>
4	<a href="#">51015-0400</a>
5	<a href="#">51015-0500</a>
6	<a href="#">51015-0600</a>
7	<a href="#">51015-0700</a>
8	<a href="#">51015-0800</a>

Circuits	Order No.
9	<a href="#">51015-0900</a>
10	<a href="#">51015-1000</a>
11	<a href="#">51015-1100</a>
12	<a href="#">51015-1200</a>
13	<a href="#">51015-1300</a>
14	<a href="#">51015-1400</a>
15	<a href="#">51015-1500</a>

[www.molex.com/product/board\\_in.html](http://www.molex.com/product/board_in.html)

## 2.00/2.50mm (.079/.098") Board-In Connector Crimp Terminal

35021  
 Right Angle



### Features and Benefits

- Very low profile
- Wide wire range (24 to 30 AWG)
- Locking tab secures terminal to housing
- Diamond-shaped PC tail ensures secure PCB retention

### Reference Information

Packaging: Reel  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Use With: 35023 housings  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current:

AWG	24	26	28	30
	2.5A	1.5A	1.0A	0.5A

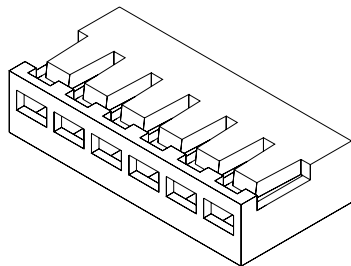
### Physical

Contact: See Table  
 Plating: See Table  
 Wire Range: 24 to 30 AWG  
 Insulation Range: 35023—1.50mm dia. max. (24 AWG)

Order No.	Contact Material	Plating	Lead-free
<a href="#">35021-1201</a>	Brass	Pre-Tin	Yes
<a href="#">35021-1301</a>	Phosphor Bronze		
<a href="#">35021-1360</a>		Post-Tin	

# 2.00mm (.079") Pitch Board-In Connector Housing

## 35023 Right Angle



### Features and Benefits

- Sizes 2 to 16 circuits
- Low profile (2.85mm)
- Terminal locking window
- Solders directly to PCB

### Reference Information

Product Specification: PS-35023-001  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Use With: 35021 and 35044 terminal  
 Designed In: Millimeters

### Electrical

Voltage: 125V max.  
 Current: 2.5A max.  
 Contact Resistance: 5 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">35023-0002</a>
3	<a href="#">35023-0003</a>
4	<a href="#">35023-0004</a>
5	<a href="#">35023-0005</a>
6	<a href="#">35023-0006</a>

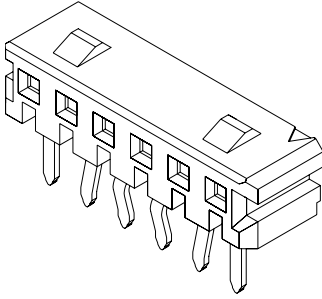
Circuits	Order No.
7	<a href="#">35023-0007</a>
8	<a href="#">35023-0008</a>
9	<a href="#">35023-0009</a>
10	<a href="#">35023-0010</a>
11	<a href="#">35023-0011</a>

Circuits	Order No.
12	<a href="#">35023-0012</a>
13	<a href="#">35023-0013</a>
14	<a href="#">35023-0014</a>
16	<a href="#">35023-0016</a>



# 2.00mm (.079") Pitch Board-to-Board Receptacle

**52418**  
Right Angle



**Features and Benefits**

- Sizes 3 to 20 circuits

**Reference Information**

Production Specification: PS-52418-003  
Packaging: Tray and Tube  
Mates With: 53290  
Designed In: Millimeters

**Electrical**

Voltage: 125V max.  
Current: 1.5A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

**Physical**

Housing: Glass-filled PBT, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

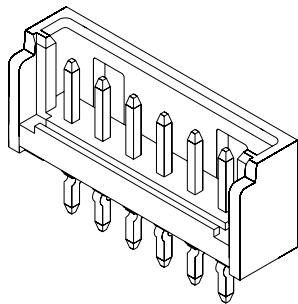
Circuits	Order No.		Lead-free
	Tray	Tube	
3	<a href="#">52418-0310</a>	<a href="#">52418-0390</a>	Yes
4	<a href="#">52418-0410</a>	<a href="#">52418-0490</a>	
5	<a href="#">52418-0510</a>	<a href="#">52418-0590</a>	
6	<a href="#">52418-0610</a>	<a href="#">52418-0690</a>	
7	<a href="#">52418-0710</a>	<a href="#">52418-0790</a>	
8	<a href="#">52418-0810</a>	-	
9	<a href="#">52418-0910</a>	<a href="#">52418-0990</a>	
10	<a href="#">52418-1010</a>	-	
11	<a href="#">52418-1110</a>	<a href="#">52418-1190</a>	

Circuits	Order No.		Lead-free
	Tray	Tube	
12	<a href="#">52418-1210</a>	<a href="#">52418-1290</a>	Yes
13	<a href="#">52418-1310</a>	<a href="#">52418-1390</a>	
14	<a href="#">52418-1410</a>	<a href="#">52418-1490</a>	
15	<a href="#">52418-1510</a>	<a href="#">52418-1590</a>	
16	<a href="#">52418-1610</a>	<a href="#">52418-1690</a>	
17	<a href="#">52418-1710</a>	<a href="#">52418-1790</a>	
18	<a href="#">52418-1810</a>	<a href="#">52418-1890</a>	
19	<a href="#">52418-1910</a>	-	
20	<a href="#">52418-2010</a>	<a href="#">52418-2090</a>	

[www.molex.com/customer.html?seriesNumber=52418](http://www.molex.com/customer.html?seriesNumber=52418)

# 2.00mm (.079") Pitch Board-to-Board Plug

**53290**  
Vertical



**Features and Benefits**

- Sizes 3 to 20 circuits
- Friction lock and kinked tails provide additional mating and PCB retention

**Reference Information**

Production Specification: PS-52418-003  
Packaging: Tube (XX71)/Tray (XX80)  
Mates With: 52418  
Designed In: Millimeters

**Electrical**

Voltage: 125V max.  
Current: 1.5A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 500V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

**Physical**

Housing: Glass-filled PBT, UL 94V-0  
Contact: Brass  
Plating: Tin

Circuits	Order No.		Lead-free
	Without Kinked Tail	With Kinked Tail	
3	<a href="#">53290-0371</a>	<a href="#">53290-0380</a>	Yes
4	-	<a href="#">53290-0480</a>	
5	<a href="#">53290-0571</a>	<a href="#">53290-0580</a>	
6	<a href="#">53290-0671</a>	<a href="#">53290-0680</a>	
7	-	<a href="#">53290-0780</a>	
8	<a href="#">53290-0871</a>	<a href="#">53290-0880</a>	
9	<a href="#">53290-0971</a>	<a href="#">53290-0980</a>	
10	<a href="#">53290-1071</a>	<a href="#">53290-1080</a>	
11	<a href="#">53290-1171</a>	<a href="#">53290-1180</a>	

Circuits	Order No.		Lead-free
	Without Kinked Tail	With Kinked Tail	
12	<a href="#">53290-1271</a>	<a href="#">53290-1280</a>	Yes
13	<a href="#">53290-1371</a>	<a href="#">53290-1380</a>	
14	<a href="#">53290-1471</a>	<a href="#">53290-1480</a>	
15	<a href="#">53290-1571</a>	<a href="#">53290-1580</a>	
16	-	<a href="#">53290-1680</a>	
17	<a href="#">53290-1771</a>	<a href="#">53290-1780</a>	
18	<a href="#">53290-1871</a>	<a href="#">53290-1880</a>	
19	-	<a href="#">53290-1980</a>	
20	<a href="#">53290-2071</a>	<a href="#">53290-2080</a>	

[www.molex.com/customer.html?seriesNumber=53290](http://www.molex.com/customer.html?seriesNumber=53290)



MX10 B-41

# 2.00mm (.079") Pitch Dual Row Custom Headers

### Features and Benefits

- Sizes 4 to 50 circuits
- End-to-end stackable versions for modular configurations
- Optional voided pin version for polarization to the mating part available
- Optional kinked PC tail are available for through hole and right angle versions
- Available with and without locating pegs
- Pick-and-place cap versions available
- Tape and reel packaging options available

### Reference Information

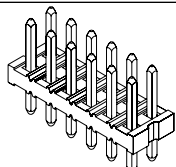
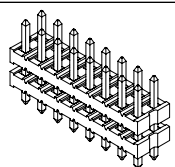
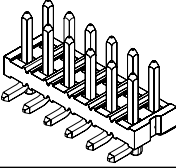
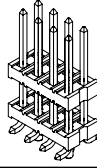
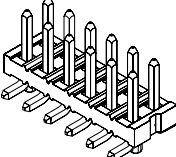
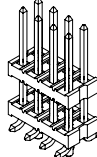
Product Specification: PS-87761-100  
 Packaging: Tray, tube or bag  
 Mates With: Milli-Grid 2.00mm Receptacles  
 Designed In: Millimeters

### Electrical

Voltage: 125V  
 Current: 2.0A  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 500V  
 Insulation Resistance: 50 Megohms min.

