

2.54mm (.100") Pitch PCB and Wire Connectors

SL™ Modular Interconnect System

Terminals	C-6 to C-8
Crimp Housings	C-9 to C-20
Insulation Displacement Connector Assemblies	C-21 to C-27
Wire-to-Wire Connectors	C-28 to C-32 and C-35
Interim Clips	C-33 to C-34
Wire-to-Board Headers	
Shrouded	C-36 to C-46
High Current	C-47

C-Grid® Modular Interconnect System

Headers	
Breakaway, Dual Row	C-48 to C-57
Shrouded, Dual Row	C-58 to C-69
Dual Body Breakaway	C-70 to C-71
Micro Shunt	C-72 to C-73
PCB Connectors and Receptacles	C-74 to C-81
Shunt/Jumper	C-82
Micro Shunt	C-83

C-Grid III™ Modular Interconnect System

Terminals	C-85
Crimp Housings	C-86 to C-90
Headers	
Single Row	C-91 to C-92
Dual Row	C-93 to C-94
Kinked Pin, Single Row and Dual Row	C-95 to C-98
Shrouded, Single Row and Dual Row	C-99 to C-104
PCB Connectors	C-105 to C-106

KK® Modular Interconnect System

Terminals	C-110 to C-113
Crimp Housings	C-114 to C-115
IDT Connectors	C-116 to C-118
Headers	
Breakaway, Single Row	C-119 to C-125
Solid, Single Row	C-126 to C-135
PCB Connectors	C-136 to C-142
Accessories	D-81 to D-83

Application Tooling C-143 to C-151



For more information, please see the last page of the catalog for the location nearest you or contact:



C-Grid® and SL™ High Density Connectors Introduction

Molex presents its 2.54mm (.100") pitch grid interconnection products... C-Grid, the dual row, board-to-board system and SL™, the modular, single row wire-to-board and wire-to-wire system.

The proven design of both the C-Grid and SL systems features similar material and electrical specifications. Both utilize 0.64mm (.025") square pins and selective Gold or Tin/Lead plating.

C-Grid, based on a .100" grid, is designed for dense electronic packaging. The system includes: vertical and right angle headers in breakaway, shrouded and dual-body styles; vertical and right angle receptacles; headers and receptacles for SMT applications; and a 2-circuit shunt completes the C-Grid product line.

SL is designed for high density signal applications. The system includes: low profile latching vertical and right angle headers; 5 stackable, low profile housings for male or female crimp terminals; pre-assembled, single piece pin and receptacle connector assemblies for IDT termination of discrete wire or ribbon cable and piercing crimp termination of FFC/FPC; single

and dual row latching interim clips for stacking of subassemblies to form larger connectors; panel mounts for modular wire-to-wire remote interconnections; and SL offers design flexibility and automated harness-making capabilities when combined with our tooling.

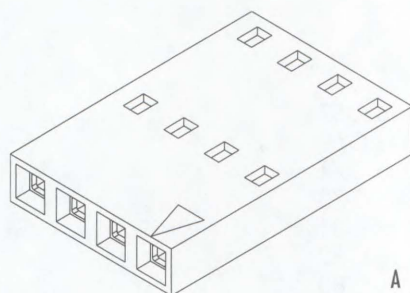
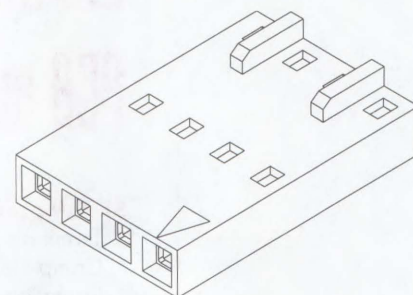
These 4 low profile, stackable housings form the basis of the single row system. Each housing accommodates either male or female terminals, IDT or crimp.

The "A" version is infinitely stackable on the X-Y matrix.

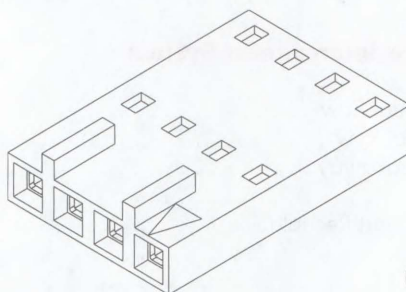
The "C" version has ribs on the front end that polarize and also prevent the housing from twisting off the mating pins during mating/disconnect.

The "D" version has back ribs that polarize, guide and maintain the connector in position in an interim clip or panel mount. It is used with both male and female terminals.

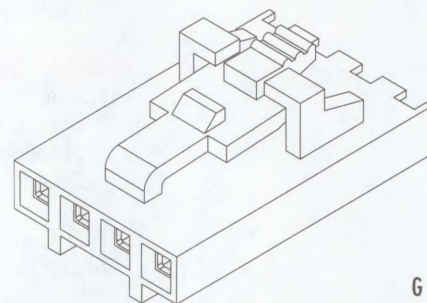
The "G" version has front ribs as well as a positive locking latch and anti-entanglement ribs to prevent wires from catching under the latch during harness-making and storage.



A

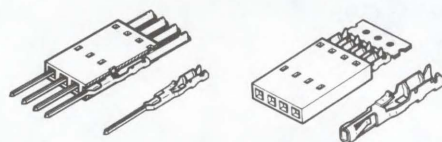


C

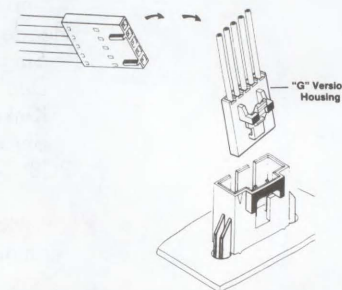


G

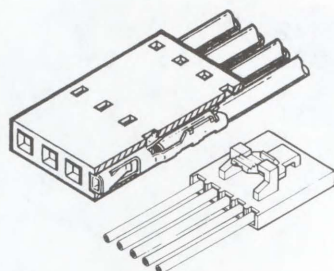
SL™ boasts pre-assembled, single piece construction of its insulation displacement-type connector assemblies. These can terminate both discrete wire or ribbon cable.



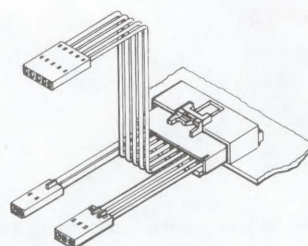
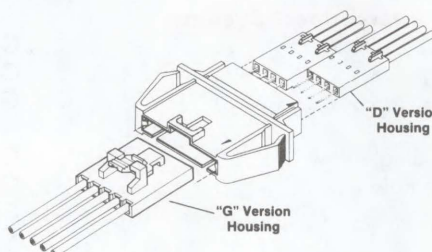
Shown: Wire-to-wire connection using male connectors in "D" version housings. The ribs interface to slots on the underside of the panel mount. Once loaded, the panel mount is fitted into place in the panel. Completing the connection, the female connector, "G" version, is guided through the other end of the panel mount via polarization slots. Positive latch ensures a tight lock.



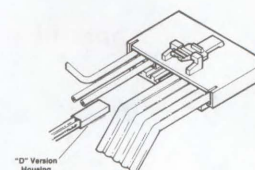
Preloaded assemblies are loaded into plastic tubes that protect the product during shipping and also allow the connector to be integrated into highly automated harness production.



After termination the housings are locked over the terminal and the carrier strip is broken off. This automated process, with built-in diagnostic systems, assures quality products.

