

2.00 to 2.50mm (.079 to .098") PITCH

PCB and Wire Connectors

B

2.00mm (.079") Pitch Connectors

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2.50mm (.098") Pitch Connectors

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2.00mm (.079") Pitch Milli-Grid™

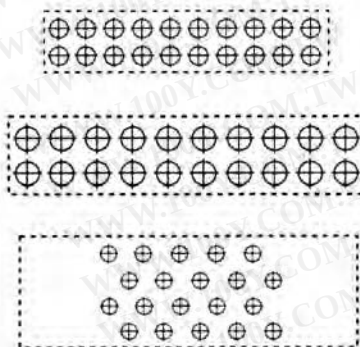
Introduction

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.

The 2.00mm Advantage



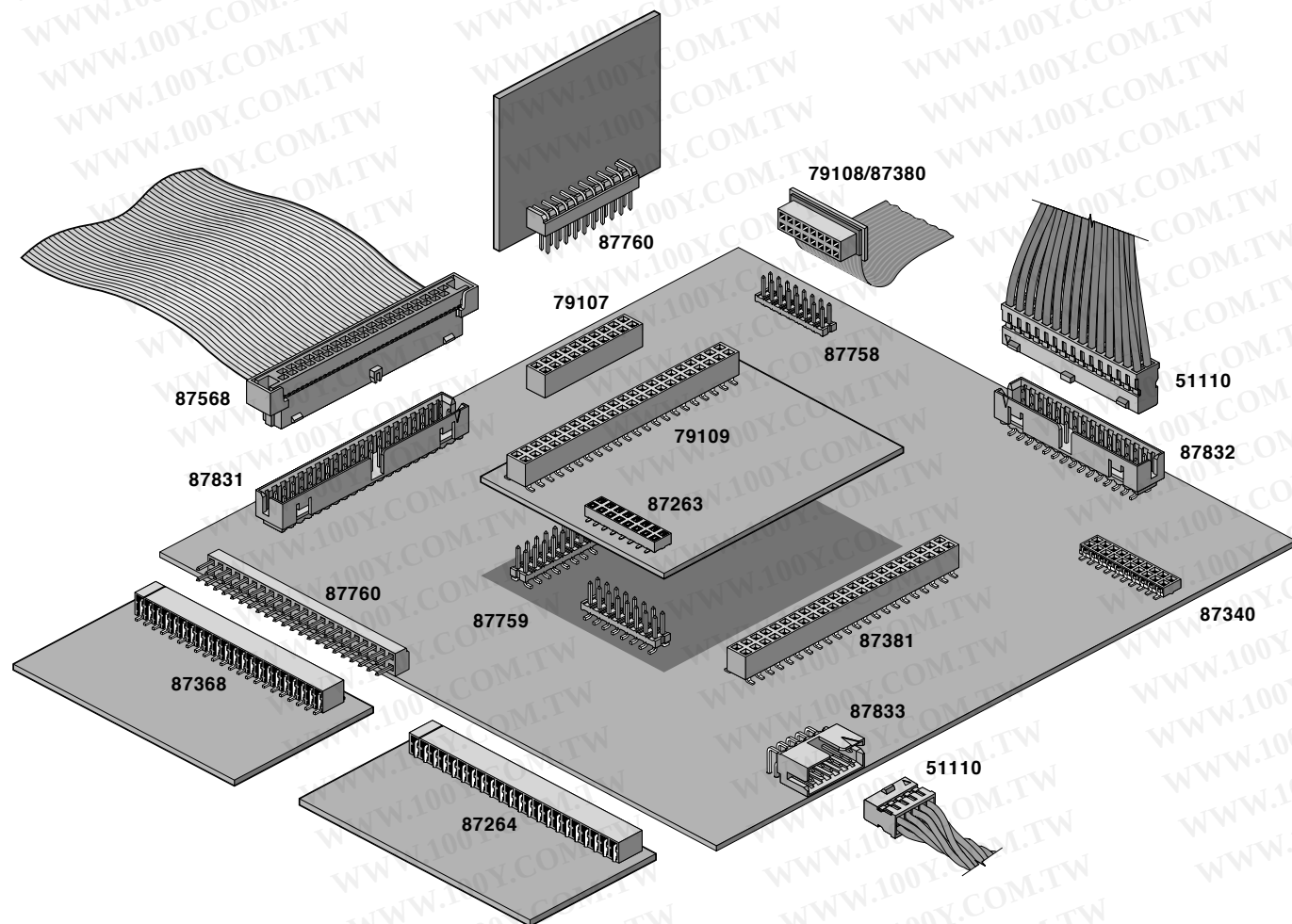
(Milli-Grid vs. 2.54 and 1.27mm Pitch) 20-Circuit PCB Usage Comparison

Milli-Grid = 80mm²

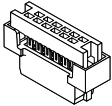
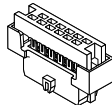
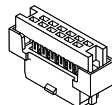
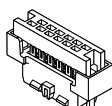
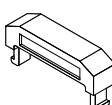
2.54mm Pitch = 125mm²

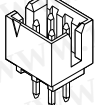
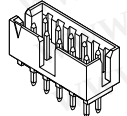
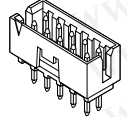
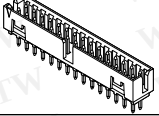
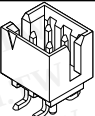
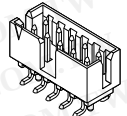
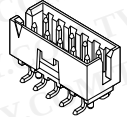
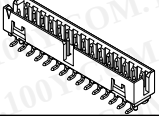
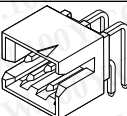
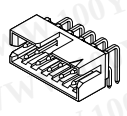
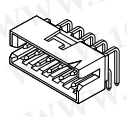
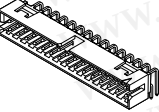
1.27mm Pitch = 185mm²

Application Overview

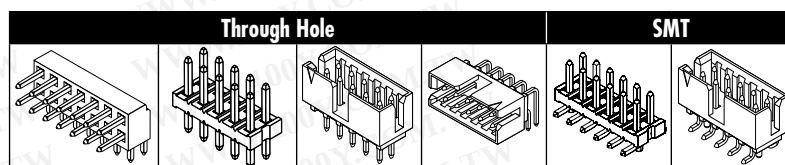


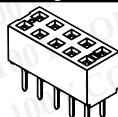
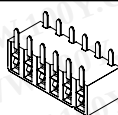
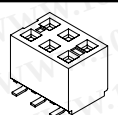
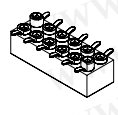
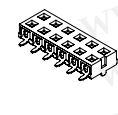
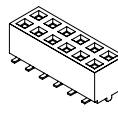
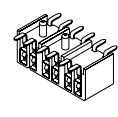
Milli-Grid™ 2.00mm (.079") Pitch Interconnection System Wire-to-Board System

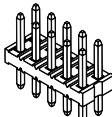
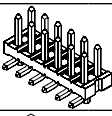
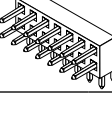
Early Entry System Terminal			
	Order No.	Packaging	Plating
	50394-8051	Reel	15µ" min. Select Gold
	50394-8100	Bag	15µ" min. Select Gold
	50394-8052	Reel	30µ" min. Select Gold
	50394-8200	Bag	30µ" min. Select Gold
Crimp Housings			
	Circuits	Order No.	Features
	4 to 32	51110-XX50	Plain
	8 to 12	51110-XX51	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**

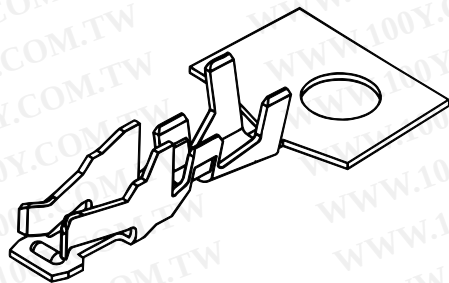


				Series/Description					
				87760 Right Angle	87758 Vertical	87831 Vertical	87833 Right Angle	87759 Vertical	87832 Vertical
	Series	Description	Contact Point	Overall Height	Circuits	Overall Mating Heights			
Through Hole									
	79107	Top Entry	1.50 (.059)	4.44 (.175)	4 to 50	6.94 (.273)	6.94 (.273)	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)	
SMT									
	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
50394-8051	26 - 30	15μ" min. selective Gold	Yes
50394-8052		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

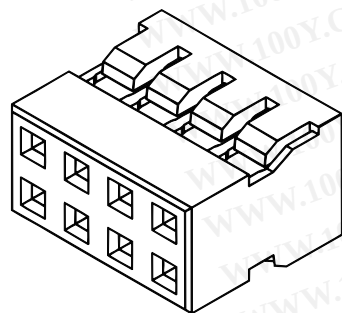
Plating: See Table

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

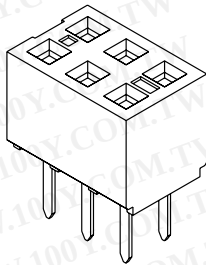
Housing: Black glass-filled polyester, UL 94V-0

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

Circuits	Order No.	
	Plain	With Polarization Keys
20	51110-2050	51110-2051
22	51110-2250	51110-2251
24	51110-2450	51110-2451
26	51110-2650	51110-2651
28	51110-2850	51110-2851
30	51110-3050	51110-3051
32	51110-3250	51110-3251

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

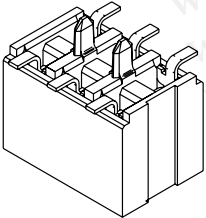
Circuits	Order No.		Lead-free
	PC Tail Length = 3.00mm (.118")		
	15μ" Select Gold	30μ" Select Gold	
4	79107-7001	79107-7051	Yes
6	79107-7002	79107-7052	
8	79107-7003	79107-7053	
10	79107-7004	79107-7054	
12	79107-7005	79107-7055	
14	79107-7006	79107-7056	
16	79107-7007	79107-7057	
18	79107-7008	79107-7058	

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	

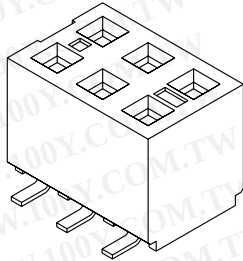
* Contact Molex

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	

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	

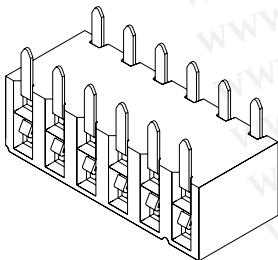
* Contact Molex

Circuits	Order No.				Lead-free
	15 μ " Gold		30 μ " 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	

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

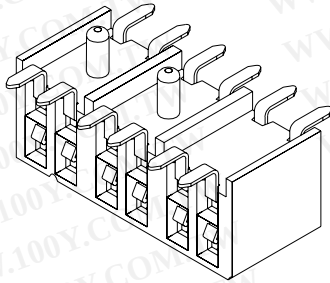
Housing: Black high-temperature nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
PCB Thickness: 1.60 ± 0.10mm

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.