### Physical

Housing: Black high-temperature nylon, UL94V-0  
 Contact: Copper Alloy, 0.50mm square  
 Plating: Tin, Gold Flash, 10µ" Select Gold, 15µ" Select Gold and 30µ" Select Gold  
 PCB Thickness: 1.60+/-0.10mm

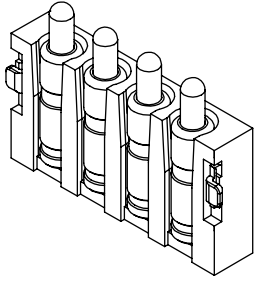
	Single Body Options	Series		Dual Body Options	Series
	Vertical Through Hole	87758		Vertical Through Hole	87761
	Vertical SMT	87759		Vertical SMT	87762
	Vertical SMT with Pegs	87759		Vertical SMT with Pegs	87762

Contact factory for 2mm single row headers  
 Contact factory for standard versions

# 2.00mm (.079") Pitch Pogo Pin Connector

## 47282

### Right Angle, Surface Mount



Circuits	Order No.	Lead-free
4	<a href="#">47282-0001</a>	Yes

#### Features and Benefits

- Speaker, battery, vibrator or antenna contact applications
- Small footprint saves PCB real estate and provides more flexible design
- SMT lead-free configuration
- Initial height at 6.60mm (.260") and full-stroke working height at 5.60mm (.220")

#### Reference Information

Product Specification: PS-47282-001

Packaging: Tape on reel

Designed In: Millimeters

#### Electrical

Voltage: 12V DC

Current: 3.0A

Contact Resistance: 30 milliohms max.

Dielectric Withstanding Voltage: 500V DC

Insulation Resistance: 100 Megohms min.

#### Mechanical

Normal Force: 0.83N

Durability: 20,000 cycles

#### Physical

Housing: Glass-filled high-temperature thermoplastic, UL 94V-0

Contact: Copper Alloy

Plating: Contact Area—40µ" Gold

Solder Tail Area—Gold

Underplating: Nickel

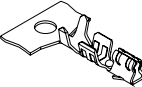
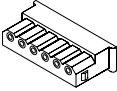
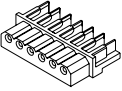
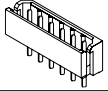
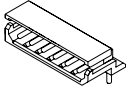
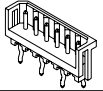
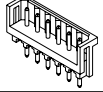
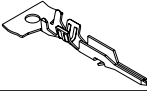
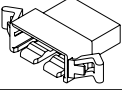
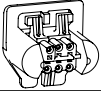

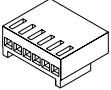
**B**

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

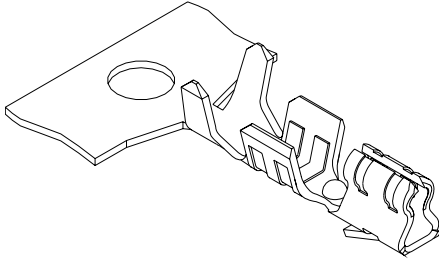
# 2.50mm (.098") Pitch

**B**

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

Pitch	Series		Tradename	Description
2.50mm (.098")	5263		Mini-SPOX™	Female Crimp Terminal
	5264-N			Housing
	42219			IDT Connector
	5267-NA			Header
	5268-NA			Header
	42249			Header
	42267			Header
	5241			Male Crimp Terminal
	5240			Plug Housing
	45579			SPOX BMI™
	45578		PCB Header	
	5051-N		KK®	Crimp Terminal Housing

# 2.50mm (.098") Pitch SPOX™ Wire-to-Board Crimp Terminal 5263 Spring Box



### Features and Benefits

- Very low profile
- Anti-fishhooking design
- Box protects pin contact area from contamination during handling

### Reference Information

Use With: 5264 housings  
Designed In: Millimeters

### Electrical

Voltage: 250V max.

Current:

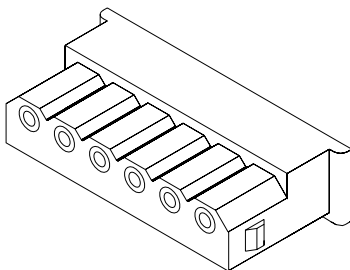
AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

### Physical

Contact: Phosphor Bronze  
Plating: Tin

Order No.	Packaging	Engineering No.	Wire Range AWG	Insulation Diameter	Lead-free
<a href="#">08-70-1039</a>	Reel	5263PBT	22-28	1.90 (.075) max.	Yes
<a href="#">08-70-1040</a>	Bag	5263PBTL			

# 2.50mm (.098") Pitch SPOX™ Wire-to-Board Crimp Terminal Housing 5264-N Shrouded



### Features and Benefits

- Sizes 2 to 15 circuits
- Very low profile
- Molded-in pull tabs
- Friction lock

### Reference Information

Product Specification: PS-5264-001  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 5267-NA-X and 5268-NA  
Use With: 5263 terminals  
Designed In: Millimeters

### Electrical

Voltage: 250V max.

Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 1000V AC/1 min.

Insulation Resistance: 1000 Megohms min.

### Physical

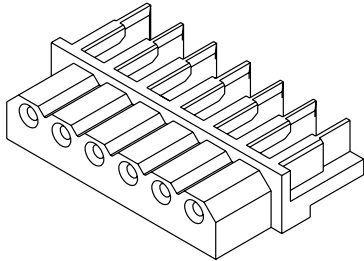
Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">50-37-5023</a>
3	<a href="#">50-37-5033</a>
4	<a href="#">50-37-5043</a>
5	<a href="#">50-37-5053</a>
6	<a href="#">50-37-5063</a>
7	<a href="#">50-37-5073</a>
8	<a href="#">50-37-5083</a>

Circuits	Order No.
9	<a href="#">50-37-5093</a>
10	<a href="#">50-37-5103</a>
11	<a href="#">50-37-5113</a>
12	<a href="#">50-37-5123</a>
13	<a href="#">50-37-5133</a>
14	<a href="#">50-37-5143</a>
15	<a href="#">50-37-5153</a>

## 2.50mm (.098") Pitch SPOX™ Wire-to-Board Connector

**42219**  
IDT  
Spring Box



### Features and Benefits

- In-line IDT termination
- Integral crimped strain relief
- Connections supplied on terminal carrier strip for application tooling

### Reference Information

Product Specification: PS-42219-0001  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 42249 and 42267 headers  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 3.0A max.  
 Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

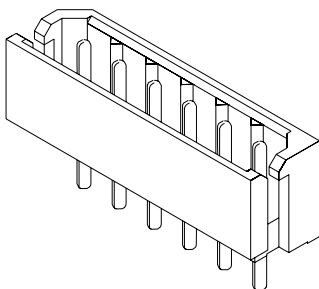
Housing: Glass-filled PBT, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: Tin  
 Wire Accommodation: 24 AWG solid or stranded with topcoat or 26 AWG stranded with topcoat

Circuits	Order No.	Lead-free
2	<a href="#">22-43-3020</a>	Yes
3	<a href="#">22-43-3030</a>	
4	<a href="#">22-43-3040</a>	
5	<a href="#">22-43-3050</a>	
6	<a href="#">22-43-3060</a>	
7	<a href="#">22-43-3070</a>	
8	<a href="#">22-43-3080</a>	

Circuits	Order No.	Lead-free
9	<a href="#">22-43-3090</a>	Yes
10	<a href="#">22-43-3100</a>	
11	<a href="#">22-43-3110</a>	
12	<a href="#">22-43-3120</a>	
13	<a href="#">22-43-3130</a>	
14	<a href="#">22-43-3140</a>	
15	<a href="#">22-43-3150</a>	

## 2.50mm (.098") Pitch SPOX™ Wire-to-Board Header

**5267-NA-X**  
Vertical  
Fully Shrouded



### Features and Benefits

- Sizes 2 to 12 circuits
- Polarized
- Friction lock

### Reference Information

Product Specification: PS-5264-001  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 5264-N  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

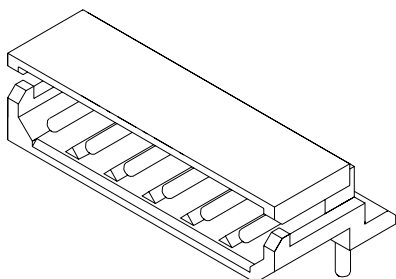
Housing: Nylon, UL 94V-0  
 Contact: Brass  
 Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	<a href="#">99-99-0986</a>	Yes
3	<a href="#">99-99-0987</a>	
4	<a href="#">99-99-0988</a>	
5	<a href="#">99-99-0989</a>	
6	<a href="#">99-99-0990</a>	
7	<a href="#">99-99-0991</a>	