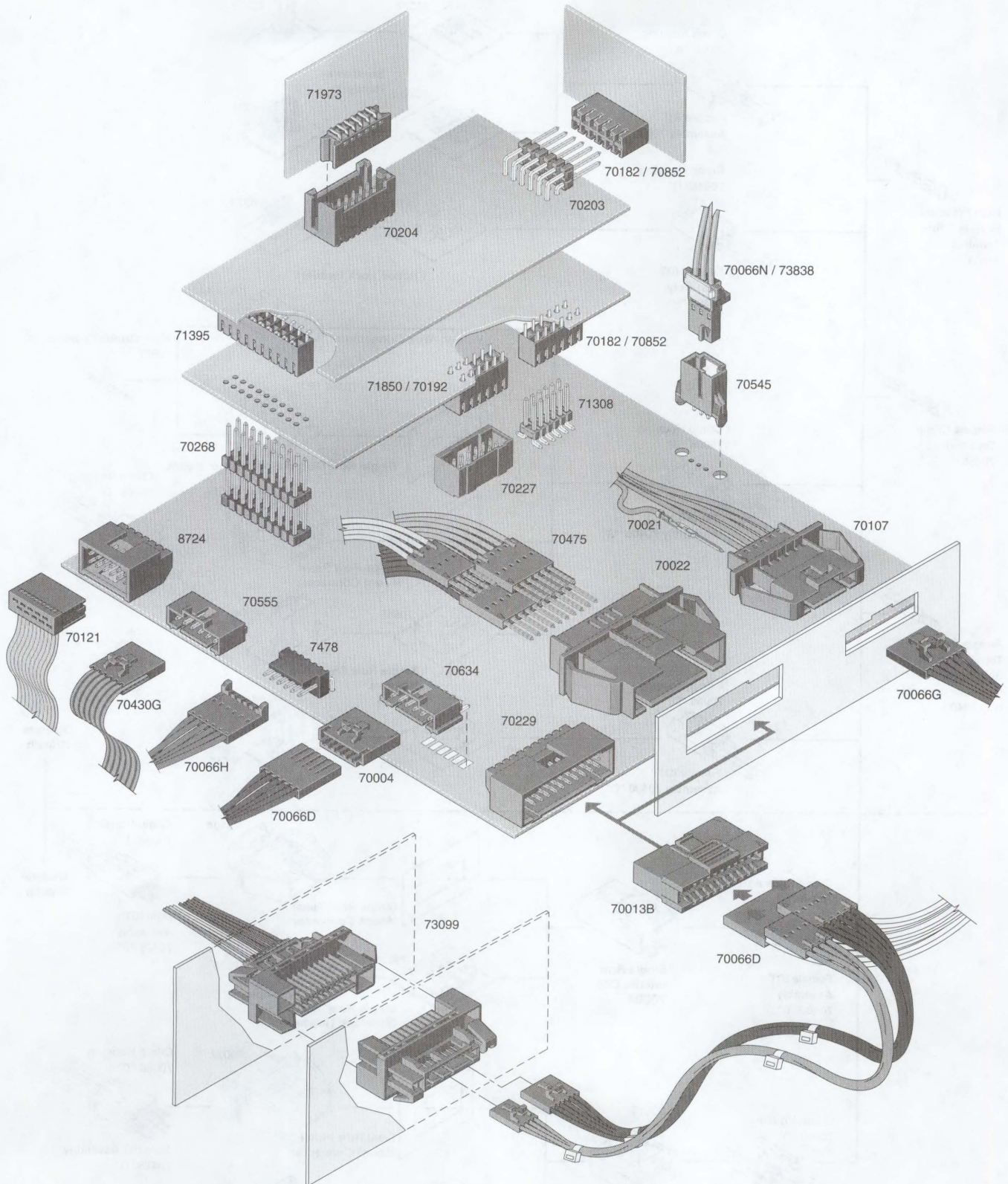


Shown: Wire-to-board connection using a shrouded header with PC board locks and a "G" version female connector. The polarizing ribs on the connector prevent it from breaking or bending the pins on the header during mating and disconnect. Note the positive latching feature.



Shown: Gang loading of subassemblies in an interim clip module. The slots in the clip guide the "D" version housing during loading and also prevent the housing from drifting within the clip.

molex® SL™
Modular Interconnection
System



C

2.54mm (.100") Pitch



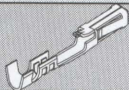
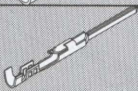
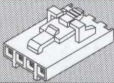
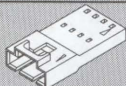
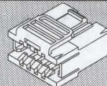
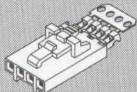
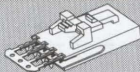
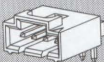
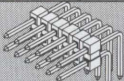


2.54mm (.100") Pitch

C-Grid®/SL™

Modular Interconnect System

- Wire-to-wire, wire-to-board and board-to-board applications
- Three Termination Methods: Crimp, IDT, FFC Cable Piercing
- Positive Latching System
- Through Hole and SMT configurations

	Description	Specifications	Materials	Circuits/Wire Gauge	Options	Series No.
Terminals						
	Female Crimp Terminal	3.0 A, 250V -40 to +105°C	Phosphor Bronze	22-30 AWG	Bag or Reel	70058 (Standard)
	Male Crimp Terminal					71851 (High Force)
						70021
Housings						
	Crimp Housing (to be used with female terminals)	3.0 A, 250V -40 to +105°C	Housing: Black glass-filled polyester, UL 94V-0	2-25	Single Row	70066
				4-54	Dual Row	70450
	Crimp Housing (to be used with male terminals)			2-25	Single Row	70107
	Modular Branch	3.0 A, 250V -40 to +105°C	Housing: Black glass-filled polyester, UL 94V-0	2-25	Single Row	70018, 70104
				6-50	Dual Row	70022
	Interim Clip			4-25	Single Row	70004
				6-50	Dual Row	70013
Assemblies						
	Insulation Displacement Single Row Assembly	1.2A - 28 AWG 1.8A - 26 AWG 3.0A - 22 AWG 3.0A - 24 AWG -40 to +105°C	Housing: Black glass filled polyester, UL 94V-0	2-25	Female	70400
					Male	70475
	FFC/FPC Single Row Assembly	2.0A, 250V -40 to +105°C	Housing: Black glass filled polyester, UL 94V-0		Female	70430
					Male	70431
Headers*						
	Vertical Shrouded Header	3.0 A, 250V -40 to +105°C	Housing: Black glass-filled PCT, UL 94V-0	2-25	Single Row	70543, 70541, 70545, 74190, 70563, 70565
	Right Angle Shrouded Header					70553, 70551, 70555, 70634, 70573, 70575
	Vertical Unshrouded Breakaway Header	3.0 A, 250V -40 to +105°C	Housing: Glass-filled polyester or high temperature thermal plastic, UL 94V-0	4-80	Dual Row	8624, 70280, 70287, 70260, 71308
	Right Angle Unshrouded Breakaway Header					70203, 71764, 70524, 70216, 70289
	Vertical Shrouded Header	3.0 A, 250V -40 to +105°C	Glass-filled polyester or high temperature thermal plastic, UL 94V-0	6-72	Dual Row	8723, 70227, 70567, 70568, 71349, 70204
	Right Angle Shrouded Header		Housing: Glass-filled polyester or glass-filled nylon, UL 94V-0			8724, 70229
	Dual Body Unshrouded Breakaway Header	3.0A, 250V -40 to +105°C	Housing: Glass-filled polyester, UL 94V-0	2-40	Single Row	70345
					Dual Row	70268
Receptacles						
	Vertical PCB Receptacle	2.5A, 250V -40 to +105°C	Housing: Black glass-filled polyester or LCP, UL 94V-0	4-80	Dual Row	70182, 70852, 71850, 71395, 71840, 70192, 70854
	Right Angle PCB Receptacle		Housing: High temperature thermal plastic, UL 94V-0	8-130		71979 (SMT)
						71973 (Through Hole)

2.54mm (.100") Pitch

C

C
2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70021

Packaging: Reel or bag

Mates With: 70058 and 71851 female crimp terminals, and

70400 and 70430 connector assemblies

Use With: 70066D and 70107 housings

Designed In: Inches

Electrical

Current: 3.0A

Contact Resistance: 15mΩ max.

Mechanical

Wire Pull-Out Force: 17.79N (4.0 lb) min.

Durability: Tin—25 cycles; Gold—50 cycles

Physical

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Wire Gauge: 22 to 24 and 24 to 30 AWG

Insulation and Wire Gauge Range: See Table

Pin Mating Length: .300" max. to .280" min. (measured from top of housing after assembled)



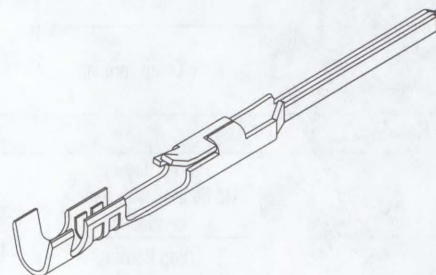
2.54mm (.100") Pitch

SL™

Terminal

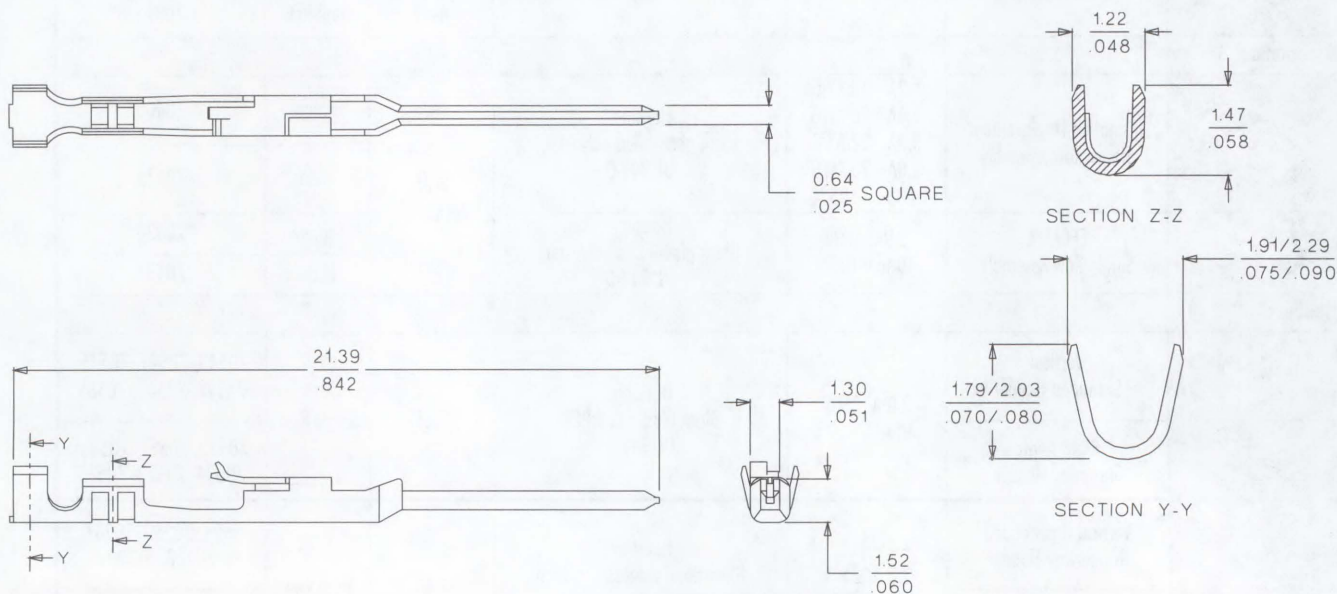
70021

Male, Crimp



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Reel			
• 16-02-0116	1	22-24	.064
• 16-02-0078		24-30	.060
• 16-02-0081	2	22-24	.064
• 16-02-0077		24-30	.060
• 16-02-0107	3	22-24	.064
• 16-02-0105		24-30	.060