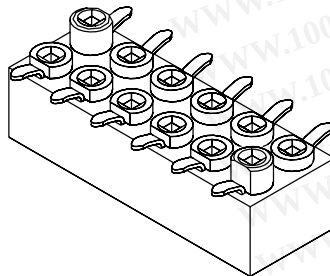
Physical

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	87368-1024	87368-1025	Yes
12	87368-1224	87368-1225	
14	87368-1424	87368-1425	
16	87368-1624	87368-1625	
18	87368-1824	87368-1825	
20	87368-2024	87368-2025	
22	87368-2224	87368-2225	
24	87368-2424	87368-2425	
26	87368-2624	87368-2625	
28	87368-2824	87368-2825	
30	87368-3024	87368-3025	

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

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

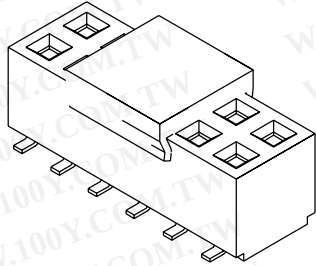
Housing: Black high-temperature nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table

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

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

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

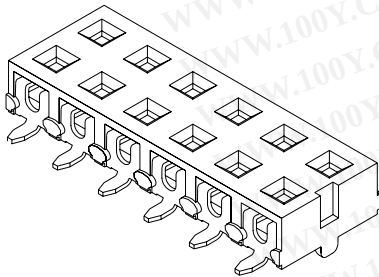
Housing: Black high-temp thermoplastic
Contact: Copper Alloy
Plating: See Table

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

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

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.

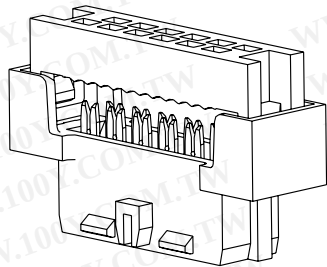
Physical

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

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

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.

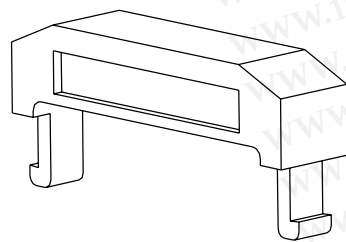
Physical

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 μ m (15 μ in) Gold	0.76 μ m (30 μ in) Gold					
10	87568-10X3	87568-10X4	No	Yes	Yes	No	Yes
12	87568-12X3	87568-12X4					
14	87568-14X3	87568-14X4					
16	87568-16X3	87568-16X4	Yes		No	Yes	
20	87568-20X3	87568-20X4					
22	87568-22X3	87568-22X4					
24	87568-24X3	87568-24X4					
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

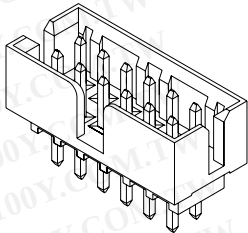
Housing: Black thermoplastic, UL 94V-0

Circuits	Order No.
10	87569-1010
12	87569-1012
14	87569-1014
16	87569-1016
20	87569-1020
22	87569-1022
24	87569-1024

Circuits	Order No.
26	87569-1026
30	87569-1030
34	87569-1034
40	87569-1040
44	87569-1044
50	87569-1050

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

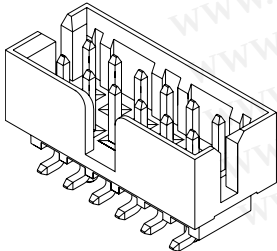
Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table

Circuits	Order No.		Lead-free
	15μ" Select Gold	30μ" Select Gold	
4	87831-0420	87831-0421	Yes
6	87831-0620	87831-0621	
8	87831-0820	87831-0821	
10	87831-1020	87831-1021	
12	87831-1220	87831-1221	
14	87831-1420	87831-1421	
16	87831-1620	87831-1621	
18	87831-1820	87831-1821	
20	87831-2020	87831-2021	
22	87831-2220	87831-2221	
24	87831-2420	87831-2421	
26	87831-2620	87831-2621	

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

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-87832-027
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

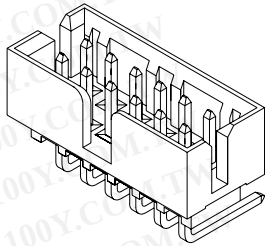
Housing: Black 4/6 nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table

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

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

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.

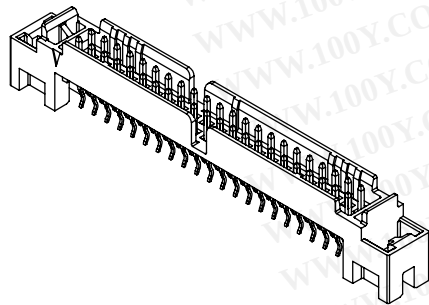
Physical

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

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

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

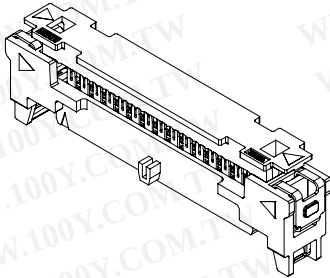
Housing: See table
Contact: Phosphor Bronze
Plating: Contact Area—0.38μm (15μ") min. Gold
Solder Tail Area—Tin
Underplating: Nickel
PCB Thickness: 1.60mm +/-0.10mm

Circuits	Order No.	Orientation	PCB Mounting	Packaging	Housing	Lead-free
30	87982-3030	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	Yes
40	87982-3040	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
40	87984-3040	Right Angle	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
44	87981-3044	Right Angle	Straddle Mount	Tube	Black glass-filled LCP, UL 94V-0	
44	87982-3044	Vertical	Through Hole	Tube	Black glass-filled nylon, UL 94V-0	
44	87983-3044	Vertical	SMT	Tape and Reel	Black glass-filled nylon, UL 94V-0	
50	87981-3050	Right Angle	Straddle Mount	Tube	Black glass-filled LCP, UL 94V-0	
50	87982-3050	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	87985-3030	Yes
40	87985-3040	
44	87985-3044	
50	87985-3050	

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

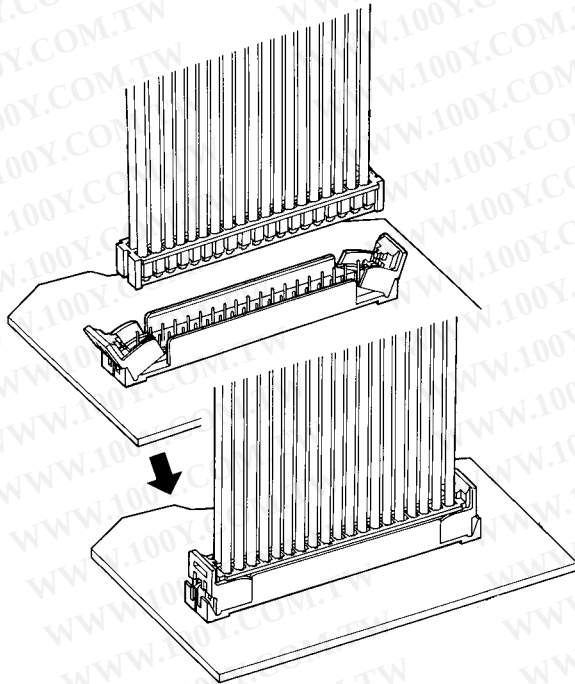
Mi II™ (2.00 x 2.50mm) Connection System

Features

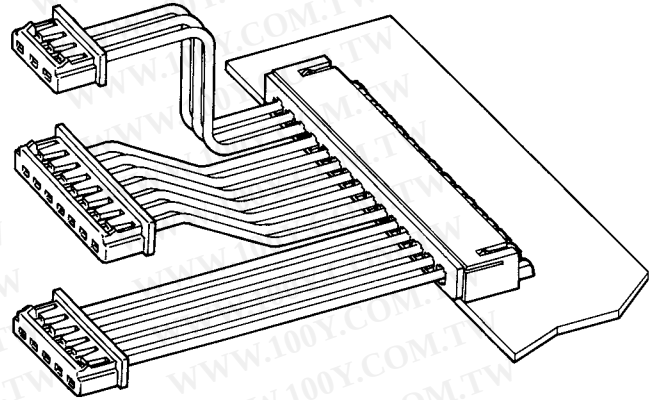
- 2.00mm pitch low profile wire-to-board connector
- Single and dual row, crimp and IDT
- Low insertion force design, locking features and high reliability
- Kinked header pins
- Clip allows back-to-back stacking of single row IDT assemblies
- Application tooling for use in assembling harnesses
- Board-in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