Circuits	Order No.	Lead-free
8	<a href="#">99-99-0992</a>	Yes
9	<a href="#">99-99-0993</a>	
10	<a href="#">99-99-0994</a>	
11	<a href="#">99-99-0995</a>	
12	<a href="#">99-99-0996</a>	

# 2.50mm (.098") Pitch SPOX™ Wire-to-Board Header

**5268-NA**  
Right Angle  
Fully Shrouded



### Features and Benefits

- Sizes 2 to 10 circuits
- Polarized
- Friction lock

### Reference Information

Product Specification: PS-5264-001  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 5264-N  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin over Copper

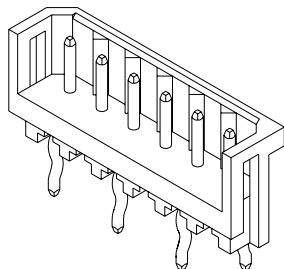
Circuits	Order No.	Lead-free
2	<a href="#">22-05-7025</a>	Yes
3	<a href="#">22-05-7035</a>	
4	<a href="#">22-05-7045</a>	
5	<a href="#">22-05-7055</a>	
6	<a href="#">22-05-7065</a>	

Circuits	Order No.	Lead-free
7	<a href="#">22-05-7075</a>	Yes
8	<a href="#">22-05-7085</a>	
9	<a href="#">22-05-7095</a>	
10	<a href="#">22-05-7105</a>	

[www.molex.com/product/spox.html](http://www.molex.com/product/spox.html)

# 2.50mm (.098") Pitch SPOX™ Wire-to-Board Header

**42249**  
Shrouded, Staggered Footprint



### Features and Benefits

- Polarized to mating connector
- Staggered footprint prevents solder bridging
- Standard kinked PC tails for retention to PC board

### Reference Information

Product Specification: PS-42219-0001  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 42219 connectors  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

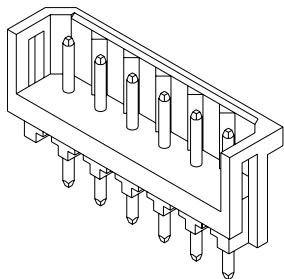
Housing: Glass-filled PBT, UL 94V-0  
Contact: Brass  
Plating: Tin over Nickel

Circuits	Order No.	Lead-free
2	<a href="#">22-43-6020</a>	Yes
3	<a href="#">22-43-6030</a>	
4	<a href="#">22-43-6040</a>	
5	<a href="#">22-43-6050</a>	
6	<a href="#">22-43-6060</a>	
7	<a href="#">22-43-6070</a>	
8	<a href="#">22-43-6080</a>	

Circuits	Order No.	Lead-free
9	<a href="#">22-43-6090</a>	Yes
10	<a href="#">22-43-6100</a>	
11	<a href="#">22-43-6110</a>	
12	<a href="#">22-43-6120</a>	
13	<a href="#">22-43-6130</a>	
14	<a href="#">22-43-6140</a>	
15	<a href="#">22-43-6150</a>	

## 2.50mm (.098") Pitch SPOX™ Wire-to-Board Header

**42267**  
Shrouded, In-Line Footprint



### Features and Benefits

- Polarized to mating connector
- Standard kinked PC tails for retention to PC board

### Reference Information

Product Specification: PS-42219-0001  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 42219 connectors  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Glass-filled PBT, UL 94V-0  
Contact: Brass  
Plating: Tin over Nickel

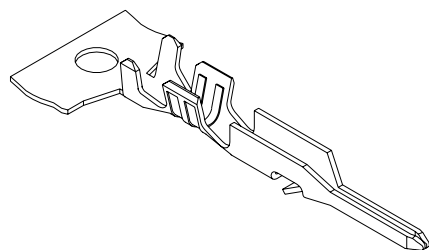
Circuits	Order No.	Lead-free
2	<a href="#">22-43-8020</a>	Yes
3	<a href="#">22-43-8030</a>	
4	<a href="#">22-43-8040</a>	
5	<a href="#">22-43-8050</a>	
6	<a href="#">22-43-8060</a>	
7	<a href="#">22-43-8070</a>	
8	<a href="#">22-43-8080</a>	

Circuits	Order No.	Lead-free
9	<a href="#">22-43-8090</a>	Yes
10	<a href="#">22-43-8100</a>	
11	<a href="#">22-43-8110</a>	
12	<a href="#">22-43-8120</a>	
13	<a href="#">22-43-8130</a>	
14	<a href="#">22-43-8140</a>	
15	<a href="#">22-43-8150</a>	

[www.molex.com/customer.html?seriesNumber=42267](http://www.molex.com/customer.html?seriesNumber=42267)

## 2.50mm (.098") Pitch SPOX™ Wire-to-Wire Male Crimp Terminal

**5241**



### Features and Benefits

- Rigid contact

### Reference Information

Mates With: 5103 terminals  
Use With: 5102-N and 51171  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

### Physical

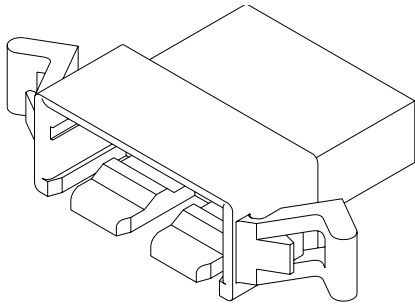
Contact: Brass  
Plating: Tin

Order No.	Packaging	Wire Gauge AWG	Insulation Diameter	Lead-free
<a href="#">08-70-0102</a>	Reel	22-28	1.90mm max.	Yes
<a href="#">08-70-0103</a>	Bag			

Recommended wire range assumes stranded wire



## 2.50mm (.098") Pitch SPOX™ Wire-to-Wire Plug Housing 5240



### Features and Benefits

- Sizes 2 to 12 circuits
- With and without mounting ears

### Reference Information

Product Specification: PS-51191-003, PS-51191-0035  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 5102-N and 51191 housings  
 Use With: 5241 terminals  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

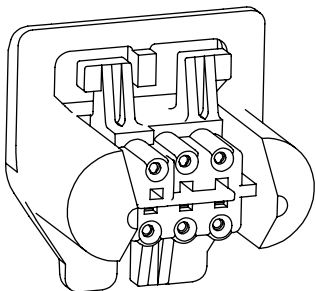
Housing: Nylon, UL 94V-0

Circuits	Order No.	
	With Ears	Without Ears
2	<a href="#">29-11-0022</a>	<a href="#">29-11-0023</a>
3	<a href="#">29-11-0032</a>	<a href="#">29-11-0033</a>
4	<a href="#">29-11-0042</a>	<a href="#">29-11-0043</a>
5	<a href="#">29-11-0052</a>	<a href="#">29-11-0053</a>
6	<a href="#">29-11-0062</a>	<a href="#">29-11-0063</a>
7	<a href="#">29-11-0072</a>	<a href="#">29-11-0073</a>

Circuits	Order No.	
	With Ears	Without Ears
8	<a href="#">29-11-0082</a>	<a href="#">29-11-0083</a>
9	<a href="#">29-11-0092</a>	<a href="#">29-11-0093</a>
10	<a href="#">29-11-0102</a>	<a href="#">29-11-0103</a>
11	<a href="#">29-11-0112</a>	<a href="#">29-11-0113</a>
12	<a href="#">29-11-0122</a>	<a href="#">29-11-0123</a>

[www.molex.com/product/spox.html](http://www.molex.com/product/spox.html)

## 2.50mm (.098") Pitch SPOX BMI™ Crimp Terminal Housing Receptacle 45579 Panel Mount



### Features and Benefits

- Panel mounting feature permits up to 3.00mm (.120") misalignment in horizontal and vertical directions permitting blind-mating of products as connectors can self-align
- First-mate/last-break circuits provide sequential engagement of contacts for design flexibility
- Robust alignment features virtually eliminate contact damage

### Reference Information

Product Specification: PS-45579-001  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 45578 and 45626  
 Use With: 5263

### Mechanical

Locking: None

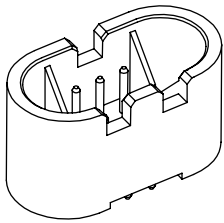
### Physical

Housing: Unfilled polyester, UL 94V-0

Order No.	Lead-free
<a href="#">45579-0001</a>	Yes

## 2.50mm (.098") Pitch SPOX BMI™ Wire-to-Wire and Wire-to-Board PCB Header

**45578**  
Vertical



Order No.	Plating	Underplating	Lead-free
<a href="#">45578-0001</a>	Tin	Nickel	Yes
<a href="#">45578-0002</a>			

### Features and Benefits

- Headers are molded in LCP high-temperature plastic, which meets lead-free processing requirements
- Robust alignment features virtually eliminate contact damage

### Reference Information

Product Specification: PS-45579-001  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 45579

### Electrical

Voltage: 250V  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.