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Bag			
• 16-02-0117	1	22-24	.064
• 16-02-0110		24-30	.060
• 16-02-0115	2	22-24	.064
• 16-02-0109		24-30	.060
• 16-02-0114	3	22-24	.064
• 16-02-0108		24-30	.060

• US Standard Product, available through Molex franchised distributors

Plating No. 1: 30μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" Tin/Lead in select area

Plating No. 2: 15μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" min. Tin/Lead in select area

Plating No. 3: 150μ" Tin/Lead over 50μ" Nickel overall

Each reel contains 20,000 to 25,000 terminals

FEATURES AND SPECIFICATIONS

Features and Benefits

- Dual beam, fully enclosed box contact
- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-70058
 Packaging: Bag or reel
 Mates With: 70021 male crimp terminals and
 0.64mm (.025") square pins
 Use With: All 70066 and 70450 housings
 Designed In: Inches

Electrical

Current: 3.0A
 Contact Resistance: 15mΩ max.

Mechanical

Contact Retention to Housing: 17.79N (4.0 lb)
 Wire Pull-Out Force: 17.79N (4.0 lb)
 Mating Force: 2.22N (.50 lb) max.
 Unmating Force: 0.28N (.06 lb) min.
 Normal Force: 0.98N (.22 lb) min.
 Durability: Tin—25 cycles; Gold—50 cycles

Physical

Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -40 to +105°C
 Wire Gauge: 22 to 24 and 24 to 30 AWG
 Insulation and Wire Gauge Range: See Table
 Mating Pin Length: 5.08mm (.200") min. (measured from top
 of housing/PCB to top of pin) 8.13mm (.320") max.



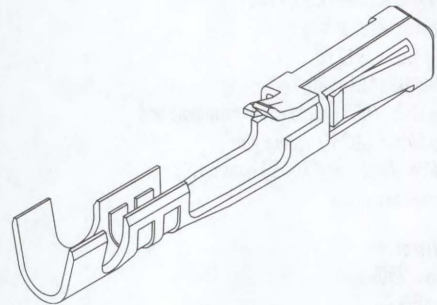
2.54mm (.100") Pitch

SL™

Terminal

70058

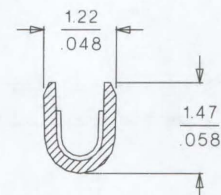
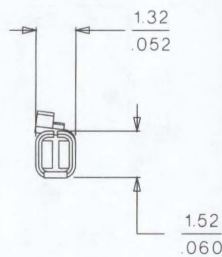
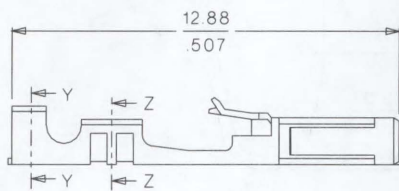
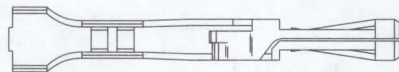
Female Box, Crimp



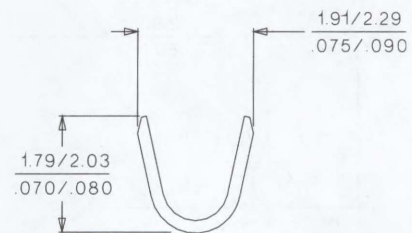
2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



SECTION Z-Z



SECTION Y-Y

ORDERING INFORMATION AND DIMENSIONS

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Reel			
• 16-02-0088	1	22-24	.064
• 16-02-0083		24-30	.060
• 16-02-0087	2	22-24	.064
• 16-02-0082		24-30	.060
• 16-02-0086	3	22-24	.064
• 16-02-0069		24-30	.060

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Bag			
• 16-02-0104	1	22-24	.064
• 16-02-0098		24-30	.060
• 16-02-0103	2	22-24	.064
• 16-02-0097		24-30	.060
• 16-02-0102	3	22-24	.064
• 16-02-0096		24-30	.060

• US Standard Product, available through Molex franchised distributors

Plating No. 1: 30μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" Tin/Lead in select area

Plating No. 2: 15μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" Tin/Lead in select area

Plating No. 3: 150μ" Tin/Lead over 50μ" Nickel overall

Each reel contains 20,000 to 25,000 terminals

FEATURES AND SPECIFICATIONS

Features and Benefits

- Dual beam, fully enclosed box contact
- Higher mating force than standard crimp terminal
- For use with low current/high vibration applications in small circuit sizes
- Dual tab strain relief
- Locking tang secures terminal in housing

Reference Information

Product Specification: PS-71851
 Packaging: Reel or bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 70021 male crimp terminals and
 0.64mm (.025") square pins
 Use With: 70066 and 70450 housings
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15mΩ max.
 Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4.0 lb) min.
 Wire Pull-Out Force: 17.79N (4.0 lb) min.
 Mating Force: Gold—5.07N (1.14 lb)
 Tin—12.14N (2.73 lb) max.
 Unmating Force: Gold—2.36N (.53 lb)
 Tin—3.60N (.81 lb) min.
 Durability: Gold—50 cycles; Tin—25 cycles

Physical

Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -40 to +105°C
 Wire Gauge: 22 to 24 and 24 to 30 AWG
 Insulation and Wire Gauge Range: See Table
 Mating Pin Length: 5.08mm (.200") min. (measured from top
 of housing/PCB to top of pin) 8.13mm (.320") max.



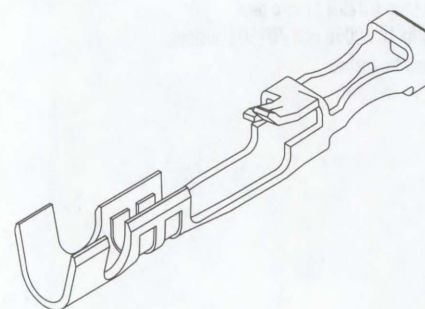
2.54mm (.100") Pitch

SL™

Terminal

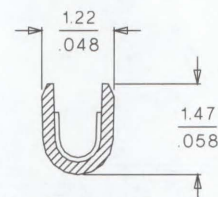
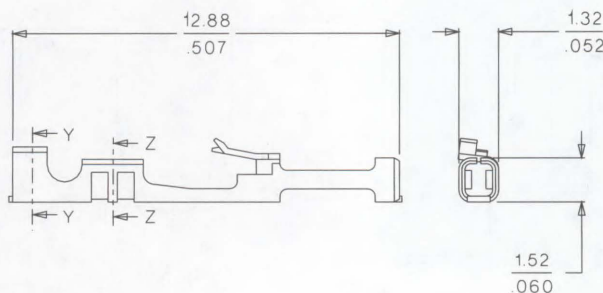
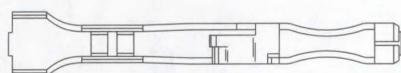
71851

Female, High Force Crimp

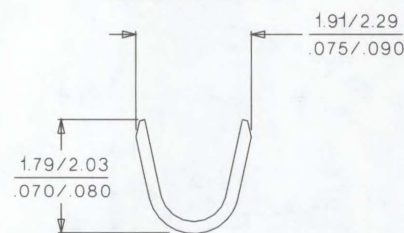


CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



SECTION Z-Z



SECTION Y-Y

ORDERING INFORMATION AND DIMENSIONS

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Reel			
• 16-02-1111	1	22-24	.064
• 16-02-1113		24-30	.060
• 16-02-1124	2	22-24	.064
• 16-02-0119		24-30	.060
• 16-02-1110	3	22-24	.064
• 16-02-1112		24-30	.060

Order No.	Plating	Wire Range (AWG) Stranded	Insulation Maximum Outside Diameter
Bag			
• 16-02-1115	1	22-24	.064
• 16-02-1117		24-30	.060
• 16-02-1125	2	22-24	.064
• 16-02-1109		24-30	.060
• 16-02-1114	3	22-24	.064
• 16-02-1116		24-30	.060

• US Standard Product, available through Molex franchised distributors

Plating No. 1: 30μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" Tin/Lead

Plating No. 2: 15μ" min. Gold in select area over 50μ" min. Nickel overall with 75μ" min. Tin/Lead in select area