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

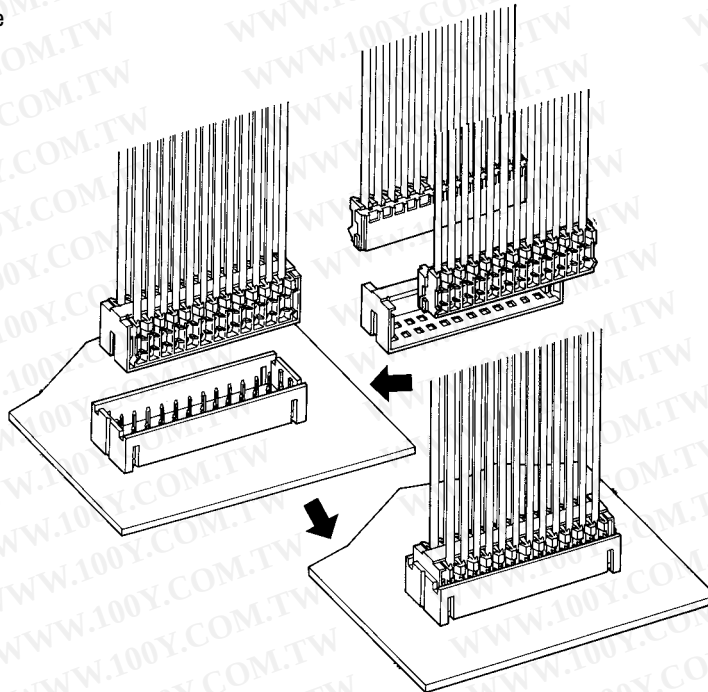
B



Eject Lever Type



Multi Harnesses



With Clip Connection Type

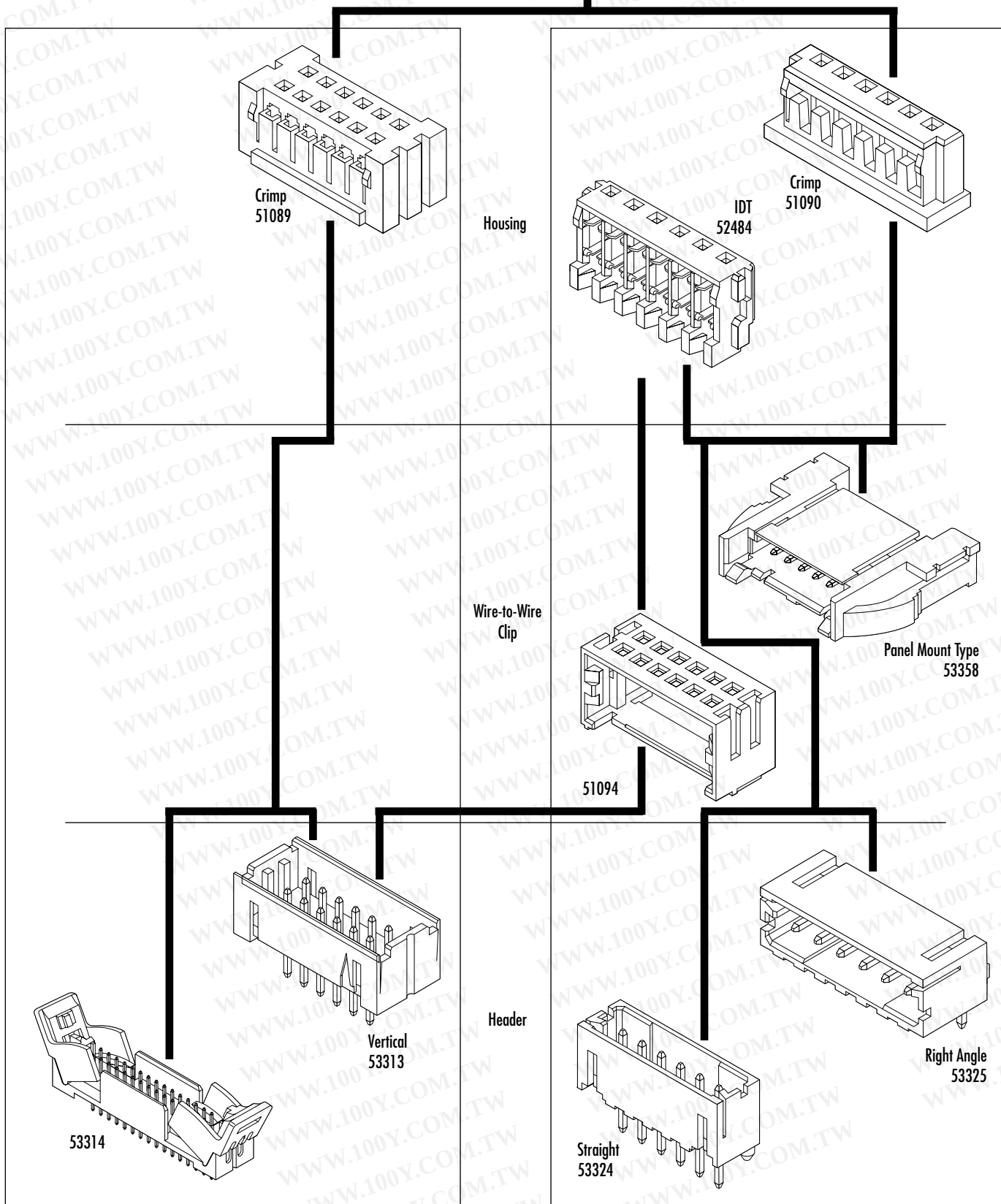
Mi II™ System Chart

Dual Row

50212
Terminal

Single Row

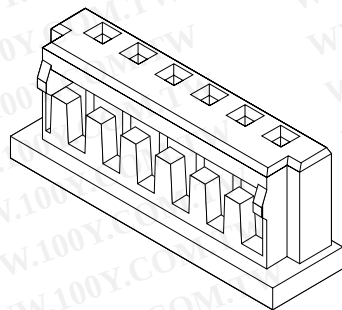
B



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



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

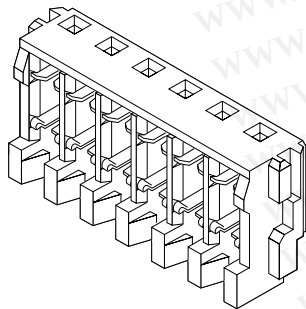
Housing: PBT, UL 94V-0

Circuits	Order No.
2	51090-0200
3	51090-0300
4	51090-0400
5	51090-0500
6	51090-0600
7	51090-0700
8	51090-0800

Circuits	Order No.
9	51090-0900
10	51090-1000
11	51090-1100
12	51090-1200
13	51090-1300
14	51090-1400
15	51090-1500

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

52484
Single Row
IDT



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

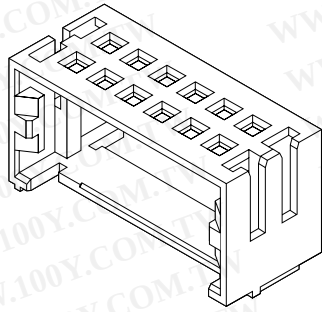
Insulation Range: 0.85 to 1.05mm dia.

Circuits	Order No.	Lead-free
2	52484-0210	Yes
3	52484-0310	
4	52484-0410	
5	52484-0510	
6	52484-0610	
7	52484-0710	
8	52484-0810	

Circuits	Order No.	Lead-free
9	52484-0910	Yes
10	52484-1010	
11	52484-1110	
12	52484-1210	
13	52484-1310	
14	52484-1410	
15	52484-1510	

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

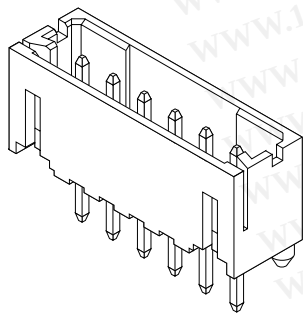
Housing: Gray PBT, UL 94V-0

Circuits	Order No.
6	51094-0605
8	51094-0805
10	51094-1005
12	51094-1205
14	51094-1405
16	51094-1605
18	51094-1805

Circuits	Order No.
20	51094-2005
22	51094-2205
24	51094-2405
26	51094-2605
28	51094-2805
30	51094-3005

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

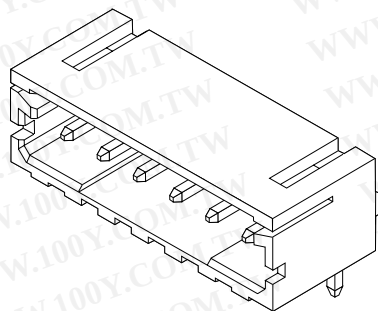
Plating: Tin

Circuits	Order No.	Lead-free
2	53324-0260	Yes
3	53324-0360	
4	53324-0460	
5	53324-0560	
6	53324-0660	
7	53324-0760	
8	53324-0860	

Circuits	Order No.	Lead-free
9	53324-0960	Yes
10	53324-1060	
11	53324-1160	
12	53324-1260	
13	53324-1360	
14	53324-1460	
15	53324-1560	

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

53325
Single Row
Right Angle



Circuits	Order No.	Lead-free
2	53325-0260	Yes
3	53325-0360	
4	53325-0460	
5	53325-0560	
6	53325-0660	
7	53325-0760	
8	53325-0860	

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

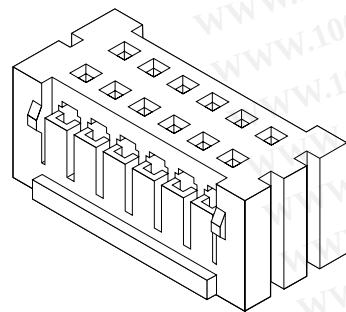
Contact: Brass

Plating: Tin

Circuits	Order No.	Lead-free
9	53325-0960	Yes
10	53325-1060	
11	53325-1160	
12	53325-1260	
13	53325-1360	
14	53325-1460	
15	53325-1560	

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

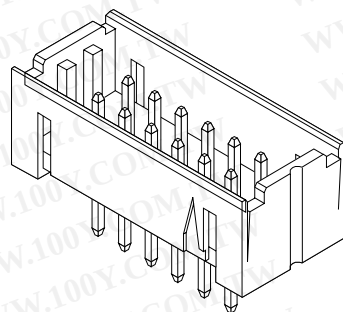
Housing: Gray glass-filled Polyester, UL 94V-0

Circuits	Order No.	Friction Lock
10	51089-1005	Yes
12	51089-1205	
14	51089-1405	
16	51089-1605	
18	51089-1805	
20	51089-2005	
22	51089-2205	
24	51089-2405	

Circuits	Order No.	Friction Lock
26	51089-2605	Yes
28	51089-2805	
30	51089-3005	No
34	51089-3405	
40	51089-4005	
50	51089-5005	
60	51089-6005	

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

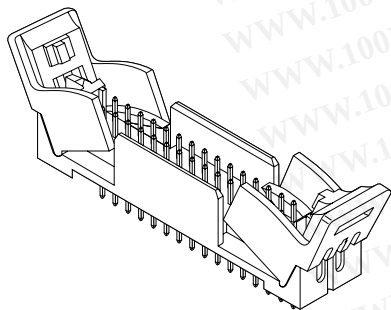
Plating: Tin

Circuits	Order No.	Lead-free
6	53313-0665	Yes
8	53313-0865	
10	53313-1065	
12	53313-1265	
14	53313-1465	
16	53313-1665	
18	53313-1865	
20	53313-2065	
22	53313-2265	

Circuits	Order No.	Lead-free
24	53313-2465	Yes
26	53313-2665	
28	53313-2865	
30	53313-3065	
34	53313-3465	
40	53313-4065	
50	53313-5065	
60	53313-6065	

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

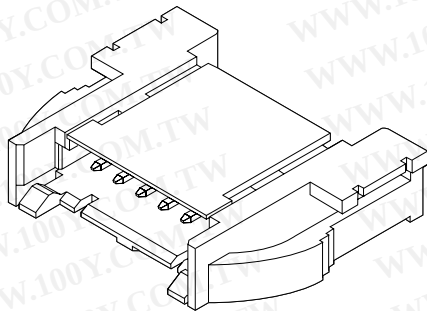
Contact: Brass

Plating: Tin

Circuits	Order No.	Lead-free
30	53314-3065	Yes
34	53314-3465	
40	53314-4065	
50	53314-5065	
60	53314-6065	

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

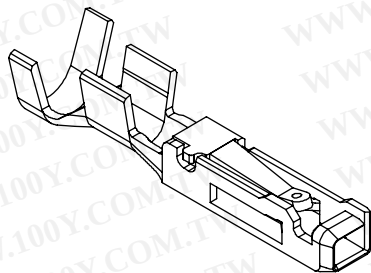
Housing: White PBT, UL 94V-0

Contact: Brass

Plating: Tin

Circuits	Order No.	Lead-free
2	53358-0240	Yes
3	53358-0340	
4	53358-0440	
5	53358-0540	
6	53358-0640	
7	53358-0740	
8	53358-0840	

Circuits	Order No.	Lead-free
9	53358-0940	Yes
10	53358-1040	
11	53358-1140	
12	53358-1240	
13	53358-1340	
14	53358-1440	
15	53358-1540	

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

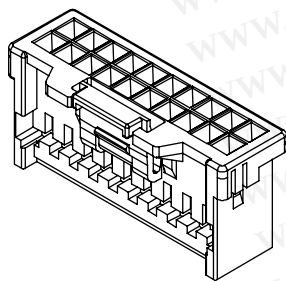
Plating: Tin

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	501647-1000	Reel	Yes
22-26	501647-1100	Bag	
26-28	501648-1000	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.

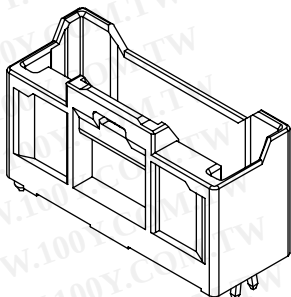
Insulation Resistance: 1000 Megohms min.

Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.	Lead-free
10	501646-1000	Yes
12	501646-1200	
14	501646-1400	
16	501646-1600	
18	501646-1800	
20	501646-2000	
22	501646-2200	
24	501646-2400	

Circuits	Order No.	Lead-free
26	501646-2600	Yes
28	501646-2800	
30	501646-3000	
32	501646-3200	
34	501646-3400	
36	501646-3600	
38	501646-3800	
40	501646-4000	

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

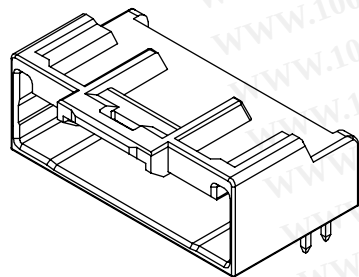
Housing: Glass-filled Nylon, UL 94V-0

Contact: Brass

Plating: Tin over Copper

Circuits	Order No.	Lead-free
10	501645-1020	Yes
12	501645-1220	
14	501645-1420	
16	501645-1620	
18	501645-1820	
20	501645-2020	
22	501645-2220	
24	501645-2420	

Circuits	Order No.	Lead-free
26	501645-2620	Yes
28	501645-2820	
30	501645-3020	
32	501645-3220	
34	501645-3420	
36	501645-3620	
38	501645-3820	
40	501645-4020	

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	501876-1040	Yes
12	501876-1240	
14	501876-1440	
16	501876-1640	
18	501876-1840	
20	501876-2040	
22	501876-2240	
24	501876-2440	

Circuits	Order No.	Lead-free
26	501876-2640	Yes
28	501876-2840	
30	501876-3040	
32	501876-3240	
34	501876-3440	
36	501876-3640	
38	501876-3840	
40	501876-4040	

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

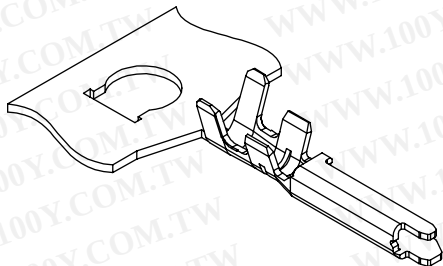
Contact: Copper Alloy

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
502438-0000	Reel	Yes
502438-0100	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.

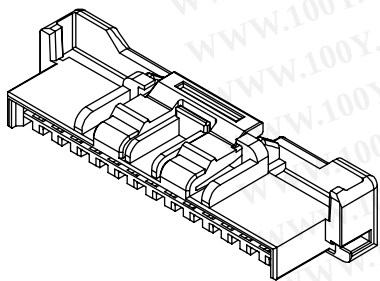
Contact Resistance: 20 milliohms max.

Dielectric Withstanding Voltage: 800V AC/1 min.

Insulation Resistance: 1000 Megohms min.

Physical

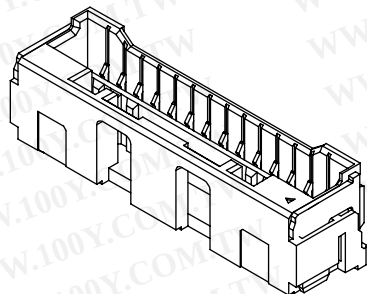
Housing: White PBT, UL 94V-0



Circuits	Order No.	Lead-free
4	502439-0400	Yes
5	502439-0500	
6	502439-0600	
8	502439-0800	
12	502439-1200	
13	502439-1300	
14	502439-1400	

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

502443
Single Row
Vertical



Circuits	Order No.	Lead-free
4	502443-0470	Yes
5	502443-0570	
6	502443-0670	
8	502443-0870	
12	502443-1270	
13	502443-1370	
14	502443-1470	

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

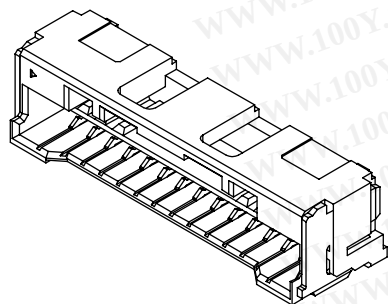
Voltage: 250V max.
Current: 3.0A max.
Contact Resistance: 20 milliohms max.
Dielectric Withstanding Voltage: 800V AC/1 min.
Insulation Resistance: 1000 megohms min.

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	502494-0470	Yes
6	502494-0670	
8	502494-0870	
12	502494-1270	
13	502494-1370	
14	502494-1470	

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

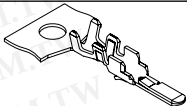
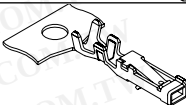
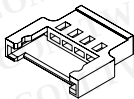
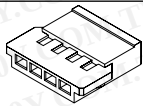
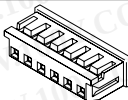
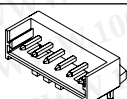
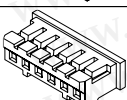
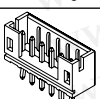
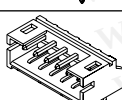
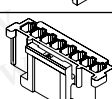
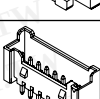
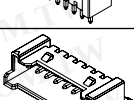
Electrical

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

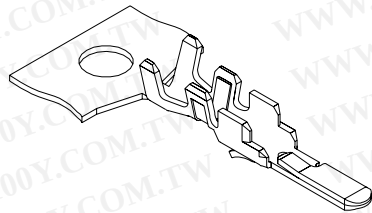
2.00mm (.079") Pitch

Pitch	Series		Tradename	Description
2.00mm (.079")	50012			Male Crimp Terminal
	50013			Female Crimp Terminal
	51006			Plug
	51005			Receptacle
	50212		Micro-Latch™	Female Crimp Terminal
	51065			Housing
	53253			Header
	53254			Header
	87369			Housing
	89400			Header
	89401			Header
	35507		Sherlock™	Housing
	35362			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
50012-8000	Reel	Yes
50012-8100	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

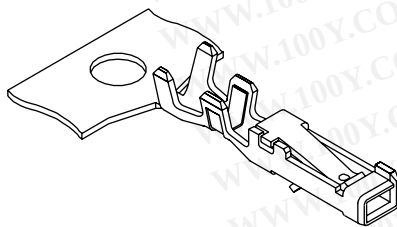
Insulation Diameter: 1.15mm dia. max.

Strip Length: 1.70 to 2.30mm

www.molex.com/customer.html?seriesNumber=50012

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

50013
Female



Order No.	Packaging	Lead-free
50013-8000	Reel	Yes
50013-8100	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

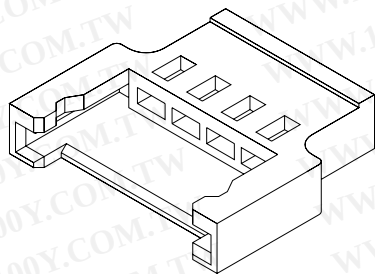
Wire Range: 24 to 28 AWG

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	51006-0200
3	51006-0300
4	51006-0400
5	51006-0500

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.

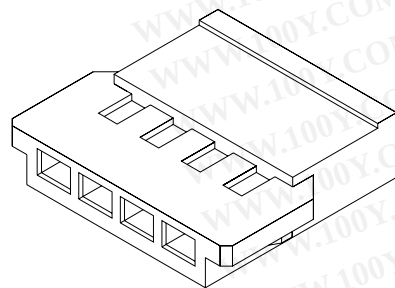
Physical

Housing: PBTP, UL 94V-0

www.molex.com/customer.html?seriesNumber=51006

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

51005



Circuits	Order No.
2	51005-0200
3	51005-0300
4	51005-0400
5	51005-0500

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.

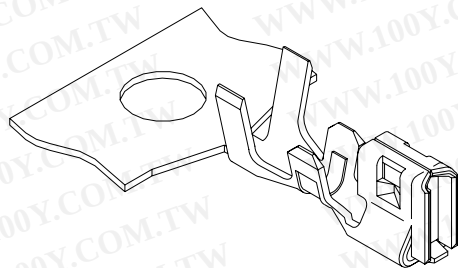
Physical

Housing: PBTP, UL 94V-0

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

B

50212



Order No.	Packaging	Lead-free
50212-8000	Reel	Yes
50212-8100	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

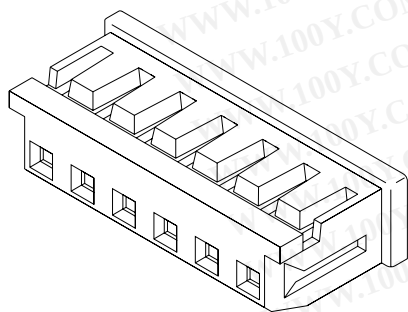
Insulation Range: 1.40mm dia. max.

Strip Length: 1.3 to 1.8mm

www.molex.com/customer.html?seriesNumber=50212

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

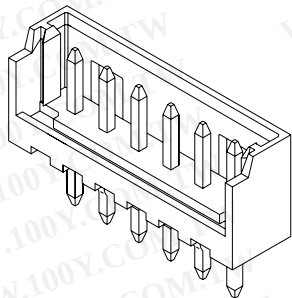
Housing: PBT, UL 94V-0

Circuits	Order No.
2	51065-0200
3	51065-0300
4	51065-0400
5	51065-0500
6	51065-0600

Circuits	Order No.
7	51065-0700
8	51065-0800
9	51065-0900
10	51065-1000
11	51065-1100

Circuits	Order No.
12	51065-1200
13	51065-1300
14	51065-1400
15	51065-1500

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

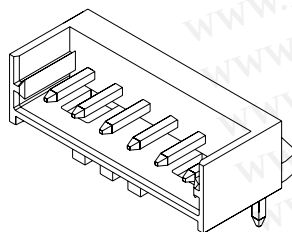
Plating: Tin

Circuits	Order No.	Lead-free
2	53253-0270	Yes
3	53253-0370	
4	53253-0470	
5	53253-0570	
6	53253-0670	
7	53253-0770	
8	53253-0870	

Circuits	Order No.	Lead-free
9	53253-0970	Yes
10	53253-1070	
11	53253-1170	
12	53253-1270	
13	53253-1370	
14	53253-1470	
15	53253-1570	

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

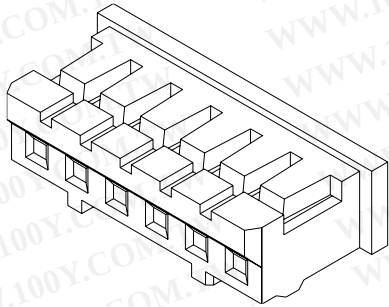
Circuits	Order No.	Lead-free
2	53254-0270	Yes
3	53254-0370	
4	53254-0470	
5	53254-0570	
6	53254-0670	
7	53254-0770	
8	53254-0870	

Circuits	Order No.	Lead-free
9	53254-0970	Yes
10	53254-1070	
11	53254-1170	
12	53254-1270	
13	53254-1370	
14	53254-1470	
15	53254-1570	