### Mechanical

Durability: 25 cycles

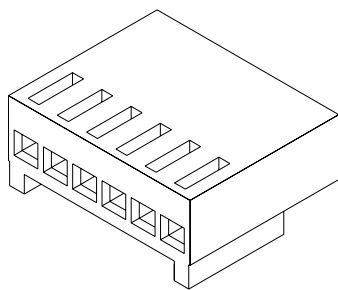
### Physical

Housing: Glass-filled LCP, UL 94V-0  
Contact: Copper Alloy

[www.molex.com/product/wb/spoxbmi.html](http://www.molex.com/product/wb/spoxbmi.html)

## 2.50mm (.098") Pitch KK® Crimp Terminal Housing

**5051-N**  
Polarized



### Features and Benefits

- Sizes 2 to 15 circuits
- Molded friction lock
- Optional locking ramp version
- Stackable end-to-end

### Reference Information

Product Specification: PS-5051-004  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 5045-NA and 5046-NA  
Use With: 5159 terminals  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

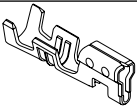
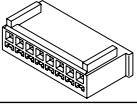
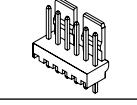
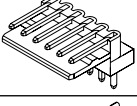
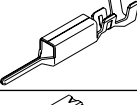
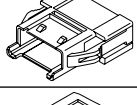
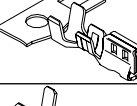
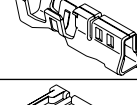
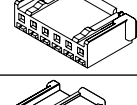
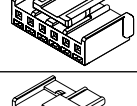
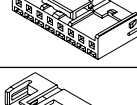
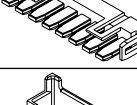
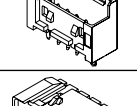
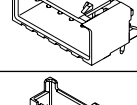
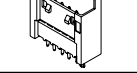
### Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">22-01-1022</a>
3	<a href="#">22-01-1032</a>
4	<a href="#">22-01-1042</a>
5	<a href="#">22-01-1052</a>
6	<a href="#">22-01-1062</a>
7	<a href="#">22-01-1072</a>
8	<a href="#">22-01-1082</a>

Circuits	Order No.
9	<a href="#">22-01-1092</a>
10	<a href="#">22-01-1102</a>
11	<a href="#">22-01-1112</a>
12	<a href="#">22-01-1122</a>
13	<a href="#">22-01-1132</a>
14	<a href="#">22-01-1142</a>
15	<a href="#">22-01-1152</a>

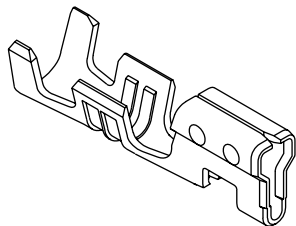
# 2.50mm (.098") Pitch

Pitch	Series		Tradename	Description
2.50mm (.098")	50802		Mini-Latch™	Female Crimp Terminal
	51191			Receptacle
	5045			Header
	5046			Header
	50837		Mini-Lock™	Male Crimp Terminal
	51198			Plug
	50351			Crimp Terminal
	50752			Female Crimp Terminal
	51102			Housing
	51103			Housing
	51163			Housing
	51164			Terminal Retainer
	53375			Header
	53426			Header
	53517			Header

**B**  
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.50mm (.098") Pitch Mini-Latch™ Wire-to-Board and Wire-to-Wire Crimp Terminal

**50802**  
Female



Order No.	Packaging	Lead-free
<a href="#">50802-9001</a>	Reel	Yes
<a href="#">50802-9101</a>	Bag	
<a href="#">50802-8000</a>	Reel	
<a href="#">50802-8100</a>	Bag	

### Features and Benefits

- Box design protects contact area
- Four points of contact for good signal integrity

### Reference Information

Packaging: Reel  
Use With: 51191  
Designed In: Millimeters

### Electrical

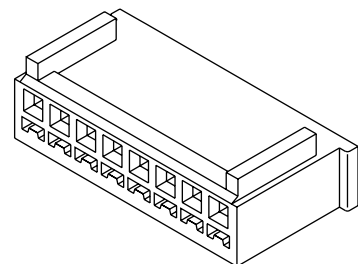
Voltage: 250V max.  
Current: 3.0A max.

### Physical

Contact: 50802-8XXX Phosphor Bronze  
50802-9XXX Brass  
Plating: Tin  
Wire Range: 22 to 28 AWG  
Insulation Diameter:  
1.15 to 1.90mm (.045 to .075") dia.  
Strip Length: 2.60 to 3.20mm (.102 to .126")

## 2.50mm (.098") Pitch Mini-Latch™ Wire-to-Board and Wire-to-Wire Receptacle

**51191**



### Features and Benefits

- Sizes 2 to 15 circuits
- Guide rails facilitate mating
- Friction lock for mating retention
- Molded pull-tabs enable easy un-mating

### Reference Information

Product Specification: Wire-to-Board—PS-51191-002  
Wire-to-Wire—PS-51191-003

Packaging: Bag  
UL File No.: E29179  
Mates With: 5045, 5046 and 5240  
Use With: 50802  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

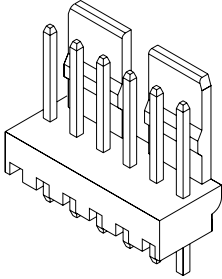
Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">51191-0200</a>
3	<a href="#">51191-0300</a>
4	<a href="#">51191-0400</a>
5	<a href="#">51191-0500</a>
6	<a href="#">51191-0600</a>
7	<a href="#">51191-0700</a>
8	<a href="#">51191-0800</a>

Circuits	Order No.
9	<a href="#">51191-0900</a>
10	<a href="#">51191-1000</a>
11	<a href="#">51191-1100</a>
12	<a href="#">51191-1200</a>
13	<a href="#">51191-1300</a>
14	<a href="#">51191-1400</a>
15	<a href="#">51191-1500</a>

## 2.50mm (.098") Pitch Wire-to-Board Header

### 5045 Vertical, Square Pin Polarizing Lock



#### Features and Benefits

- Sizes 2 to 20 circuits
- 0.64mm (.025") square wire pins

#### Reference Information

Product Specification: PS-5051-004, PS-51191-002  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 5051 and 51191  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

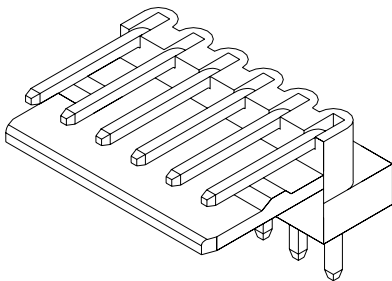
Housing: Nylon, UL 94V-0  
 Contact: Brass  
 Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	<a href="#">22-04-1021</a>	Yes
3	<a href="#">22-04-1031</a>	
4	<a href="#">22-04-1041</a>	
5	<a href="#">22-04-1051</a>	
6	<a href="#">22-04-1061</a>	
7	<a href="#">22-04-1071</a>	
8	<a href="#">22-04-1081</a>	
9	<a href="#">22-04-1091</a>	
10	<a href="#">22-04-1101</a>	
11	<a href="#">22-04-1111</a>	

Circuits	Order No.	Lead-free
12	<a href="#">22-04-1121</a>	Yes
13	<a href="#">22-04-1131</a>	
14	<a href="#">22-04-1141</a>	
15	<a href="#">22-04-1151</a>	
16	<a href="#">22-04-1161</a>	
17	<a href="#">22-04-1171</a>	
18	<a href="#">22-04-1181</a>	
19	<a href="#">22-04-1191</a>	
20	<a href="#">22-04-1201</a>	

## 2.50mm (.098") Pitch Mini-Latch™ Wire-to-Board Header

### 5046 Right Angle Friction Lock



#### Features and Benefits

- Sizes 2 to 15 circuits
- 0.64mm (.025") square wire pins

#### Reference Information

Product Specification: PS-5051-004, PS-51191-002  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 5051 and 51191  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

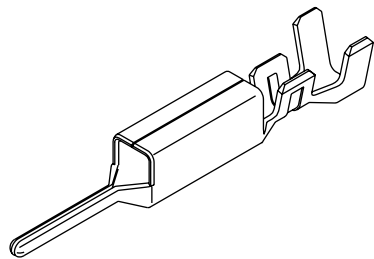
Housing: Nylon, UL 94V-0  
 Contact: Brass  
 Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	<a href="#">22-05-1022</a>	Yes
3	<a href="#">22-05-1032</a>	
4	<a href="#">22-05-1042</a>	
5	<a href="#">22-05-1052</a>	
6	<a href="#">22-05-1062</a>	
7	<a href="#">22-05-1072</a>	
8	<a href="#">22-05-1082</a>	

Circuits	Order No.	Lead-free
9	<a href="#">22-05-1092</a>	Yes
10	<a href="#">22-05-1102</a>	
11	<a href="#">22-05-1112</a>	
12	<a href="#">22-05-1122</a>	
13	<a href="#">22-05-1132</a>	
14	<a href="#">22-05-1142</a>	
15	<a href="#">22-05-1152</a>	

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Wire Crimp Terminal

**50837**  
Male



Order No.	Packaging	Lead-free
<a href="#">50837-8000</a>	Reel	Yes
<a href="#">50837-8100</a>	Bag	

### Features and Benefits

- Locking window provides secure mating retention to housing lance

### Reference Information

Product Specification: PS-51198-003  
Use With: 51198  
Designed In: Millimeters

### Electrical

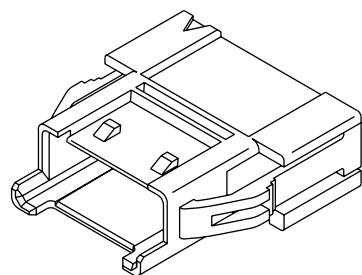
Voltage: 250V max.  
Current: 3.0A max.