Plating No. 3: 150μ" Tin/Lead over 50μ" Nickel overall

Each reel contains 20,000 terminals

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- End-to-end and side-to-side stackable for single or dual row connections to a 2.54mm (.100") pitch grid pin field

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 8624, 42375, 42377, 70203 and 70206

unshrouded headers

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

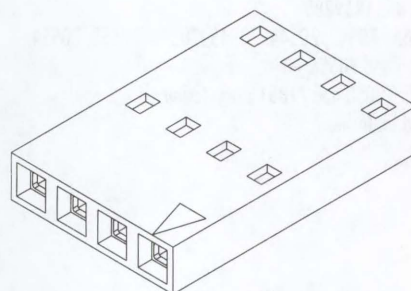
SL™

Crimp Housing

70066

Single Row

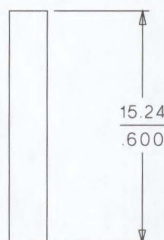
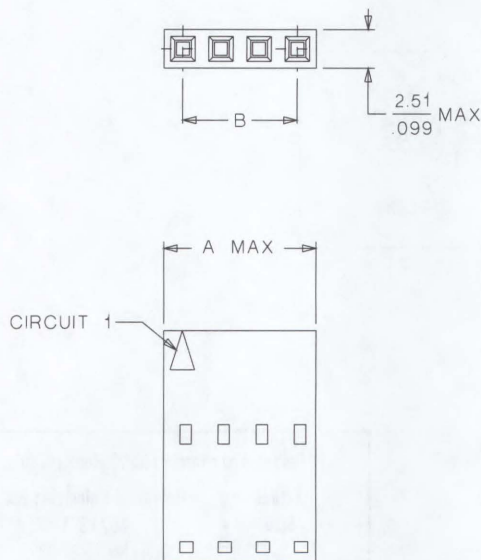
Version A, Nonpolarized



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid IIF™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 50-57-9002	5.05 (.199)	2.54 (.100)
3	• 50-57-9003	7.59 (.299)	5.08 (.200)
4	• 50-57-9004	10.13 (.399)	7.62 (.300)
5	• 50-57-9005	12.67 (.499)	10.16 (.400)
6	• 50-57-9006	15.21 (.599)	12.70 (.500)
7	• 50-57-9007	17.75 (.699)	15.24 (.600)
8	• 50-57-9008	20.29 (.799)	17.78 (.700)
9	• 50-57-9009	22.83 (.899)	20.32 (.800)
10	• 50-57-9010	25.37 (.999)	22.86 (.900)
11	• 50-57-9011	27.91 (1.099)	25.40 (1.000)
12	• 50-57-9012	30.45 (1.199)	27.94 (1.100)
13	• 50-57-9013	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 50-57-9014	35.53 (1.399)	33.02 (1.300)
15	• 50-57-9015	38.07 (1.499)	35.56 (1.400)
16	• 50-57-9016	40.61 (1.599)	38.10 (1.500)
17	• 50-57-9017	43.15 (1.699)	40.64 (1.600)
18	• 50-57-9018	45.69 (1.799)	43.18 (1.700)
19	• 50-57-9019	48.23 (1.899)	45.72 (1.800)
20	• 50-57-9020	50.77 (1.999)	48.26 (1.900)
21	• 50-57-9021	53.31 (2.099)	50.80 (2.000)
22	• 50-57-9022	55.85 (2.199)	53.34 (2.100)
23	• 50-57-9023	58.39 (2.299)	55.88 (2.200)
24	• 50-57-9024	60.93 (2.399)	58.42 (2.300)
25	• 50-57-9025	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Front ribs prevent contact damage when unmating the connector from a header; the housing cannot be twisted off pins
- Front ribs provide 180° polarization

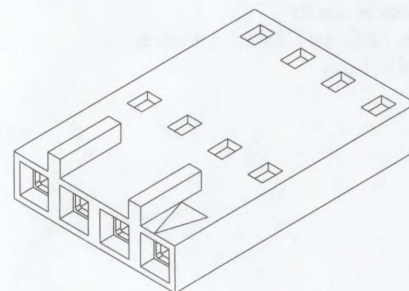
Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch
SL™
Crimp Housing

70066

Single Row
Version C, Front Ribs



Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

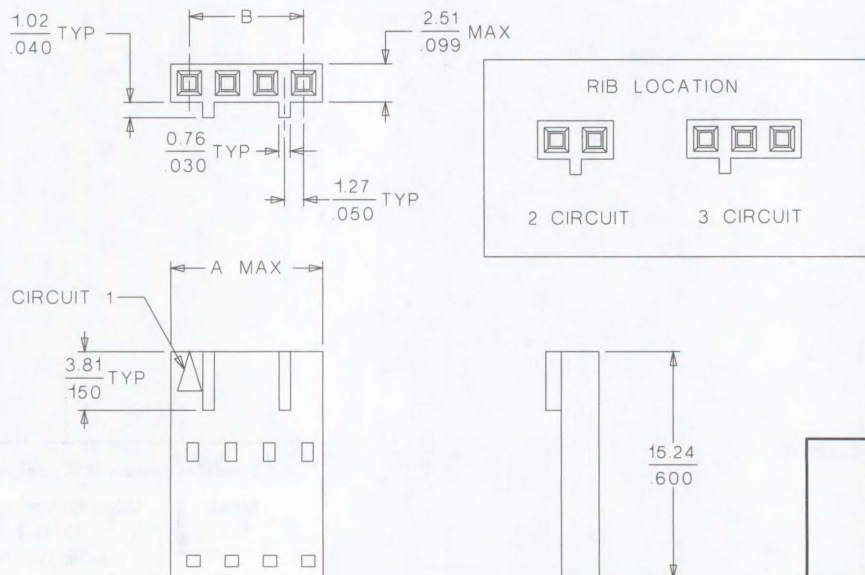
Mates With: 70543, 70544, 70545, 70546, 70553, 70554, 70555 and 70556

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 50-57-9202	5.05 (.199)	2.54 (.100)
3	• 50-57-9203	7.59 (.299)	5.08 (.200)
4	• 50-57-9204	10.13 (.399)	7.62 (.300)
5	• 50-57-9205	12.67 (.499)	10.16 (.400)
6	• 50-57-9206	15.21 (.599)	12.70 (.500)
7	• 50-57-9207	17.75 (.699)	15.24 (.600)
8	• 50-57-9208	20.29 (.799)	17.78 (.700)
9	• 50-57-9209	22.83 (.899)	20.32 (.800)
10	• 50-57-9210	25.37 (.999)	22.86 (.900)
11	• 50-57-9211	27.91 (1.099)	25.40 (1.000)
12	• 50-57-9212	30.45 (1.199)	27.94 (1.110)
13	• 50-57-9213	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 50-57-9214	35.53 (1.399)	33.02 (1.300)
15	• 50-57-9215	38.07 (1.499)	35.56 (1.400)
16	• 50-57-9216	40.61 (1.599)	38.10 (1.500)
17	• 50-57-9217	43.15 (1.699)	40.64 (1.600)
18	• 50-57-9218	45.69 (1.799)	43.18 (1.700)
19	• 50-57-9219	48.23 (1.899)	45.72 (1.800)
20	• 50-57-9220	50.77 (1.999)	48.26 (1.900)
21	• 50-57-9221	53.31 (2.099)	50.80 (2.000)
22	• 50-57-9222	55.85 (2.199)	53.34 (2.100)
23	• 50-57-9223	58.39 (2.299)	55.88 (2.200)
24	• 50-57-9224	60.93 (2.399)	58.42 (2.300)
25	• 50-57-9225	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Back ribs maintain position of connector housing in interim clip and panel mount, and prevent lateral movement when another housing is removed
- End-to-end stackable inside a single row interim clip or panel mount to form a larger single row connector
- Side-to-side and end-to-end stackable inside a dual row interim clip or panel mount to form a dual row connector

Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

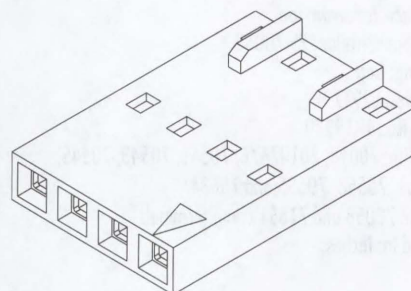
SL™

Crimp Housing

70066

Single Row

Version D, Back Ribs



2.54mm (.100") Pitch

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

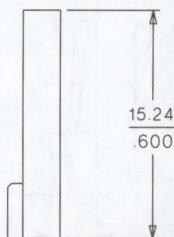
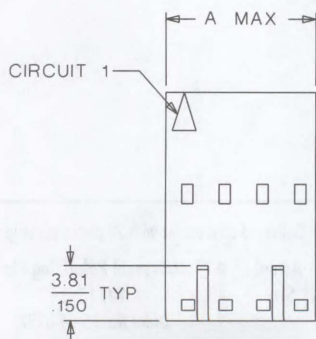
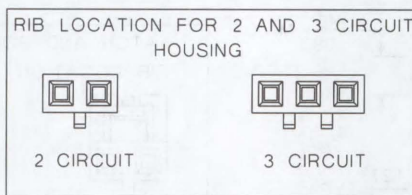
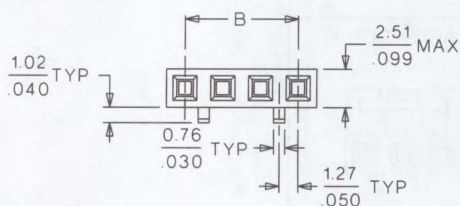
Mates With: 70004 and 70013 as connector assembly, and 70018, 70022 and 70104 as pin assembly

Use With: 70021, 70058 and 71851 crimp terminals

Designed In: Inches

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Note: The circuit 1 indicator for the 70066D will be superseded by the circuit 1 indicator of the 70004 and 70013 interim clips

Delivered on a carrier with 20 pieces per strip.