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

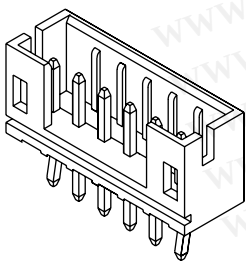
Circuits	Order No.
2	87369-0200
3	87369-0300
4	87369-0400
5	87369-0500
6	87369-0600
7	87369-0700
8	87369-0800
9	87369-0900

Circuits	Order No.
10	87369-1000
11	87369-1100
12	87369-1200
13	87369-1300
14	87369-1400
15	87369-1500
16	87369-1600

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

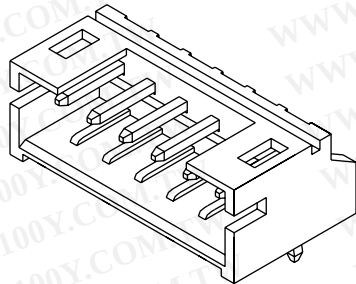
Housing: Nylon, UL 94V-0
Contact: Brass
Plating: Tin

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

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

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

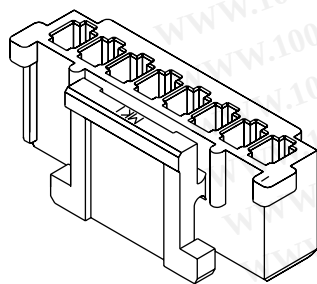
Circuits	Order No.	Lead-free
2	89401-0210	Yes
3	89401-0310	
4	89401-0410	
5	89401-0510	
6	89401-0610	
7	89401-0710	
8	89401-0810	
9	89401-0910	

Circuits	Order No.	Lead-free
10	89401-1010	Yes
11	89401-1110	
12	89401-1210	
13	89401-1310	
14	89401-1410	
15	89401-1510	
16	89401-1610	

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

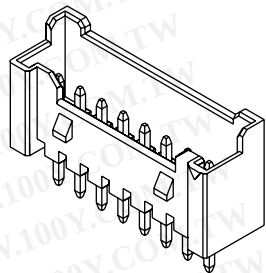
Circuits	Order No.
2	35507-0200
3	35507-0300
4	35507-0400
5	35507-0500
6	35507-0600
7	35507-0700
8	35507-0800

Circuits	Order No.
9	35507-0900
10	35507-1000
11	35507-1100
12	35507-1200
13	35507-1300
14	35507-1400
15	35507-1500

Circuits	Order No.
16	35507-1600
17	35507-1700
18	35507-1800
19	35507-1900
20	35507-2000

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

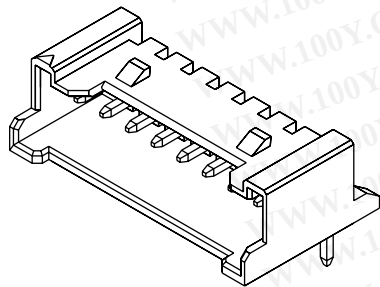
Circuits	Order No.	Lead-free
2	35362-0250	Yes
3	35362-0350	
4	35362-0450	
5	35362-0550	
6	35362-0650	

Circuits	Order No.	Lead-free
7	35362-0750	Yes
8	35362-0850	
9	35362-0950	
11	35362-1150	
12	35362-1250	

Circuits	Order No.	Lead-free
13	35362-1350	Yes
14	35362-1450	
15	35362-1550	

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

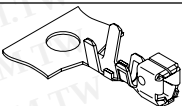
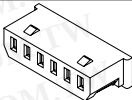
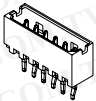
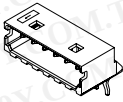
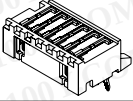
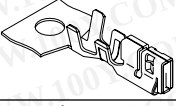
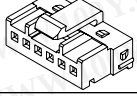
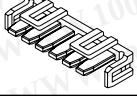
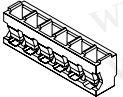
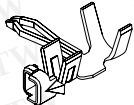
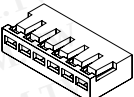
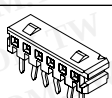
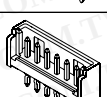
Housing: PA, UL 94V-0
Contact: Brass
Plating: Tin

Circuits	Order No.	Lead-free
2	35363-0260	Yes
3	35363-0360	
4	35363-0460	
5	35363-0560	
6	35363-0660	
7	35363-0760	

Circuits	Order No.	Lead-free
8	35363-0860	Yes
9	35363-0960	
10	35363-1060	
11	35363-1160	
12	35363-1260	
13	35363-1360	

Circuits	Order No.	Lead-free
14	35363-1460	Yes
15	35363-1560	
17	35363-1760	
20	35363-2060	

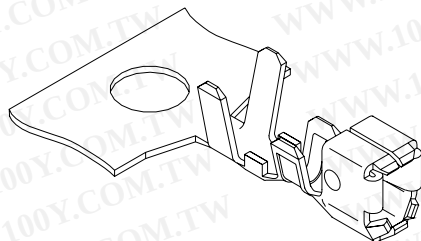
2.00mm (.079") Pitch

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
50011-8000	Reel	Yes
50011-8100	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

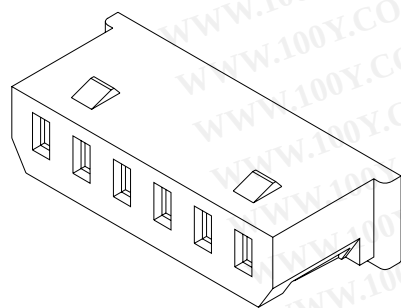
Plating: Tin

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.

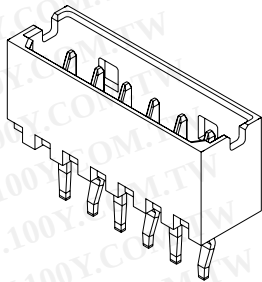
Physical

Housing: PBT, UL 94V-0

Circuits	Order No.
2	51004-0200
3	51004-0300
4	51004-0400
5	51004-0500
6	51004-0600
7	51004-0700
8	51004-0800

Circuits	Order No.
9	51004-0900
10	51004-1000
11	51004-1100
12	51004-1200
13	51004-1300
14	51004-1400
15	51004-1500

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

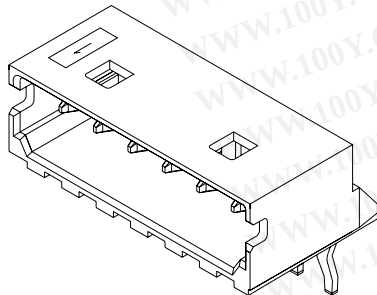
Contact: Phosphor Bronze

Plating: Tin

Circuits	Order No.	Lead-free
2	53014-0210	Yes
3	53014-0310	
4	53014-0410	
5	53014-0510	
6	53014-0610	
7	53014-0710	
8	53014-0810	

Circuits	Order No.	Lead-free
9	53014-0910	Yes
10	53014-1010	
11	53014-1110	
12	53014-1210	
13	53014-1310	
14	53014-1410	
15	53014-1510	

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

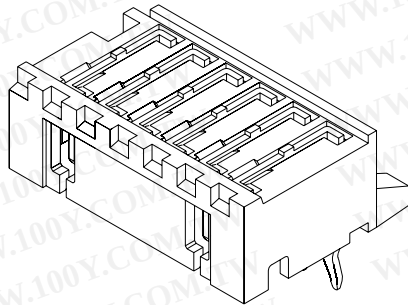
Plating: Tin

Circuits	Order No.	Lead-free
2	53015-0210	Yes
3	53015-0310	
4	53015-0410	
5	53015-0510	
6	53015-0610	
7	53015-0710	
8	53015-0810	

Circuits	Order No.	Lead-free
9	53015-0910	Yes
10	53015-1010	
11	53015-1110	
12	53015-1210	
13	53015-1310	
14	53015-1410	
15	53015-1510	

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

53025
Bottom Entry



Circuits	Order No.	Lead-free
2	53025-0210	Yes
3	53025-0310	
4	53025-0410	
5	53025-0510	
6	53025-0610	
7	53025-0710	
8	53025-0810	
9	53025-0910	
10	53025-1010	

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

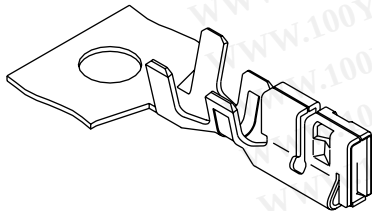
Contact: Phosphor Bronze

Plating: Tin

www.molex.com/product/microblade.html

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

59370
Female



Order No.	Packaging	Lead-free
59370-8000	Reel	Yes
59370-8100	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

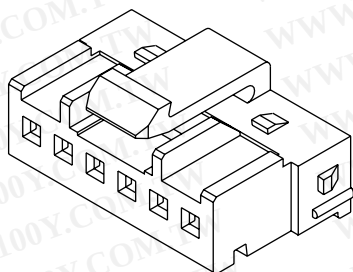
Wire Range: 22 to 28 AWG

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

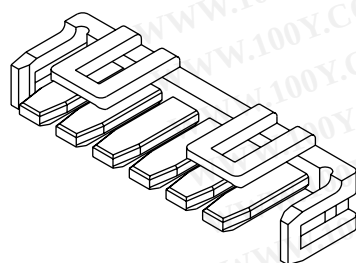
Circuits	Order No.
2	51216-0200
4	51216-0400
5	51216-0500
6	51216-0600
7	51216-0700
8	51216-0800
9	51216-0900

Circuits	Order No.
10	51216-1000
11	51216-1100
12	51216-1200
13	51216-1300
14	51216-1400
15	51216-1500

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

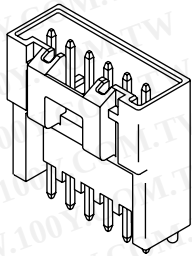
Physical

Housing: Gray PBTP, UL 94V-0

Circuits	Order No.
2	51217-0205
4	51217-0405
5	51217-0505
6	51217-0605
7	51217-0705
8	51217-0805
9	51217-0905

Circuits	Order No.
10	51217-1005
11	51217-1105
12	51217-1205
13	51217-1305
14	51217-1405
15	51217-1505

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

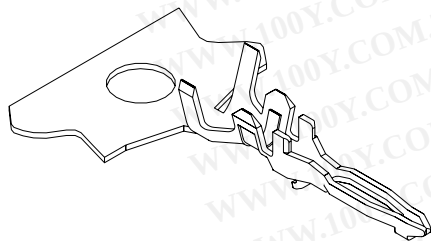
Housing: Nylon, UL 94V-0
Contact: Brass
Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	55487-0219	Yes
3	55487-0319	
4	55487-0419	
5	55487-0519	
6	55487-0619	
7	55487-0719	
8	55487-0819	

Circuits	Order No.	Lead-free
9	55487-0919	Yes
10	55487-1019	
11	55487-1119	
12	55487-1219	
13	55487-1319	
14	55487-1419	
15	55487-1519	

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

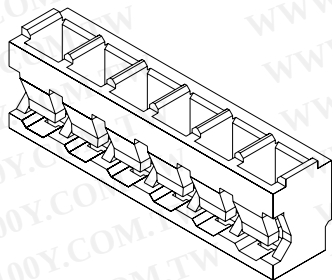
Physical

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
50034-8000	Reel	Yes
50034-8100	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	51015-0200
3	51015-0300
4	51015-0400
5	51015-0500
6	51015-0600
7	51015-0700
8	51015-0800