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 22 to 28 AWG  
Insulation Diameter: 1.15 to 1.80mm (.045 to .071")  
Strip Length: 2.30 to 2.80mm (.091 to .110")

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Wire Plug

**51198**  
Positive Lock  
Panel Mount



### Features and Benefits

- Sizes 2 to 15 circuits
- One-piece mounting ears provide easy panel attachment and secure retention
- Guide ramp helps facilitate mating
- Housing locking tang for secure terminal retention
- Polarized for correct mating

### Reference Information

Product Specification: PS-51198-003  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 51103  
Use With: 50837  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

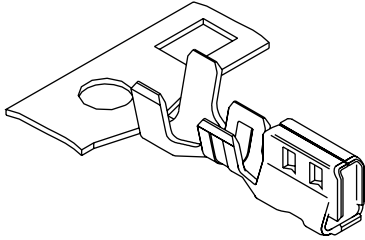
Housing: White PBT, UL 94V-0

Circuits	Order No.
2	<a href="#">51198-0200</a>
3	<a href="#">51198-0300</a>
4	<a href="#">51198-0400</a>
5	<a href="#">51198-0500</a>
6	<a href="#">51198-0600</a>
7	<a href="#">51198-0700</a>
8	<a href="#">51198-0800</a>

Circuits	Order No.
9	<a href="#">51198-0900</a>
10	<a href="#">51198-1000</a>
11	<a href="#">51198-1100</a>
12	<a href="#">51198-1200</a>
13	<a href="#">51198-1300</a>
14	<a href="#">51198-1400</a>
15	<a href="#">51198-1500</a>

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Crimp Terminal

**50351**



Order No.	Packaging	Lead-free
<a href="#">50351-8000</a>	Reel	Yes
<a href="#">50351-8100</a>	Bag	

### Features and Benefits

- Four points of contact
- Housing lance provides secure terminal retention

### Reference Information

Use With: 51102 and 51103  
Designed In: Millimeters

### Electrical

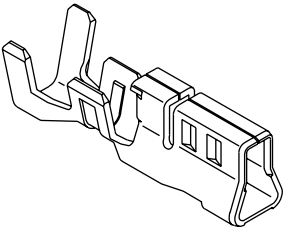
Voltage: 250V max.  
Current: 3.0A max.

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 22 to 28 AWG  
Insulation Range: 1.15 to 1.80mm dia.  
Strip Length: 2.30 to 2.80mm

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Crimp Terminal

**50752**  
Female



Order No.	Packaging	Lead-free
<a href="#">50752-8000</a>	Reel	Yes

### Features and Benefits

- Four points of contact
- Terminal design locks into housing lance

### Reference Information

Mates With: 51103 and 51163  
Designed In: Millimeters

### Electrical

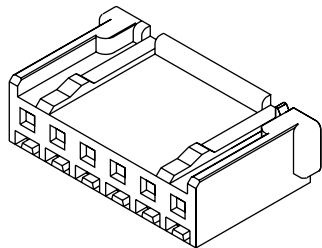
Voltage: 250V max.  
Current: 3A max.

### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 22 to 28 AWG  
Insulation Range: 1.15 to 1.80mm (.045 to .070") dia.  
Strip Length: 2.00 to 2.50mm (.079 to .098")

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Housing

### 51102 Friction Lock Type



#### Features and Benefits

- Sizes 2 to 15 circuits
- Friction lock provides secure mating retention
- Pull tabs on top and sides enable easy extraction
- Housing lance provides secure terminal retention

#### Reference Information

Product Specification: Refer to Mates With items  
 Packaging: Bag  
 Mates With: 53375 and 53426  
 Use With: 50351  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 3.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

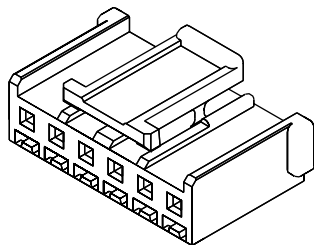
Housing: White PBTP, UL 94V-0

Circuits	Order No.
2	<a href="#">51102-0200</a>
3	<a href="#">51102-0300</a>
4	<a href="#">51102-0400</a>
5	<a href="#">51102-0500</a>
6	<a href="#">51102-0600</a>
7	<a href="#">51102-0700</a>
8	<a href="#">51102-0800</a>

Circuits	Order No.
9	<a href="#">51102-0900</a>
10	<a href="#">51102-1000</a>
11	<a href="#">51102-1100</a>
12	<a href="#">51102-1200</a>
13	<a href="#">51102-1300</a>
14	<a href="#">51102-1400</a>
15	<a href="#">51102-1500</a>

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Housing

### 51103 Positive Lock Type



#### Features and Benefits

- Sizes 2 to 15 circuits
- Anti-overstress feature protects latch
- Pull tabs on top and side enable easy extraction
- Housing lance provides secure terminal retention

#### Reference Information

Product Specification: Refer to Mates With items  
 Packaging: Bag  
 UL File No.: E29179  
 Mates With: 53375, 53426, 53517 and 53608  
 Use With: 50351 and 50752  
 Designed In: Millimeters

#### Electrical

Voltage: 250V max.  
 Current: 3.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: White PBTP, UL 94V-0

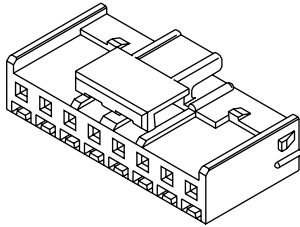
Circuits	Order No.
2	<a href="#">51103-0200</a>
3	<a href="#">51103-0300</a>
4	<a href="#">51103-0400</a>
5	<a href="#">51103-0500</a>
6	<a href="#">51103-0600</a>
7	<a href="#">51103-0700</a>
8	<a href="#">51103-0800</a>

Circuits	Order No.
9	<a href="#">51103-0900</a>
10	<a href="#">51103-1000</a>
11	<a href="#">51103-1100</a>
12	<a href="#">51103-1200</a>
13	<a href="#">51103-1300</a>
14	<a href="#">51103-1400</a>
15	<a href="#">51103-1500</a>



# 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Housing

**51163**  
Positive Lock Type



### Features and Benefits

- Sizes 2 to 15 circuits
- Positive lock latch provides secure mating retention
- Anti-overstress feature protects latch
- Housing lance provides secure terminal retention

### Reference Information

Product Specification: Refer to Mates With items  
Packaging: Bag  
Use With: 50752 and 50351 terminal and 51164 retainer  
Mates With: 53375 and 53426  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

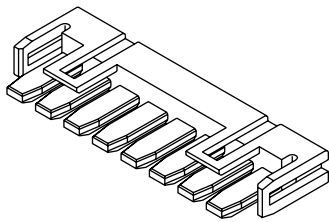
Housing: White PBTP, UL 94V-0

Circuits	Order No.
2	<a href="#">51163-0200</a>
3	<a href="#">51163-0300</a>
4	<a href="#">51163-0400</a>
5	<a href="#">51163-0500</a>
6	<a href="#">51163-0600</a>
7	<a href="#">51163-0700</a>
8	<a href="#">51163-0800</a>

Circuits	Order No.
9	<a href="#">51163-0900</a>
10	<a href="#">51163-1000</a>
11	<a href="#">51163-1100</a>
13	<a href="#">51163-1300</a>
14	<a href="#">51163-1400</a>
15	<a href="#">51163-1500</a>

# 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Terminal Retainer

**51164**



### Features and Benefits

- Sizes 2 to 14 circuits
- Provides additional terminal retention and alignment

### Reference Information

Product Specification: PS-51163-002  
Packaging: Bag  
Use With: 51163  
Designed In: Millimeters

### Physical

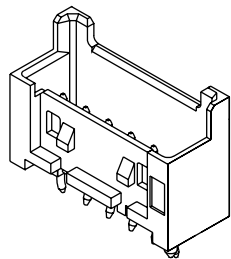
Housing: Gray PBTP, UL 94V-0

Circuits	Order No.
2	<a href="#">51164-0205</a>
3	<a href="#">51164-0305</a>
4	<a href="#">51164-0405</a>
5	<a href="#">51164-0505</a>
6	<a href="#">51164-0605</a>
7	<a href="#">51164-0705</a>