Actual Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 50-57-9302	5.05 (.199)	2.54 (.100)
3	• 50-57-9303	7.59 (.299)	5.08 (.200)
4	• 50-57-9304	10.13 (.399)	7.62 (.300)
5	• 50-57-9305	12.67 (.499)	10.16 (.400)
6	• 50-57-9306	15.21 (.599)	12.70 (.500)
7	• 50-57-9307	17.75 (.699)	15.24 (.600)
8	• 50-57-9308	20.29 (.799)	17.78 (.700)
9	• 50-57-9309	22.83 (.899)	20.32 (.800)
10	• 50-57-9310	25.37 (.999)	22.86 (.900)
11	• 50-57-9311	27.91 (1.099)	25.40 (1.000)
12	• 50-57-9312	30.45 (1.199)	27.94 (1.100)
13	• 50-57-9313	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 50-57-9314	35.53 (1.399)	33.02 (1.300)
15	• 50-57-9315	38.07 (1.499)	35.56 (1.400)
16	• 50-57-9316	40.61 (1.599)	38.10 (1.500)
17	• 50-57-9317	43.15 (1.699)	40.64 (1.600)
18	• 50-57-9318	45.69 (1.799)	43.18 (1.700)
19	• 50-57-9319	48.23 (1.899)	45.72 (1.800)
20	• 50-57-9320	50.77 (1.999)	48.26 (1.900)
21	• 50-57-9321	53.31 (2.099)	50.80 (2.000)
22	• 50-57-9322	55.85 (2.199)	53.34 (2.100)
23	• 50-57-9323	58.39 (2.299)	55.88 (2.200)
24	• 50-57-9324	60.93 (2.399)	58.42 (2.300)
25	• 50-57-9325	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Positive latch secures housing to locking crown of mating header or panel mount
- Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage
- Front ribs prevent contact damage when unmating the connector from a header; the housing cannot be twisted off pins

Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

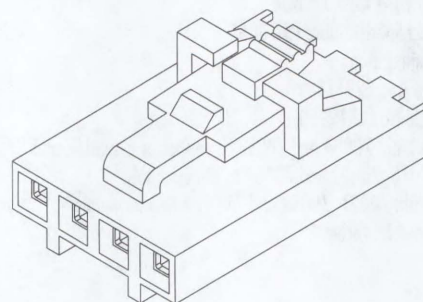
SL™

Crimp Housing

70066

Single Row

Version G, Positive Latch



2.54mm (.100") Pitch

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

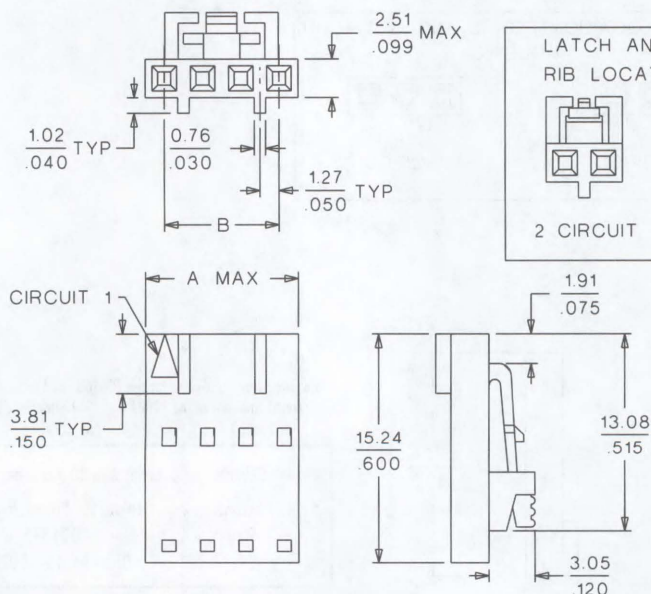
Mates With: 70018, 70107A/B, 70541, 70543, 70545,
70551, 70553, 70555 and 70634

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 50-57-9402	5.05 (.199)	2.54 (.100)
3	• 50-57-9403	7.59 (.299)	5.08 (.200)
4	• 50-57-9404	10.13 (.399)	7.62 (.300)
5	• 50-57-9405	12.67 (.499)	10.16 (.400)
6	• 50-57-9406	15.21 (.599)	12.70 (.500)
7	• 50-57-9407	17.75 (.699)	15.24 (.600)
8	• 50-57-9408	20.29 (.799)	17.78 (.700)
9	• 50-57-9409	22.83 (.899)	20.32 (.800)
10	• 50-57-9410	25.37 (.999)	22.86 (.900)
11	• 50-57-9411	27.91 (1.099)	25.40 (1.000)
12	• 50-57-9412	30.45 (1.199)	27.94 (1.100)
13	• 50-57-9413	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 50-57-9414	35.53 (1.399)	33.02 (1.300)
15	• 50-57-9415	38.07 (1.499)	35.56 (1.400)
16	• 50-57-9416	40.61 (1.599)	38.10 (1.500)
17	• 50-57-9417	43.15 (1.699)	40.64 (1.600)
18	• 50-57-9418	45.69 (1.799)	43.18 (1.700)
19	• 50-57-9419	48.23 (1.899)	45.72 (1.800)
20	• 50-57-9420	50.77 (1.999)	48.26 (1.900)
21	• 50-57-9421	53.31 (2.099)	50.80 (2.000)
22	• 50-57-9422	55.85 (2.199)	53.34 (2.100)
23	• 50-57-9423	58.39 (2.299)	55.88 (2.200)
24	• 50-57-9424	60.93 (2.399)	58.42 (2.300)
25	• 50-57-9425	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Stackable end-to-end
- Polarized latching ribs mate with Molex KK® series .100" pitch friction lock headers

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 6373 and 7478

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



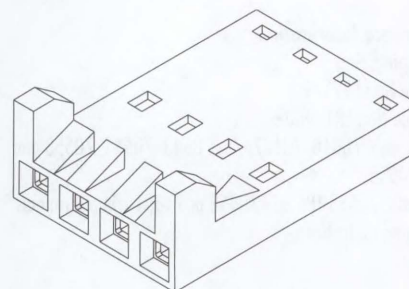
2.54mm (.100") Pitch

SL™

Crimp Housing

70066

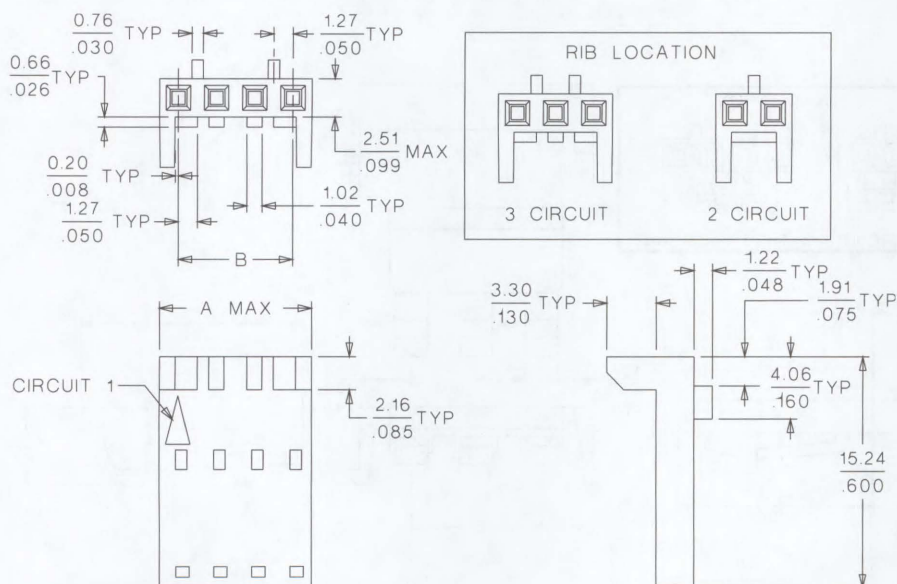
**Single Row
Version H**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