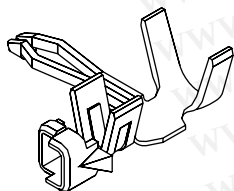
Circuits	Order No.
9	51015-0900
10	51015-1000
11	51015-1100
12	51015-1200
13	51015-1300
14	51015-1400
15	51015-1500

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

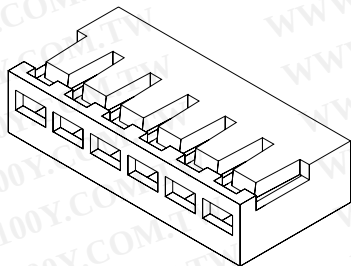
Wire Range: 24 to 30 AWG

Insulation Range: 35023—1.50mm dia. max. (24 AWG)

Order No.	Contact Material	Plating	Lead-free
35021-1201	Brass	Pre-Tin	Yes
35021-1301	Phosphor Bronze	Post-Tin	
35021-1360			

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

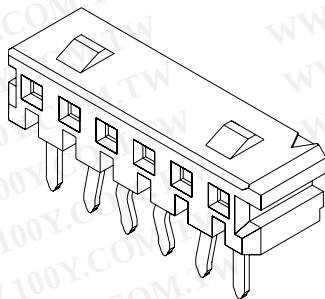
Circuits	Order No.
2	35023-0002
3	35023-0003
4	35023-0004
5	35023-0005
6	35023-0006

Circuits	Order No.
7	35023-0007
8	35023-0008
9	35023-0009
10	35023-0010
11	35023-0011

Circuits	Order No.
12	35023-0012
13	35023-0013
14	35023-0014
16	35023-0016

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

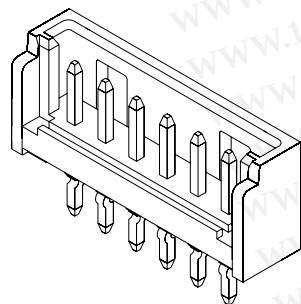
Circuits	Order No.		Lead-free
	Tray	Tube	
3	52418-0310	52418-0390	Yes
4	52418-0410	52418-0490	
5	52418-0510	52418-0590	
6	52418-0610	52418-0690	
7	52418-0710	52418-0790	
8	52418-0810		
9	52418-0910	52418-0990	
10	52418-1010		
11	52418-1110	52418-1190	

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

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	53290-0371	53290-0380	Yes
4		53290-0480	
5	53290-0571	53290-0580	
6	53290-0671	53290-0680	
7		53290-0780	
8	53290-0871	53290-0880	
9	53290-0971	53290-0980	
10	53290-1071	53290-1080	
11	53290-1171	53290-1180	

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

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

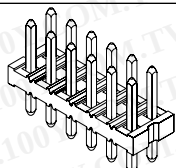
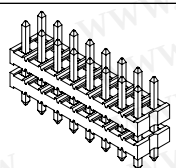
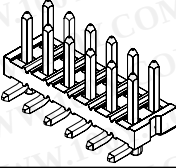
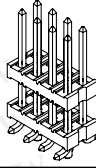
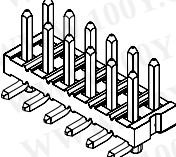
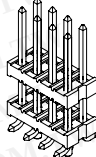
Product Specification: PS-87761-100
Packaging: Tray, tube or bag
Mates With: Milli-Grid 2.00mm Receptacles
Designed In: Millimeters

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

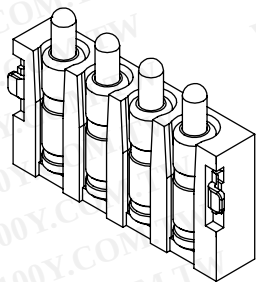
Single Body Options		Series	Dual Body Options		Series
	Vertical Through Hole	87758		Vertical Through Hole	87761
	Vertical SMT	87759		Vertical SMT	87762
	Vertical SMT with Pegs	87759		Vertical SMT with Pegs	87762

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	47282-0001	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

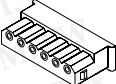
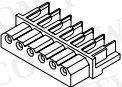
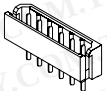
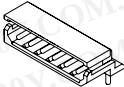
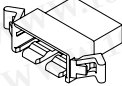
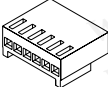
Physical

Housing: Glass-filled high-temperature thermoplastic, UL 94V-0
Contact: Copper Alloy
Plating: Contact Area—40μ" Gold
Solder Tail Area—Gold
Underplating: Nickel

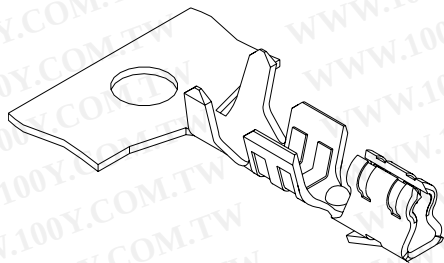
2.50mm (.098") Pitch

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

B

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

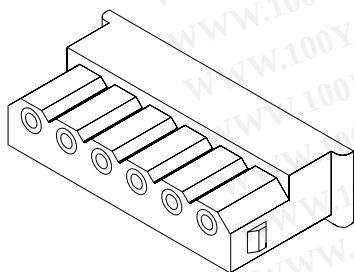
Physical

Contact: Phosphor Bronze

Plating: Tin

Order No.	Packaging	Engineering No.	Wire Range AWG	Insulation Diameter	Lead-free
08-70-1039	Reel	5263PBT	22-28	1.90 (.075) max.	Yes
08-70-1040	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

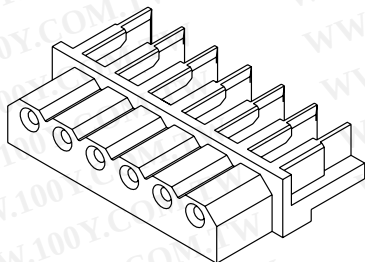
Housing: Nylon, UL 94V-0

Circuits	Order No.
2	50-37-5023
3	50-37-5033
4	50-37-5043
5	50-37-5053
6	50-37-5063
7	50-37-5073
8	50-37-5083

Circuits	Order No.
9	50-37-5093
10	50-37-5103
11	50-37-5113
12	50-37-5123
13	50-37-5133
14	50-37-5143
15	50-37-5153

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

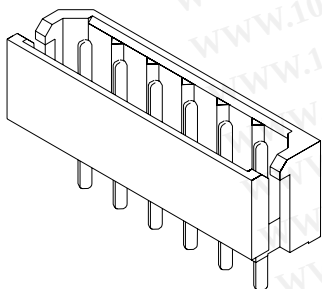
Housing: Glass-filled PBT, UL 94V-0
 Contact: Phosphor Bronze
 Plating: Tin
 Wire Accommodation: 24 AWG solid or stranded with topcoat or 26 AWG stranded with topcoat

Circuits	Order No.	Lead-free
2	22-43-3020	Yes
3	22-43-3030	
4	22-43-3040	
5	22-43-3050	
6	22-43-3060	
7	22-43-3070	
8	22-43-3080	

Circuits	Order No.	Lead-free
9	22-43-3090	Yes
10	22-43-3100	
11	22-43-3110	
12	22-43-3120	
13	22-43-3130	
14	22-43-3140	
15	22-43-3150	

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

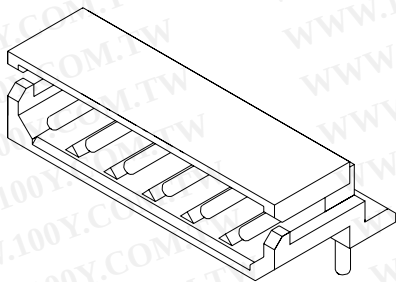
Housing: Nylon, UL 94V-0
 Contact: Brass
 Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	99-99-0986	Yes
3	99-99-0987	
4	99-99-0988	
5	99-99-0989	
6	99-99-0990	
7	99-99-0991	

Circuits	Order No.	Lead-free
8	99-99-0992	Yes
9	99-99-0993	
10	99-99-0994	
11	99-99-0995	
12	99-99-0996	

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

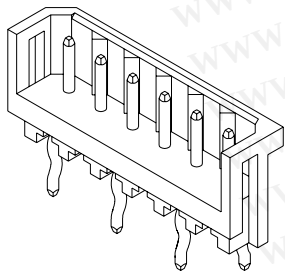
Circuits	Order No.	Lead-free
2	22-05-7025	Yes
3	22-05-7035	
4	22-05-7045	
5	22-05-7055	
6	22-05-7065	

Circuits	Order No.	Lead-free
7	22-05-7075	Yes
8	22-05-7085	
9	22-05-7095	
10	22-05-7105	

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

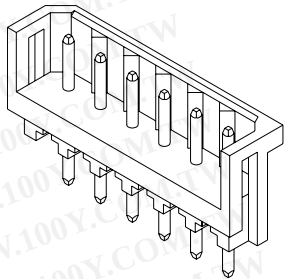
Plating: Tin over Nickel

Circuits	Order No.	Lead-free
2	22-43-6020	Yes
3	22-43-6030	
4	22-43-6040	
5	22-43-6050	
6	22-43-6060	
7	22-43-6070	
8	22-43-6080	

Circuits	Order No.	Lead-free
9	22-43-6090	Yes
10	22-43-6100	
11	22-43-6110	
12	22-43-6120	
13	22-43-6130	
14	22-43-6140	
15	22-43-6150	

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

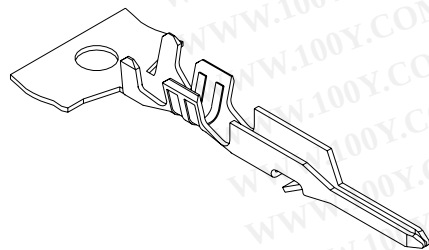
Circuits	Order No.	Lead-free
2	22-43-8020	Yes
3	22-43-8030	
4	22-43-8040	
5	22-43-8050	
6	22-43-8060	
7	22-43-8070	
8	22-43-8080	

Circuits	Order No.	Lead-free
9	22-43-8090	Yes
10	22-43-8100	
11	22-43-8110	
12	22-43-8120	
13	22-43-8130	
14	22-43-8140	
15	22-43-8150	

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

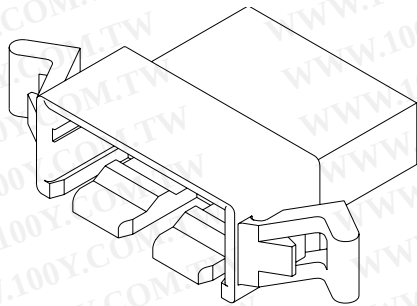
Physical

Contact: Brass
Plating: Tin

Order No.	Packaging	Wire Gauge AWG	Insulation Diameter	Lead-free
08-70-0102	Reel	22-28	1.90mm max.	Yes
08-70-0103	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

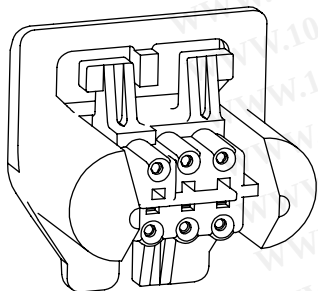
Housing: Nylon, UL 94V-0

Circuits	Order No.	
	With Ears	Without Ears
2	29-11-0022	29-11-0023
3	29-11-0032	29-11-0033
4	29-11-0042	29-11-0043
5	29-11-0052	29-11-0053
6	29-11-0062	29-11-0063
7	29-11-0072	29-11-0073

Circuits	Order No.	
	With Ears	Without Ears
8	29-11-0082	29-11-0083
9	29-11-0092	29-11-0093
10	29-11-0102	29-11-0103
11	29-11-0112	29-11-0113
12	29-11-0122	29-11-0123

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
45579-0001	Yes

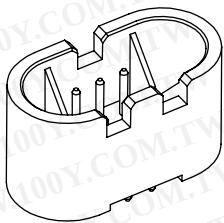
www.molex.com/product/wb/spoxbmi.html



MX10 B-49

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

45578
Vertical



Order No.	Plating	Underplating	Lead-free
45578-0001	Tin	Nickel	Yes
45578-0002			

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

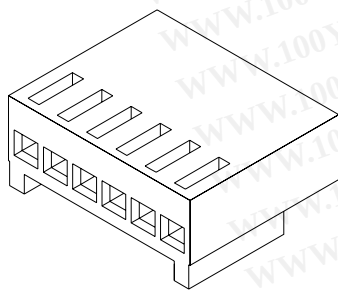
Physical

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

www.molex.com/product/wb/spoxbmi.html

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.