Circuits	Order No.
9	<a href="#">51164-0905</a>
10	<a href="#">51164-1005</a>
12	<a href="#">51164-1205</a>
13	<a href="#">51164-1305</a>
14	<a href="#">51164-1405</a>

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header

**53375**  
Vertical



Circuits	Order No.	Lead-free
2	<a href="#">53375-0210</a>	Yes
3	<a href="#">53375-0310</a>	
4	<a href="#">53375-0410</a>	
5	<a href="#">53375-0510</a>	
6	<a href="#">53375-0610</a>	
7	<a href="#">53375-0710</a>	
8	<a href="#">53375-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53375-0910</a>	Yes
11	<a href="#">53375-1110</a>	
12	<a href="#">53375-1210</a>	
13	<a href="#">53375-1310</a>	
14	<a href="#">53375-1410</a>	
15	<a href="#">53375-1510</a>	

### Features and Benefits

- Sizes 2 to 15 circuits
- Locking ribs and holes accept either positive or friction-locking housings
- High guide walls protect terminals and facilitate mating
- Kinked PC tails provide secure PCB retention

### Reference Information

Product Specification: PS-51103-005, PS-51103-007;  
PS-51163-002 (with 51164 retainer)

Packaging: Bag  
Mates With: 51102, 51103 and 51163  
Designed In: Millimeters

### Electrical

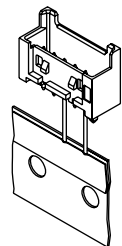
Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Glass-filled PBTP, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

## 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header

**53375**  
Vertical  
Radial Tape



Circuits	Order No.	Lead-free
2	<a href="#">53375-0290</a>	Yes
3	<a href="#">53375-0390</a>	
4	<a href="#">53375-0490</a>	
5	<a href="#">53375-0590</a>	

Circuits	Order No.	Lead-free
6	<a href="#">53375-0690</a>	Yes
7	<a href="#">53375-0790</a>	
8	<a href="#">53375-0890</a>	

### Features and Benefits

- Sizes 2 to 8 circuits
- Radial tape enables high volume automatic placement of through hole components
- Locking ribs and holes accept either positive or friction-locking housings
- High guide walls protect terminals and facilitate mating
- Kinked PC tails provide secure PCB retention

### Reference Information

Product Specification: PS-51103-005, PS-51103-007;  
PS-51163-002 (with 51164 retainer)

Packaging: Radial tape  
Mates With: 51102, 51103 and 51163  
Designed In: Millimeters

### Electrical

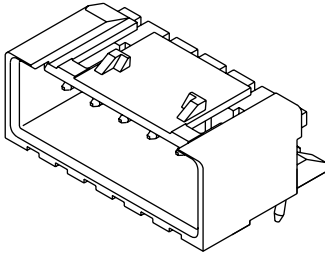
Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Glass-filled PBTP, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

# 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header

**53426**  
Right Angle



**Features and Benefits**

- Sizes 2 to 15 circuits
- Locking ribs and holes accept either positive or friction-locking housings
- Shrouded design protects terminals and facilitates mating
- Kinked PC tails provide secure PCB retention

**Reference Information**

Product Specification: PS-51102-002, PS-51103-005, PS-51103-007; PS-51163-002 (with 51164 retainer)  
Packaging: Tray  
UL File No.: E29179  
Mates With: 51102, 51103 and 51163  
Designed In: Millimeters

**Electrical**

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

**Physical**

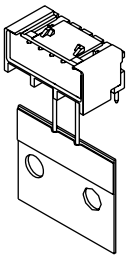
Housing: Glass-filled PBTP, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53426-0210</a>	Yes
3	<a href="#">53426-0310</a>	
4	<a href="#">53426-0410</a>	
5	<a href="#">53426-0510</a>	
6	<a href="#">53426-0610</a>	
7	<a href="#">53426-0710</a>	
8	<a href="#">53426-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53426-0910</a>	Yes
10	<a href="#">53426-1010</a>	
11	<a href="#">53426-1110</a>	
12	<a href="#">53426-1210</a>	
13	<a href="#">53426-1310</a>	
14	<a href="#">53426-1410</a>	
15	<a href="#">53426-1510</a>	

# 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header

**53426**  
Right Angle  
Radial Tape



**Features and Benefits**

- Sizes 2 to 8 circuits
- Radial tape enables high volume automatic placement of through hole components
- Locking ribs and holes accept either positive or friction-locking housings
- Shrouded design protects terminals and facilitates mating
- Kinked PC tails provide secure PCB retention

**Reference Information**

Product Specification: PS-51102-002, PS-51103-005, PS-51103-007; PS-51163-002 (with 51164 retainer)  
Packaging: Radial tape  
UL File No.: E29179  
Mates With: 51102, 51103 and 51163  
Designed In: Millimeters

**Electrical**

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

**Physical**

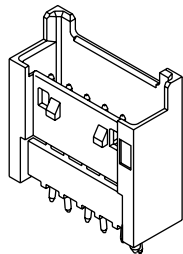
Housing: Glass-filled PBTP, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53426-0290</a>	Yes
3	<a href="#">53426-0390</a>	
4	<a href="#">53426-0490</a>	
5	<a href="#">53426-0590</a>	

Circuits	Order No.	Lead-free
6	<a href="#">53426-0690</a>	Yes
7	<a href="#">53426-0790</a>	
8	<a href="#">53426-0890</a>	

# 2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Header

## 53517 Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Potting type used for sealing components in white goods applications
- Bottom ridge protects terminal signal area during potting

### Reference Information

Product Specification: PS-51103-006, PS-51103-024  
 Packaging: Tray  
 UL File No.: E29179  
 Mates With: 51103  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 3.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

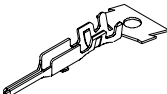
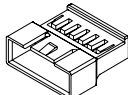

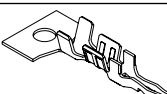
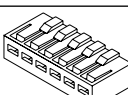
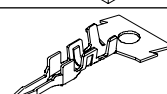

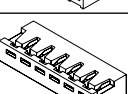
### Physical

Housing: Nylon, UL 94V-0  
 Contact: Phosphor Bronze  
 Plating: Tin

Circuits	Order No.	Lead-free
2	<a href="#">53517-0210</a>	Yes
3	<a href="#">53517-0310</a>	
4	<a href="#">53517-0410</a>	
5	<a href="#">53517-0510</a>	
6	<a href="#">53517-0610</a>	
7	<a href="#">53517-0710</a>	
8	<a href="#">53517-0810</a>	

Circuits	Order No.	Lead-free
9	<a href="#">53517-0910</a>	Yes
10	<a href="#">53517-1010</a>	
11	<a href="#">53517-1110</a>	
12	<a href="#">53517-1210</a>	
13	<a href="#">53517-1310</a>	
14	<a href="#">53517-1410</a>	
15	<a href="#">53517-1510</a>	

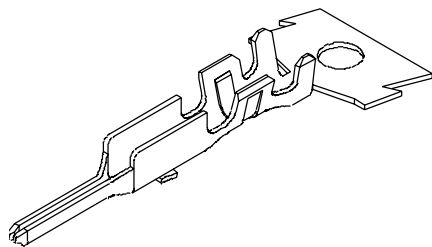
# 2.50mm (.098") Pitch

Pitch	Series		Tradename	Description
2.50mm (.098")	35053			Female Crimp Terminal
	35184			Plug
	35155			Housing
	50097		Board-In	Terminal
	51035			Housing
	35047			Terminal
	35164			Housing
	35022			Housing

**B**  
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

## 2.50mm (.098") Pitch Wire-to-Wire Terminal

**35053**



Order No.	Lead-free
<a href="#">35053-9002</a>	Yes

### Features and Benefits

- Rigid contact

### Reference Information

Packaging: Reel  
 Mates With: 5103  
 Use With: 35184  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current:

AWG	22	24	26	28
	3.0A	2.5A	2.0A	1.5A

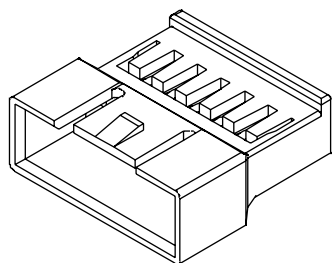
### Physical

Contact: Brass  
 Plating: Tin  
 Insulation Diameter: 1.90mm (.075") max.  
 Wire Gauge: 22 to 28 AWG

[www.molex.com/customer.html?seriesNumber=35053](http://www.molex.com/customer.html?seriesNumber=35053)

## 2.50mm (.098") Pitch Wire-to-Wire Plug

**35184**



### Features and Benefits

- Sizes 2 to 14 circuits
- Locking windows secure terminal to housing
- Accepts 22 to 28 AWG