**Actual
Size**



**Universal Polarizing Pin
40713-1**

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 50-57-9502	5.05 (.199)	2.54 (.100)
3	• 50-57-9503	7.59 (.299)	5.08 (.200)
4	• 50-57-9504	10.13 (.399)	7.62 (.300)
5	• 50-57-9505	12.67 (.499)	10.16 (.400)
6	• 50-57-9506	15.21 (.599)	12.70 (.500)
7	• 50-57-9507	17.75 (.699)	15.24 (.600)
8	• 50-57-9508	20.29 (.799)	17.78 (.700)
9	• 50-57-9509	22.83 (.899)	20.32 (.800)
10	• 50-57-9510	25.37 (.999)	22.86 (.900)
11	• 50-57-9511	27.91 (1.099)	25.40 (1.000)
12	• 50-57-9512	30.45 (1.199)	27.94 (1.100)
13	• 50-57-9513	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 50-57-9514	35.53 (1.399)	33.02 (1.300)
15	• 50-57-9515	38.07 (1.499)	35.56 (1.400)
16	• 50-57-9516	40.61 (1.599)	38.10 (1.500)
17	• 50-57-9517	43.15 (1.699)	40.64 (1.600)
18	• 50-57-9518	45.69 (1.799)	43.18 (1.700)
19	• 50-57-9519	48.23 (1.899)	45.72 (1.800)
20	• 50-57-9520	50.77 (1.999)	48.26 (1.900)
21	• 50-57-9521	53.31 (2.099)	50.80 (2.000)
22	• 50-57-9522	55.85 (2.199)	53.34 (2.100)
23	• 50-57-9523	58.39 (2.299)	55.88 (2.220)
24	• 50-57-9524	60.93 (2.399)	58.42 (2.300)
25	• 50-57-9525	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Optimizes terminal-to-housing retention
- Virtually eliminates terminal backout when TPA is locked into place
- Upon seating TPA, audible click denotes system activation
- White/black color contrast provides easy identification of TPA system
- Positive locking latch secures housing to mating connector
- Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage

Reference Information

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates with: 70018, 70107A/B, 70543, 70545, 70553 and 70555

Use with: 73838 TPA and 70058 or 71851 crimp terminals

Designed In: Inches

Physical

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

TPA: White glass-filled polyester, UL 94V-0

Operating Temperature: -40 to +105°C



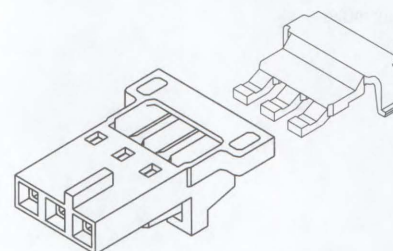
2.54mm (.100") Pitch

SL™

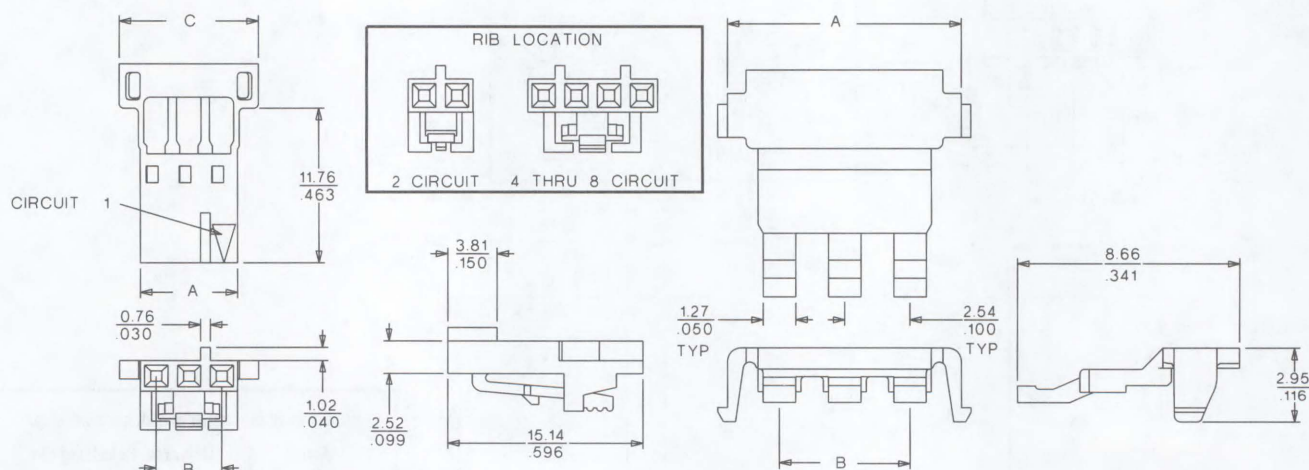
Crimp Housing

70066/73838

Single Row
Version N, TPA
with Positive Latch



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	70066 Version N TPA Crimp Housing				73838 TPA		
	Order No	Dimension			Order No.	Dimension	
		A	B	C		A	B
2	50-57-9702	5.00 (.197)	2.54 (.100)	8.26 (.325)	73838-0002	6.58 (.259)	2.54 (.100)
3	50-57-9703	7.54 (.297)	5.08 (.200)	10.80 (.425)	73838-0003	9.12 (.359)	5.08 (.200)
4	50-57-9704	10.08 (.397)	7.62 (.300)	13.34 (.525)	73838-0004	11.66 (.459)	7.62 (.300)
5	50-57-9705	12.62 (.497)	10.16 (.400)	15.88 (.625)	73838-0005	14.20 (.559)	10.16 (.400)
6	50-57-9706	15.16 (.597)	12.70 (.500)	18.42 (.725)	73838-0006	16.74 (.659)	12.70 (.500)
7	50-57-9707	17.70 (.697)	15.24 (.600)	20.96 (.825)	73838-0007	19.28 (.759)	15.24 (.600)
8	50-57-9708	20.24 (.797)	17.78 (.700)	23.50 (.925)	73838-0008	21.82 (.899)	17.78 (.700)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 54 circuits
- End-to-end and side-to-side stackable for dual row connections to a 2.54mm (.100") pitch grid pin field

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 8624, 8723, 8724, 70029, 70203, 70204, 70227, 70260, 70280, 70287, 70567, 70568, 71308 and 71349 Molex dual row headers

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

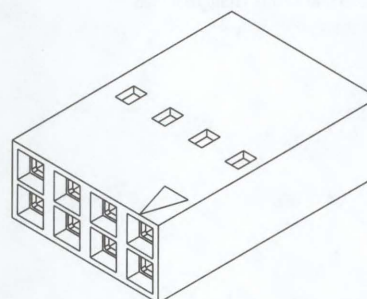
SL™

Crimp Housing

70450

Dual Row

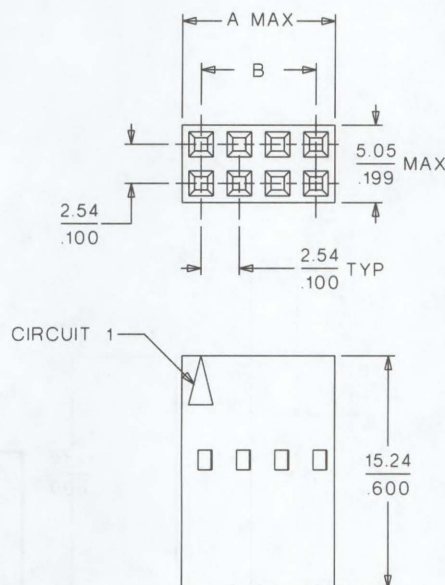
Version A, Nonpolarized



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	• 22-55-2041	5.05 (.199)	2.54 (.100)
6	• 22-55-2061	7.59 (.299)	5.08 (.200)
8	• 22-55-2081	10.13 (.399)	7.62 (.300)
10	• 22-55-2101	12.67 (.499)	10.16 (.400)
12	• 22-55-2121	15.21 (.599)	12.70 (.500)
14	• 22-55-2141	17.75 (.699)	15.24 (.600)
16	• 22-55-2161	20.29 (.799)	17.78 (.700)
18	• 22-55-2181	22.83 (.899)	20.32 (.800)
20	• 22-55-2201	25.37 (.999)	22.86 (.900)
22	• 22-55-2221	27.91 (1.099)	25.40 (1.000)
24	• 22-55-2241	30.45 (1.199)	27.94 (1.100)
26	• 22-55-2261	32.99 (1.299)	30.48 (1.200)
28	• 22-55-2281	35.53 (1.399)	33.02 (1.300)

Circuits	Order No.	Dimension	
		A	B
30	• 22-55-2301	38.07 (1.499)	35.56 (1.400)
32	• 22-55-2321	40.61 (1.599)	38.10 (1.500)
34	• 22-55-2341	43.15 (1.699)	40.64 (1.600)
36	• 22-55-2361	45.69 (1.799)	43.18 (1.700)
38	• 22-55-2381	48.23 (1.899)	45.72 (1.800)
40	• 22-55-2401	50.77 (1.999)	48.26 (1.900)
42	• 22-55-2421	53.31 (2.099)	50.80 (2.000)
44	• 22-55-2441	55.85 (2.199)	53.34 (2.100)
46	• 22-55-2461	58.39 (2.299)	55.88 (2.200)
48	• 22-55-2481	60.93 (2.399)	58.42 (2.300)
50	• 22-55-2501	63.47 (2.499)	60.96 (2.400)
52	• 22-55-2521	66.01 (2.599)	63.50 (2.500)
54	• 22-55-2541	68.55 (2.699)	66.04 (2.600)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Polarized to mate with dual row, low profile shrouded headers

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70246, 70247, 87256 and 87257