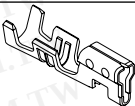
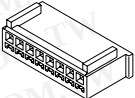
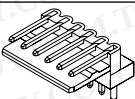
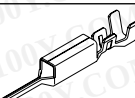
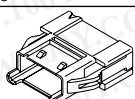
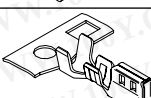
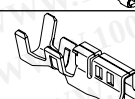
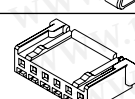
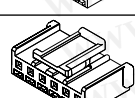
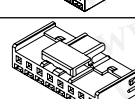
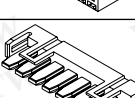
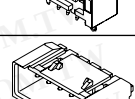
Physical

Housing: Nylon, UL 94V-0

Circuits	Order No.
2	22-01-1022
3	22-01-1032
4	22-01-1042
5	22-01-1052
6	22-01-1062
7	22-01-1072
8	22-01-1082

Circuits	Order No.
9	22-01-1092
10	22-01-1102
11	22-01-1112
12	22-01-1122
13	22-01-1132
14	22-01-1142
15	22-01-1152

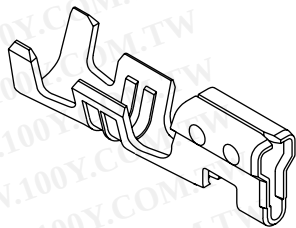
2.50mm (.098") Pitch

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
50802-9001	Reel	Yes
50802-9101	Bag	
50802-8000	Reel	
50802-8100	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

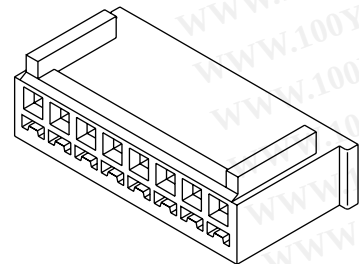
Voltage: 250V max.
Current: 3.0A max.

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

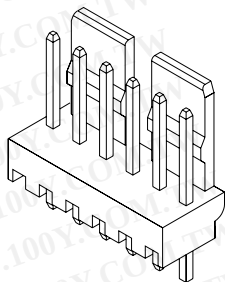
Circuits	Order No.
2	51191-0200
3	51191-0300
4	51191-0400
5	51191-0500
6	51191-0600
7	51191-0700
8	51191-0800

Circuits	Order No.
9	51191-0900
10	51191-1000
11	51191-1100
12	51191-1200
13	51191-1300
14	51191-1400
15	51191-1500

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

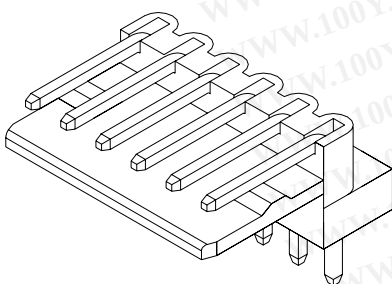
Circuits	Order No.	Lead-free
2	22-04-1021	Yes
3	22-04-1031	
4	22-04-1041	
5	22-04-1051	
6	22-04-1061	
7	22-04-1071	
8	22-04-1081	
9	22-04-1091	
10	22-04-1101	
11	22-04-1111	

Circuits	Order No.	Lead-free
12	22-04-1121	Yes
13	22-04-1131	
14	22-04-1141	
15	22-04-1151	
16	22-04-1161	
17	22-04-1171	
18	22-04-1181	
19	22-04-1191	
20	22-04-1201	

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

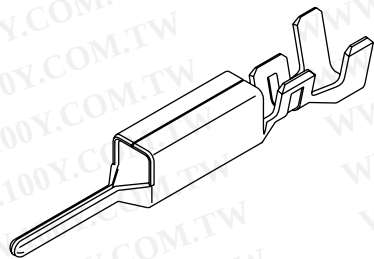
Plating: Tin over Copper

Circuits	Order No.	Lead-free
2	22-05-1022	Yes
3	22-05-1032	
4	22-05-1042	
5	22-05-1052	
6	22-05-1062	
7	22-05-1072	
8	22-05-1082	

Circuits	Order No.	Lead-free
9	22-05-1092	Yes
10	22-05-1102	
11	22-05-1112	
12	22-05-1122	
13	22-05-1132	
14	22-05-1142	
15	22-05-1152	

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

50837
Male



Order No.	Packaging	Lead-free
50837-8000	Reel	Yes
50837-8100	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

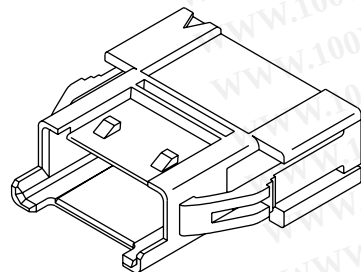
Voltage: 250V max.
Current: 3.0A max.

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	51198-0200
3	51198-0300
4	51198-0400
5	51198-0500
6	51198-0600
7	51198-0700
8	51198-0800

Circuits	Order No.
9	51198-0900
10	51198-1000
11	51198-1100
12	51198-1200
13	51198-1300
14	51198-1400
15	51198-1500

2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Crimp Terminal 50351

Features and Benefits

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

Reference Information

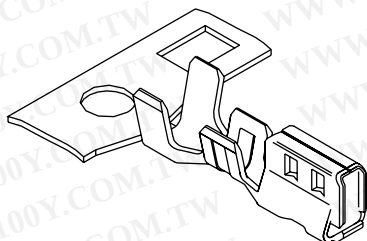
Use With: 51102 and 51103
Designed In: Millimeters

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



Order No.	Packaging	Lead-free
50351-8000	Reel	Yes
50351-8100	Bag	

2.50mm (.098") Pitch Mini-Lock™ Wire-to-Board Crimp Terminal 50752 Female

Features and Benefits

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

Reference Information

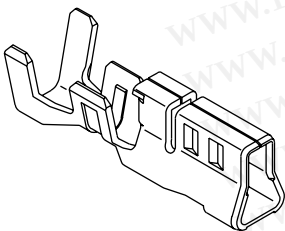
Mates With: 51103 and 51163
Designed In: Millimeters

Electrical

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

Physical

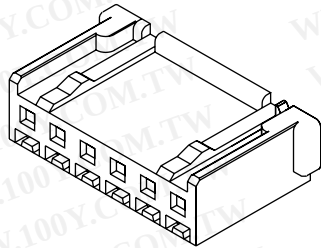
Contact: Phosphor Bronze
Plating: Tin
Wire Range: 22 to 28 AWG
Insulation Range: 1.15 to 1.80mm (.045 to .070") dia.
Strip Length: 2.00 to 2.50mm (.079 to .098")



Order No.	Packaging	Lead-free
50752-8000	Reel	Yes

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

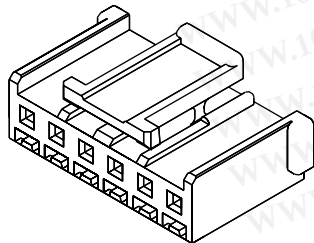
Housing: White PBTP, UL 94V-0

Circuits	Order No.
2	51102-0200
3	51102-0300
4	51102-0400
5	51102-0500
6	51102-0600
7	51102-0700
8	51102-0800

Circuits	Order No.
9	51102-0900
10	51102-1000
11	51102-1100
12	51102-1200
13	51102-1300
14	51102-1400
15	51102-1500

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

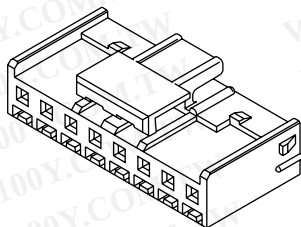
Housing: White PBTP, UL 94V-0

Circuits	Order No.
2	51103-0200
3	51103-0300
4	51103-0400
5	51103-0500
6	51103-0600
7	51103-0700
8	51103-0800

Circuits	Order No.
9	51103-0900
10	51103-1000
11	51103-1100
12	51103-1200
13	51103-1300
14	51103-1400
15	51103-1500

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

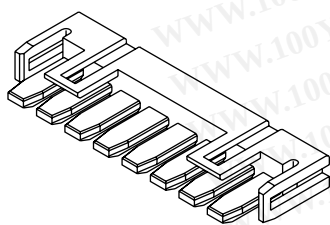
Housing: White PBTP, UL 94V-0

Circuits	Order No.
2	51163-0200
3	51163-0300
4	51163-0400
5	51163-0500
6	51163-0600
7	51163-0700
8	51163-0800

Circuits	Order No.
9	51163-0900
10	51163-1000
11	51163-1100
13	51163-1300
14	51163-1400
15	51163-1500

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

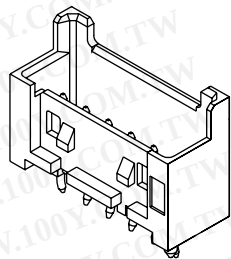
Housing: Gray PBTP, UL 94V-0

Circuits	Order No.
2	51164-0205
3	51164-0305
4	51164-0405
5	51164-0505
6	51164-0605
7	51164-0705

Circuits	Order No.
9	51164-0905
10	51164-1005
12	51164-1205
13	51164-1305
14	51164-1405

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

53375
Vertical



Circuits	Order No.	Lead-free
2	53375-0210	Yes
3	53375-0310	
4	53375-0410	
5	53375-0510	
6	53375-0610	
7	53375-0710	
8	53375-0810	

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.