### Reference Information

Product Specification: PS-35184  
 Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 Mates With: 35155  
 Use With: 35053  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 3.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

Housing: PA, UL 94V-0

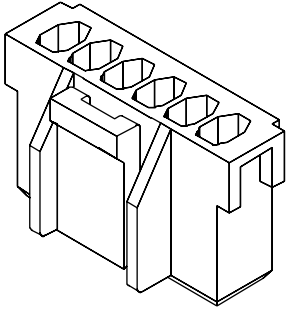
Circuits	Order No.
2	<a href="#">35184-0200</a>
3	<a href="#">35184-0300</a>
4	<a href="#">35184-0400</a>
5	<a href="#">35184-0500</a>
6	<a href="#">35184-0600</a>

Circuits	Order No.
7	<a href="#">35184-0700</a>
8	<a href="#">35184-0800</a>
9	<a href="#">35184-0900</a>
10	<a href="#">35184-1000</a>
11	<a href="#">35184-1100</a>

Circuits	Order No.
12	<a href="#">35184-1200</a>
14	<a href="#">35184-1400</a>

## 2.50mm (.098") Pitch Wire-to-Wire Housing

**35155**  
Positive Lock



### Features and Benefits

- Sizes 2 to 15 circuits
- Positive locking latch
- Polarization prevents mismatching
- Protective ribs on each side of latch

### Reference Information

Product Specification: PS-35184  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
TUV License No.: R9451371  
Mates With: 35184 plug  
Use With: 5103  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: PBT, UL 94V-0

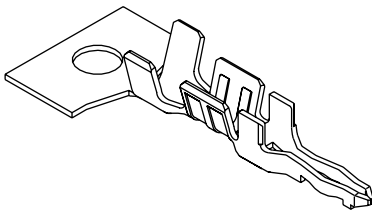
Circuits	Order No.
2	<a href="#">35155-0200</a>
3	<a href="#">35155-0300</a>
4	<a href="#">35155-0400</a>
5	<a href="#">35155-0500</a>
6	<a href="#">35155-0600</a>
7	<a href="#">35155-0700</a>
8	<a href="#">35155-0800</a>

Circuits	Order No.
9	<a href="#">35155-0901</a>
10	<a href="#">35155-1000</a>
11	<a href="#">35155-1100</a>
12	<a href="#">35155-1200</a>
13	<a href="#">35155-1300</a>
14	<a href="#">35155-1400</a>
15	<a href="#">35155-1500</a>

[www.molex.com/customer.html?seriesNumber=35155](http://www.molex.com/customer.html?seriesNumber=35155)

## 2.50mm (.098") Pitch Board-In Terminal

**50097**



### Features and Benefits

- Spring-fit style terminal provides high pressure retention to PCB
- Housing lance provides secure retention to housing and protects terminal
- PCB guide ridge helps position terminal to board

### Reference Information

Use With: 51035  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 4.0A max.

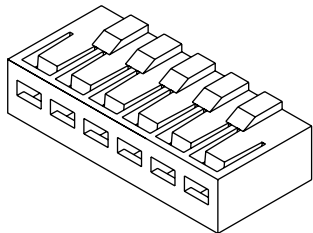
### Physical

Contact: Phosphor Bronze  
Plating: Tin  
Wire Range: 20 to 24 AWG  
0.20 to 0.50 sq. KV  
0.30 to 0.50 sq. AVS  
Insulation Range: 2.10mm dia. max.  
Strip Length: 2.50 to 3.00mm

Order No.	Packaging	Lead-free
<a href="#">50097-8000</a>	Reel	Yes
<a href="#">50097-8100</a>	Bag	

## 2.50mm (.098") Pitch Board-In Housing

**51035**



### Features and Benefits

- Sizes 2 to 18 circuits
- Housing lance provides secure terminal retention and protection

### Reference Information

Product Specification: PS-51035-001  
 Packaging: Bag  
 Use With: 50097  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 4.0A max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">51035-0200</a>
3	<a href="#">51035-0300</a>
4	<a href="#">51035-0400</a>
5	<a href="#">51035-0500</a>
6	<a href="#">51035-0600</a>
7	<a href="#">51035-0700</a>

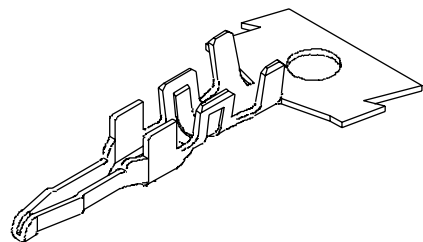
Circuits	Order No.
8	<a href="#">51035-0800</a>
9	<a href="#">51035-0900</a>
10	<a href="#">51035-1000</a>
11	<a href="#">51035-1100</a>
12	<a href="#">51035-1200</a>
13	<a href="#">51035-1300</a>

Circuits	Order No.
14	<a href="#">51035-1400</a>
15	<a href="#">51035-1500</a>
16	<a href="#">51035-1600</a>
17	<a href="#">51035-1700</a>
18	<a href="#">51035-1800</a>

[www.molex.com/product/board\\_in.html](http://www.molex.com/product/board_in.html)

## 2.50mm (.098") Pitch Board-In Terminal

**35047**



### Features and Benefits

- Locking tab secures terminal to housing

### Reference Information

Packaging: Reel  
 Use With: 35164  
 Designed In: Millimeters

### Physical

Contact: Brass  
 Plating: Tin  
 Insulation Diameter: 1.90mm (.075") max.  
 Wire Gauge: 22 to 28 AWG  
 PCB Thickness: 1.60mm (.063")

### Electrical

Voltage: 250V max.  
 Current:

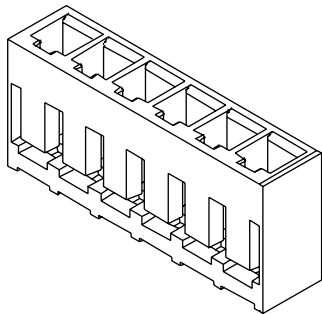
AWG	22	24	26	28
	3.0A	2.5A	1.5A	1.0A

Order No.	Lead-free
<a href="#">35047-9802</a>	Yes
<a href="#">35047-9860</a>	



## 2.50mm (.098") Pitch Board-In Housing

**35164**  
Vertical



### Features and Benefits

- Sizes 2 to 15 circuits
- Locking windows secure terminal to housing

### Reference Information

Product Specification: PS-35164  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Use With: 35047  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 5 milliohms max  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">35164-0200</a>
3	<a href="#">35164-0300</a>
4	<a href="#">35164-0400</a>
5	<a href="#">35164-0500</a>
6	<a href="#">35164-0600</a>

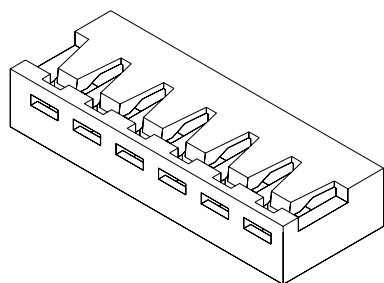
Circuits	Order No.
7	<a href="#">35164-0700</a>
8	<a href="#">35164-0800</a>
9	<a href="#">35164-0900</a>
10	<a href="#">35164-1000</a>
11	<a href="#">35164-1100</a>

Circuits	Order No.
12	<a href="#">35164-1200</a>
13	<a href="#">35164-1300</a>
14	<a href="#">35164-1400</a>
15	<a href="#">35164-1500</a>

[www.molex.com/customer.html?seriesNumber=35164](http://www.molex.com/customer.html?seriesNumber=35164)

## 2.50mm (.098") Pitch Board-In Connector Housing

**35022**  
Right Angle



### Features and Benefits

- Sizes 2 to 16 circuits
- Low profile (2.95mm)
- Terminal locking window
- Solders directly to PCB

### Reference Information

Product Specification: PS-35022-003  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Use With: 35021 terminal  
Designed In: Millimeters

### Electrical

Voltage: 125V max.  
Current: 3.0A max.  
Contact Resistance: 5 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	<a href="#">35022-0002</a>
3	<a href="#">35022-0003</a>
4	<a href="#">35022-0004</a>
5	<a href="#">35022-0005</a>
6	<a href="#">35022-0006</a>


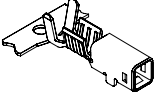
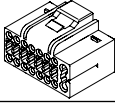
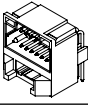


Circuits	Order No.
7	<a href="#">35022-0007</a>
8	<a href="#">35022-0008</a>
9	<a href="#">35022-0009</a>
10	<a href="#">35022-0010</a>
11	<a href="#">35022-0011</a>

Circuits	Order No.
12	<a href="#">35022-0012</a>
13	<a href="#">35022-0013</a>
14	<a href="#">35022-0014</a>
15	<a href="#">35022-0015</a>
16	<a href="#">35022-0016</a>

# 2.50/3.00mm (.098/.118") Pitch

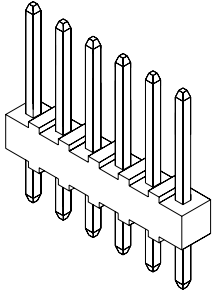
**B**

2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

Pitch	Series		Tradename	Description
2.50mm (.098")	3022-NA			Header
2.50/3.00mm (.098/.118")	50535			Female Crimp Terminal
	51128			Receptacle Housing
	53526			Header with Fuse
	91716		Appli-Mate™	Receptacle Housing
	91780			Direct Edge Card

## 2.50mm (.098") Pitch Wire-to-Board Header

**3022-NA**  
Single Row



### Features and Benefits

- Sizes 3 to 16 circuits

### Reference Information

Product Specification: PS-99020-0088  
Packaging: Bag  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 5051  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current: 3.0A max.  
Contact Resistance: 2 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC/1 min.  
Insulation Resistance: 1000 Megohms min.