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

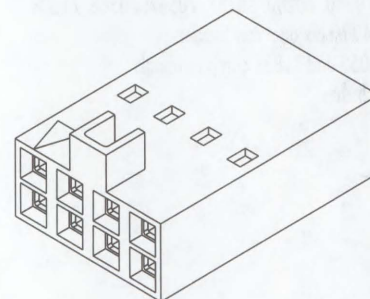
SL™

Crimp Housing

70450

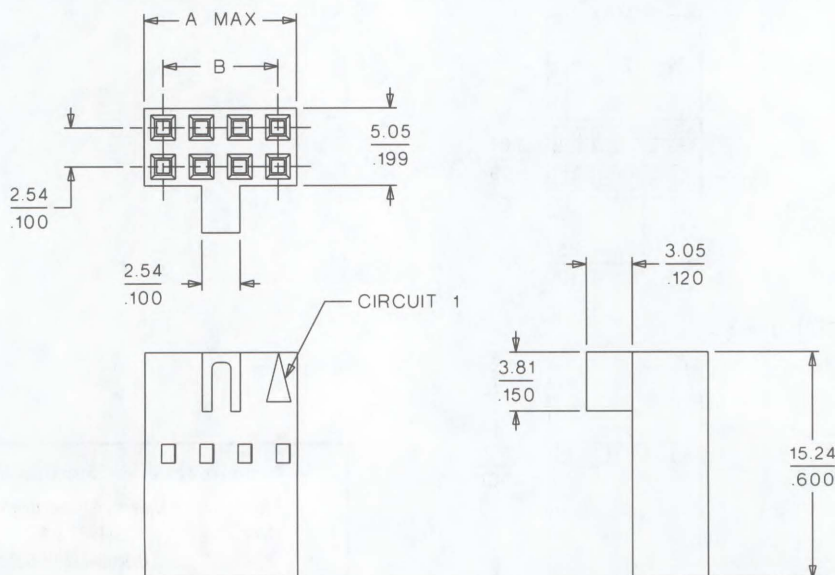
Dual Row

Version B, Polarized



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Note: The circuit 1 indicator for the 70450C will be superseded by the circuit 1 indicator of the 70004 and 70013 interim clips

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	• 22-55-2042	5.05 (.199)	2.54 (.100)
6	• 22-55-2062	7.59 (.299)	5.08 (.200)
8	• 22-55-2082	10.13 (.399)	7.62 (.300)
10	• 22-55-2102	12.67 (.499)	10.16 (.400)
12	• 22-55-2122	15.21 (.599)	12.70 (.500)
14	• 22-55-2142	17.75 (.699)	15.24 (.600)
16	• 22-55-2162	20.29 (.799)	17.78 (.700)
18	• 22-55-2182	22.83 (.899)	20.32 (.800)
20	• 22-55-2202	25.37 (.999)	22.86 (.900)
22	• 22-55-2222	27.91 (1.099)	25.40 (1.000)
24	• 22-55-2242	30.45 (1.199)	27.94 (1.100)
26	• 22-55-2262	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
28	• 22-55-2282	35.53 (1.399)	33.02 (1.300)
30	• 22-55-2302	38.07 (1.499)	35.56 (1.400)
32	• 22-55-2322	40.61 (1.599)	38.10 (1.500)
34	• 22-55-2342	43.15 (1.699)	40.64 (1.600)
36	• 22-55-2362	45.69 (1.799)	43.18 (1.700)
38	• 22-55-2382	48.23 (1.899)	45.72 (1.800)
40	• 22-55-2402	50.77 (1.999)	48.26 (1.900)
42	• 22-55-2422	53.31 (2.099)	50.80 (2.000)
44	• 22-55-2442	55.85 (2.199)	53.34 (2.100)
46	• 22-55-2462	58.39 (2.299)	55.88 (2.200)
48	• 22-55-2482	60.93 (2.399)	58.42 (2.300)
50	• 22-55-2502	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Designed to be used within 70013 dual row interim clip as a connector assembly or 70022 dual row panel mount as a pin assembly
- End-to-end stackable
- Back ribs maintain position of connector housings in interim clip and panel mount, and prevent lateral movement when another housing is removed

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70013 and 70022

Use With: 70021, 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch704

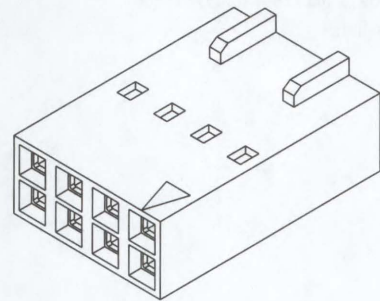
SL™

Crimp Housing

70450

Dual Row

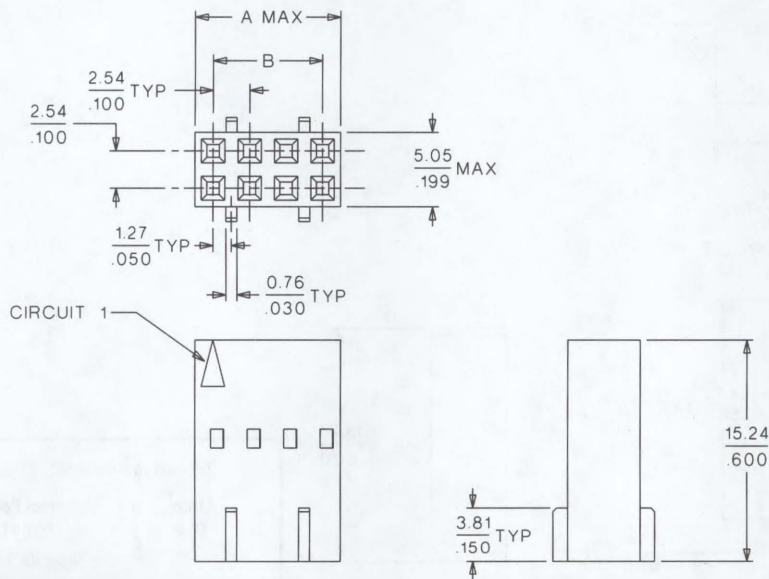
Version C, Back Ribs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	• 22-55-2043	5.05 (.199)	2.54 (.100)
6	• 22-55-2063	7.59 (.299)	5.08 (.200)
8	• 22-55-2083	10.13 (.399)	7.62 (.300)
10	• 22-55-2103	12.67 (.499)	10.16 (.400)
12	• 22-55-2123	15.21 (.599)	12.70 (.500)
14	• 22-55-2143	17.75 (.699)	15.24 (.600)
16	• 22-55-2163	20.29 (.799)	17.78 (.700)
18	• 22-55-2183	22.83 (.899)	20.32 (.800)
20	• 22-55-2203	25.37 (.999)	22.86 (.900)
22	• 22-55-2223	27.91 (1.099)	25.40 (1.000)
24	• 22-55-2243	30.45 (1.199)	27.94 (1.100)
26	• 22-55-2263	32.99 (1.299)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
28	• 22-55-2283	35.53 (1.399)	33.02 (1.300)
30	• 22-55-2303	38.07 (1.499)	35.56 (1.400)
32	• 22-55-2323	40.61 (1.599)	38.10 (1.500)
34	• 22-55-2343	43.15 (1.699)	40.64 (1.600)
36	• 22-55-2363	45.69 (1.799)	43.18 (1.700)
38	• 22-55-2383	48.23 (1.899)	45.72 (1.800)
40	• 22-55-2403	50.77 (1.999)	48.26 (1.900)
42	• 22-55-2423	53.31 (2.099)	50.80 (2.000)
44	• 22-55-2443	55.85 (2.199)	53.34 (2.100)
46	• 22-55-2463	58.39 (2.299)	55.88 (2.200)
48	• 22-55-2483	60.93 (2.399)	58.42 (2.300)
50	• 22-55-2503	63.47 (2.499)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Designed to mate with industry standard headers utilizing short latch/eject levers

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: QF-50 Headers

Use With: 70058 and 71851 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

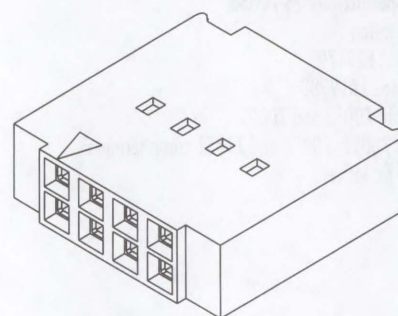
SL™

Crimp Housing

70450

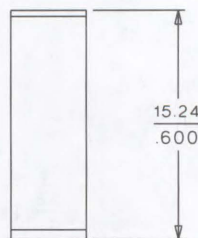
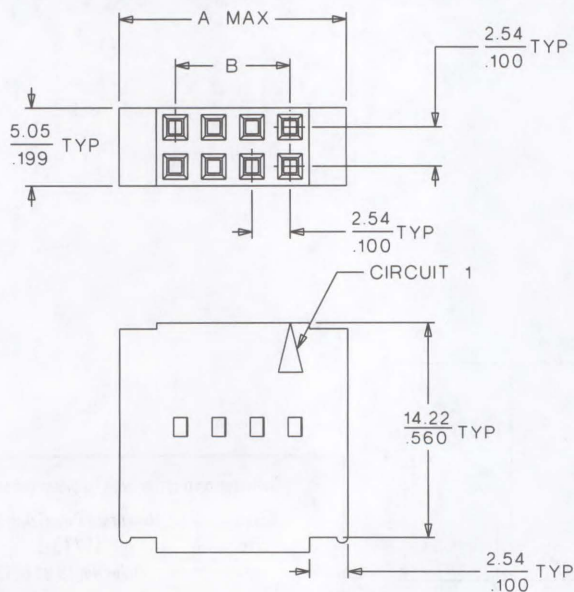
Dual Row