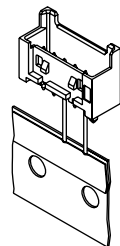
Physical

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

Circuits	Order No.	Lead-free
9	53375-0910	Yes
11	53375-1110	
12	53375-1210	
13	53375-1310	
14	53375-1410	
15	53375-1510	

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

53375
Vertical
Radial Tape



Circuits	Order No.	Lead-free
2	53375-0290	Yes
3	53375-0390	
4	53375-0490	
5	53375-0590	

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.

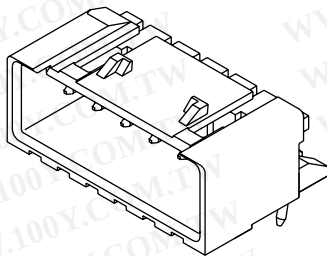
Physical

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

Circuits	Order No.	Lead-free
6	53375-0690	Yes
7	53375-0790	
8	53375-0890	

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

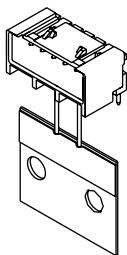
Plating: Tin

Circuits	Order No.	Lead-free
2	53426-0210	Yes
3	53426-0310	
4	53426-0410	
5	53426-0510	
6	53426-0610	
7	53426-0710	
8	53426-0810	

Circuits	Order No.	Lead-free
9	53426-0910	Yes
10	53426-1010	
11	53426-1110	
12	53426-1210	
13	53426-1310	
14	53426-1410	
15	53426-1510	

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

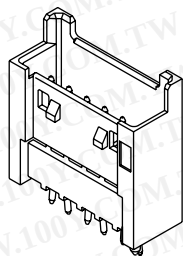
Plating: Tin

Circuits	Order No.	Lead-free
2	53426-0290	Yes
3	53426-0390	
4	53426-0490	
5	53426-0590	

Circuits	Order No.	Lead-free
6	53426-0690	Yes
7	53426-0790	
8	53426-0890	

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.

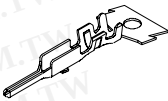
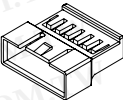
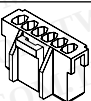
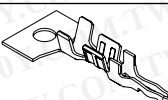
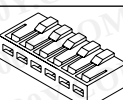
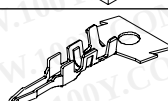
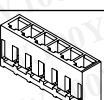
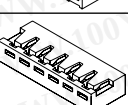
Physical

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

Circuits	Order No.	Lead-free
2	53517-0210	Yes
3	53517-0310	
4	53517-0410	
5	53517-0510	
6	53517-0610	
7	53517-0710	
8	53517-0810	

Circuits	Order No.	Lead-free
9	53517-0910	Yes
10	53517-1010	
11	53517-1110	
12	53517-1210	
13	53517-1310	
14	53517-1410	
15	53517-1510	

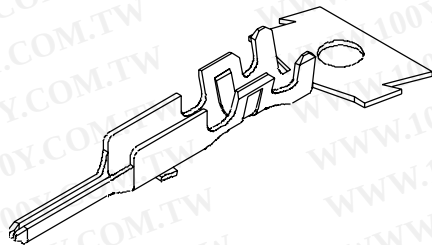
2.50mm (.098") Pitch

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

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

B

35053



Order No.	Lead-free
35053-9002	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

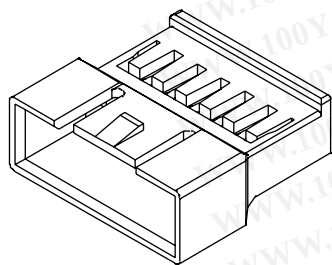
Physical

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

www.molex.com/customer.html?seriesNumber=35053

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

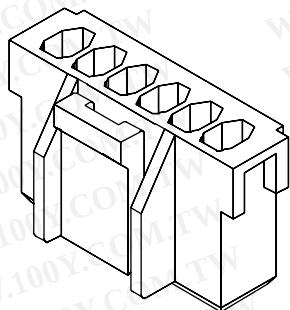
Circuits	Order No.
2	35184-0200
3	35184-0300
4	35184-0400
5	35184-0500
6	35184-0600

Circuits	Order No.
7	35184-0700
8	35184-0800
9	35184-0900
10	35184-1000
11	35184-1100

Circuits	Order No.
12	35184-1200
14	35184-1400

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

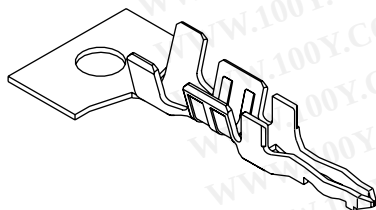
Circuits	Order No.
2	35155-0200
3	35155-0300
4	35155-0400
5	35155-0500
6	35155-0600
7	35155-0700
8	35155-0800

Circuits	Order No.
9	35155-0901
10	35155-1000
11	35155-1100
12	35155-1200
13	35155-1300
14	35155-1400
15	35155-1500

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.

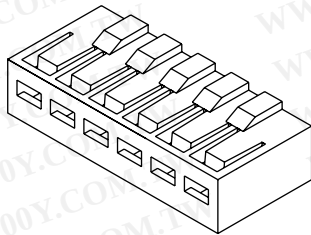
Physical

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
50097-8000	Reel	Yes
50097-8100	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	51035-0200
3	51035-0300
4	51035-0400
5	51035-0500
6	51035-0600
7	51035-0700

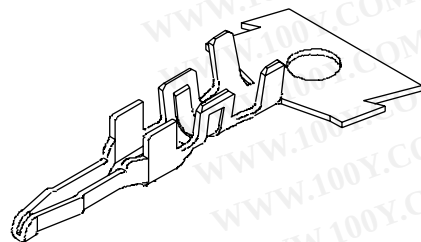
Circuits	Order No.
8	51035-0800
9	51035-0900
10	51035-1000
11	51035-1100
12	51035-1200
13	51035-1300

Circuits	Order No.
14	51035-1400
15	51035-1500
16	51035-1600
17	51035-1700
18	51035-1800

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

Electrical

Voltage: 250V max.

Current:

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

Physical

Contact: Brass

Plating: Tin

Insulation Diameter: 1.90mm (.075") max.

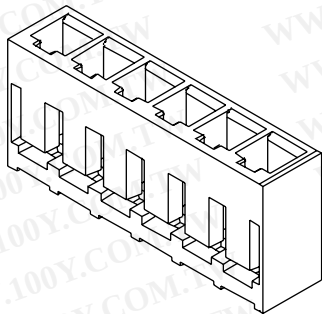
Wire Gauge: 22 to 28 AWG

PCB Thickness: 1.60mm (.063")

Order No.	Lead-free
35047-9802	Yes
35047-9860	

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	35164-0200
3	35164-0300
4	35164-0400
5	35164-0500
6	35164-0600

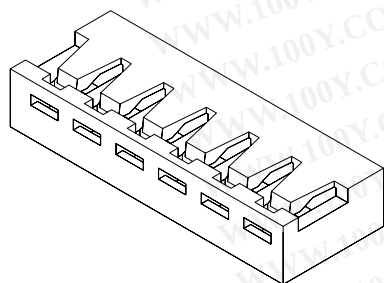
Circuits	Order No.
7	35164-0700
8	35164-0800
9	35164-0900
10	35164-1000
11	35164-1100

Circuits	Order No.
12	35164-1200
13	35164-1300
14	35164-1400
15	35164-1500

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	35022-0002
3	35022-0003
4	35022-0004
5	35022-0005
6	35022-0006

Circuits	Order No.
7	35022-0007
8	35022-0008
9	35022-0009
10	35022-0010
11	35022-0011

Circuits	Order No.
12	35022-0012
13	35022-0013
14	35022-0014
15	35022-0015
16	35022-0016

www.molex.com/customer.html?seriesNumber=35022

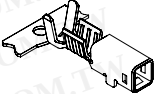
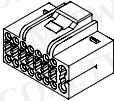


MX10 B-65

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

B

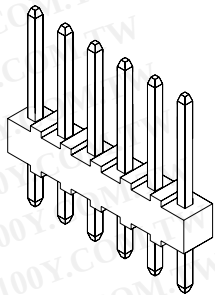
2.00 to 2.50mm (.079 to .098") Pitch PCB and Wire Connectors

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

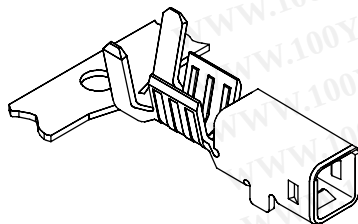
Circuits	Order No.	Lead-free
3	22-03-1031	Yes
4	22-03-1041	
5	22-03-1051	
6	22-03-1061	
7	22-03-1071	
8	22-03-1081	
9	22-03-1091	

Circuits	Order No.	Lead-free
10	22-03-1101	Yes
11	22-03-1111	
12	22-03-1121	
13	22-03-1131	
14	22-03-1141	
15	22-03-1151	
16	22-03-1161	

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

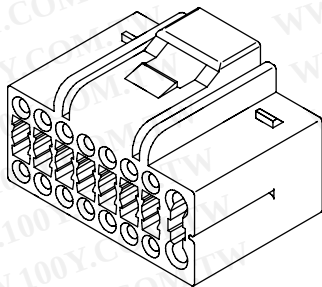
Physical

Contact: Brass
Plating: Tin

Order No.	Lead-free
50535-9001	Yes

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

51128



Order No.	Lead-free
51128-1601	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.

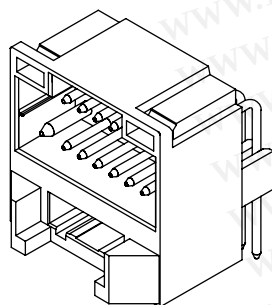
Physical

Housing: PA, UL94

www.molex.com/customer.html?seriesNumber=51128

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

53526



Circuits	Order No.	Lead-free
16	53526-1619	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

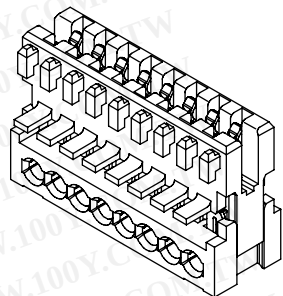
Plating: Tin

www.molex.com/customer.html?seriesNumber=53526

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

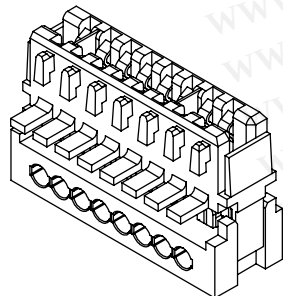
Circuits	Order No.	Lead-free
3	91716-0001	Yes
4	91716-0501	
5	91716-1001	
6	91716-1501	
7	91716-2001	
8	91716-2501	
9	91716-3001	
10	91716-3501	
11	91716-4001	

Circuits	Order No.	Lead-free
12	91716-4501	Yes
13	91716-5001	
14	91716-5501	
15	91716-6001	
16	91716-6501	
17	91716-7001	
18	91716-7501	
19	91716-8001	
20	91716-8501	

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	91780-0001	Yes
4	91780-0501	
5	91780-1001	
6	91780-1501	
7	91780-2001	

Circuits	Order No.	Lead-free
8	91780-2501	Yes
9	91780-3001	
10	91780-3501	
11	91780-4001	
12	91780-4501	