### Physical

Housing: Nylon, UL 94V-0  
Contact: Brass  
Plating: Tin

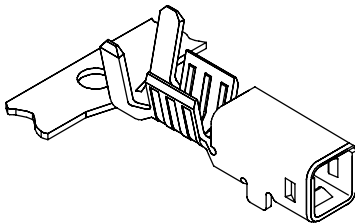
Circuits	Order No.	Lead-free
3	<a href="#">22-03-1031</a>	Yes
4	<a href="#">22-03-1041</a>	
5	<a href="#">22-03-1051</a>	
6	<a href="#">22-03-1061</a>	
7	<a href="#">22-03-1071</a>	
8	<a href="#">22-03-1081</a>	
9	<a href="#">22-03-1091</a>	

Circuits	Order No.	Lead-free
10	<a href="#">22-03-1101</a>	Yes
11	<a href="#">22-03-1111</a>	
12	<a href="#">22-03-1121</a>	
13	<a href="#">22-03-1131</a>	
14	<a href="#">22-03-1141</a>	
15	<a href="#">22-03-1151</a>	
16	<a href="#">22-03-1161</a>	

[www.molex.com/customer.html?seriesNumber=3022](http://www.molex.com/customer.html?seriesNumber=3022)

## 2.50/3.00mm (.098/.118") Pitch Wire-to-Board Crimp Terminal

**50535**  
Female



### Features and Benefits

- Two points of contact
- Housing lance provides secure terminal retention
- Box design provides two points of contact and terminal protection

### Reference Information

Packaging: Reel  
Use With: 51128  
Designed In: Millimeters

### Electrical

Voltage: 250V max.  
Current:

AWG	16	18	20
	10.0A	10.0A	4.0A

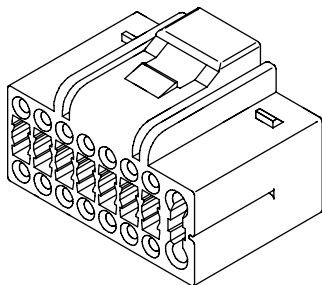
### Physical

Contact: Brass  
Plating: Tin

Order No.	Lead-free
<a href="#">50535-9001</a>	Yes

## 2.50/3.00mm (.098/ .118") Pitch Wire-to-Board Receptacle Housing

51128



Order No.	Lead-free
<a href="#">51128-1601</a>	Yes

### Features and Benefits

- Size 16 circuits
- Housing lance provides extra terminal retention
- Friction lock provides secure mating

### Reference Information

Product Specification: PS-51128-003  
 Packaging: Bag  
 Mates With: 53526  
 Use With: 50535  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 10.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

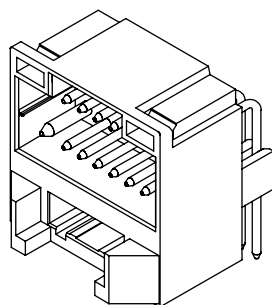
### Physical

Housing: PA, UL94

[www.molex.com/customer.html?seriesNumber=51128](http://www.molex.com/customer.html?seriesNumber=51128)

## 2.50/3.00mm (.098/ .118") Pitch Wire-to-Board Header

53526



Circuits	Order No.	Lead-free
16	<a href="#">53526-1619</a>	Yes

### Features and Benefits

- Size 16 circuits
- Connector with power pins, signal pins and fuse
- Friction lock provides passive lock to mating connector
- High pin retention

### Reference Information

Product Specification: PS-51128-003  
 Packaging: Bag  
 Mates With: 51128  
 Designed In: Millimeters

### Electrical

Voltage: 250V max.  
 Current: 10.0A max.  
 Contact Resistance: 20 milliohms max.  
 Dielectric Withstanding Voltage: 1000V AC/1 min.  
 Insulation Resistance: 1000 Megohms min.

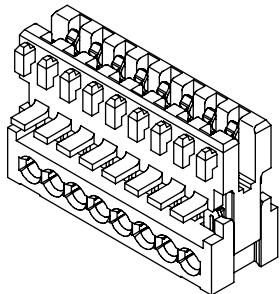
### Physical

Housing: Nylon, UL 94V-2  
 Contact: Brass  
 Plating: Tin

# 2.50mm (.098") Pitch Appli-Mate™ 2.5 RAST IDT Connector System Receptacle Housing

**91716**

**Female, Direct/Indirect**



### Features and Benefits

- Complies with RAST 2.5 standard specification
- Molded polarized features
- Two points of contact at interface
- Same connector will mate with male header and direct to PCB
- Suitable for use with 0.22-0.38mm cable
- Manual, semi-automatic and fully-automatic state-of-the-art terminating machines available

### Reference Information

Product Specification: PS-99020-0040  
Packaging: Tray  
Mates With: 90860 and 90861  
Designed In: Millimeters

### Electrical

Voltage: 60V  
Current: 2.0A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Mating Force: 4.00N (0.90 lb)  
Unmating Force: 0.50N (0.11 lb)  
Durability: 10 cycles

### Physical

Housing: PBT polyester, UL 94V-0  
Contact: Phosphor Bronze  
Plating: Contact Area—Tin

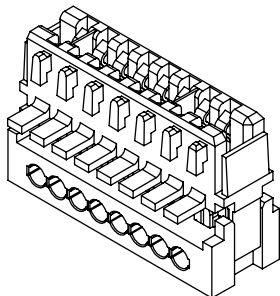
Circuits	Order No.	Lead-free
3	<a href="#">91716-0001</a>	Yes
4	<a href="#">91716-0501</a>	
5	<a href="#">91716-1001</a>	
6	<a href="#">91716-1501</a>	
7	<a href="#">91716-2001</a>	
8	<a href="#">91716-2501</a>	
9	<a href="#">91716-3001</a>	
10	<a href="#">91716-3501</a>	
11	<a href="#">91716-4001</a>	

Circuits	Order No.	Lead-free
12	<a href="#">91716-4501</a>	Yes
13	<a href="#">91716-5001</a>	
14	<a href="#">91716-5501</a>	
15	<a href="#">91716-6001</a>	
16	<a href="#">91716-6501</a>	
17	<a href="#">91716-7001</a>	
18	<a href="#">91716-7501</a>	
19	<a href="#">91716-8001</a>	
20	<a href="#">91716-8501</a>	

# 2.50mm (.098") and 5.00mm (.197") Pitch Appli-Mate™ RAST IDT Connector System Direct Edge Card

**91780**

**With Locking Latch**



### Features and Benefits

- Locks directly onto PCB, eliminating the need for a guide frame or header
- Available in 2.50 and 5.00mm pitch to allow use in high and low voltage applications
- Available in a range of circuits sizes, terminal positions, polarizing ribs and keying options.

### Reference Information

Product Specification: PS-99020-0040  
Packaging: Tray  
Designed in: Millimeters

### Electrical

Voltage: 2.50mm Pitch—32V  
5.00mm Pitch—240V  
Current: 2.0 A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1000V AC  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Wire Pull-Out Force: 50N per circuit  
Mating Force: 4N (0.90 lb)  
Unmating Force: 0.5N (0.11 lb)  
Durability: 10 cycles

### Physical

Housing: Nylon, UL 94V-0  
Contact: Copper Alloy  
Plating: Contact Area—Tin  
Wire Gauge: 22 to 24 AWG  
PCB Thickness: 1.40mm (.056")

Circuits	Order No.	Lead-free
3	<a href="#">91780-0001</a>	Yes
4	<a href="#">91780-0501</a>	
5	<a href="#">91780-1001</a>	
6	<a href="#">91780-1501</a>	
7	<a href="#">91780-2001</a>	

Circuits	Order No.	Lead-free
8	<a href="#">91780-2501</a>	Yes
9	<a href="#">91780-3001</a>	
10	<a href="#">91780-3501</a>	
11	<a href="#">91780-4001</a>	
12	<a href="#">91780-4501</a>	