Version D



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	• 22-55-3040	10.13 (.399)	2.54 (.100)
6	• 22-55-3060	12.67 (.499)	5.08 (.200)
8	• 22-55-3080	15.21 (.599)	7.62 (.300)
10	• 22-55-3100	17.75 (.699)	10.16 (.400)
12	• 22-55-3120	20.29 (.799)	12.70 (.500)
14	• 22-55-3140	22.83 (.899)	15.24 (.600)
16	• 22-55-3160	25.37 (.999)	17.78 (.700)
18	• 22-55-3180	27.91 (1.099)	20.32 (.800)
20	• 22-55-3200	30.45 (1.199)	22.86 (.900)
22	• 22-55-3220	32.99 (1.299)	25.40 (1.000)
24	• 22-55-3240	35.53 (1.399)	27.94 (1.100)
26	• 22-55-3260	38.07 (1.499)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
28	• 22-55-3280	40.61 (1.599)	33.02 (1.300)
30	• 22-55-3300	43.15 (1.699)	35.56 (1.400)
32	• 22-55-3320	45.69 (1.799)	38.10 (1.500)
34	• 22-55-3340	48.23 (1.899)	40.64 (1.600)
36	• 22-55-3360	50.77 (1.999)	43.18 (1.700)
38	• 22-55-3380	53.31 (2.099)	45.72 (1.800)
40	• 22-55-3400	55.85 (2.199)	48.26 (1.900)
42	• 22-55-3420	58.39 (2.299)	50.80 (2.000)
44	• 22-55-3440	60.93 (2.399)	53.34 (2.100)
46	• 22-55-3460	63.47 (2.499)	55.88 (2.200)
48	• 22-55-3480	66.01 (2.599)	58.42 (2.300)
50	• 22-55-3500	68.55 (2.699)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Designed to mate with industry standard headers utilizing short latch/eject levers

Reference Information

Product Specification: PS-70058
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: QF-50 Latching Headers
 Use With: 70058 and 71851 crimp terminals
 Designed In: Inches

Physical

Housing: Black glass-filled polyester, UL 94V-0
 Operating Temperature: -40 to +105°C



2.54mm (.100")

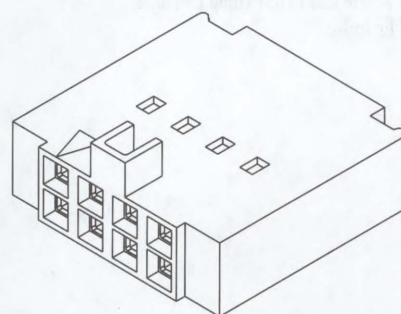
SL™

Crimp Housing

70450

Dual Row

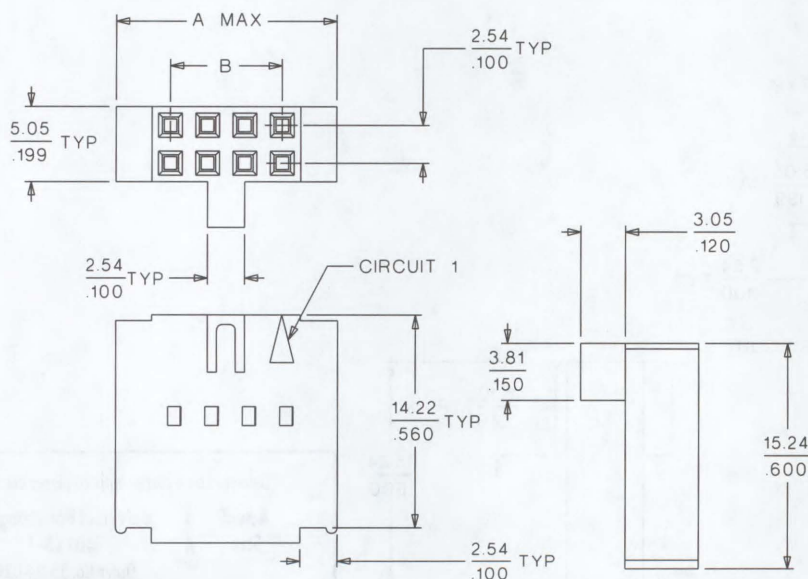
Version E



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
 40713-1
 Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
4	• 22-55-3041	10.13 (.399)	2.54 (.100)
6	• 22-55-3061	12.67 (.499)	5.08 (.200)
8	• 22-55-3081	15.21 (.599)	7.62 (.300)
10	• 22-55-3101	17.75 (.699)	10.16 (.400)
12	• 22-55-3121	20.29 (.799)	12.70 (.500)
14	• 22-55-3141	22.83 (.899)	15.24 (.600)
16	• 22-55-3161	25.37 (.999)	17.78 (.700)
18	• 22-55-3181	27.91 (1.099)	20.32 (.800)
20	• 22-55-3201	30.45 (1.199)	22.86 (.900)
22	• 22-55-3221	32.99 (1.299)	25.40 (1.000)
24	• 22-55-3241	35.53 (1.399)	27.94 (1.100)
26	• 22-55-3261	38.07 (1.499)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
28	• 22-55-3281	40.61 (1.599)	33.02 (1.300)
30	• 22-55-3301	43.15 (1.699)	35.56 (1.400)
32	• 22-55-3321	45.69 (1.799)	38.10 (1.500)
34	• 22-55-3341	48.23 (1.899)	40.64 (1.600)
36	• 22-55-3361	50.77 (1.999)	43.18 (1.700)
38	• 22-55-3381	53.31 (2.099)	45.72 (1.800)
40	• 22-55-3401	55.85 (2.199)	48.26 (1.900)
42	• 22-55-3421	58.39 (2.299)	50.80 (2.000)
44	• 22-55-3441	60.93 (2.399)	53.34 (2.100)
46	• 22-55-3461	63.47 (2.499)	55.88 (2.200)
48	• 22-55-3481	66.01 (2.599)	58.42 (2.300)
50	• 22-55-3501	68.55 (2.699)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors



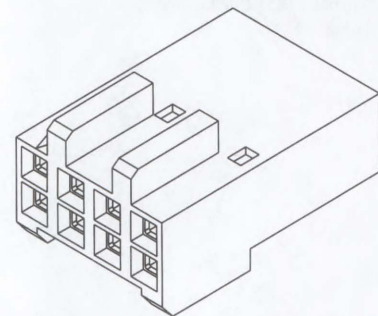
2.54mm (.100") Pitch

SL™

Crimp Housing

70450

Dual Row
Version F



FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 54 circuits
- Front guide ribs provide 180° polarization to mating connector

Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C

Reference Information

Product Specification: PS-70058

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 8723 and 8724

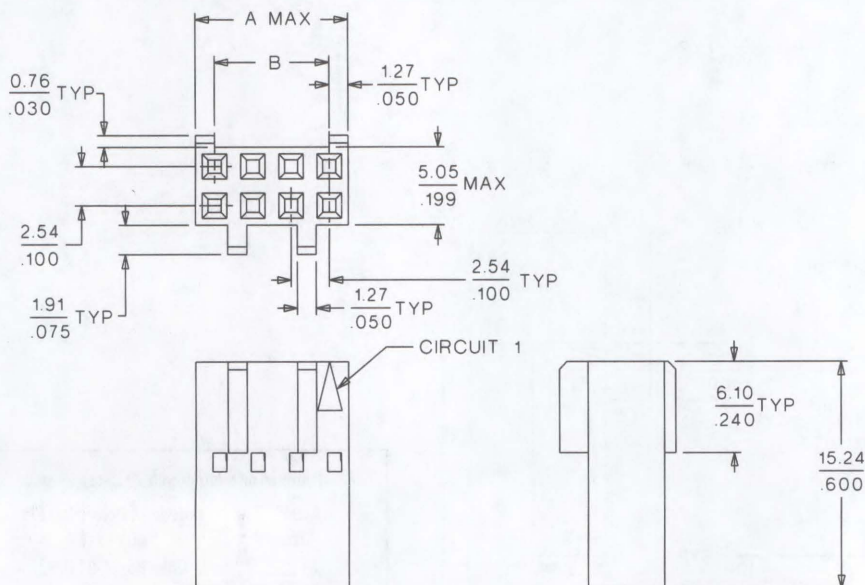
Use With: 70058 and 71851 crimp terminals

Designed In: Inches

2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	• 22-56-6067	7.59 (.299)	5.08 (.200)
8	• 22-56-6087	10.13 (.399)	7.62 (.300)
10	• 22-56-6107	12.67 (.499)	10.16 (.400)
12	• 22-56-6127	15.21 (.599)	12.70 (.500)
14	• 22-56-6147	17.75 (.699)	15.24 (.600)
16	• 22-56-6167	20.29 (.799)	17.78 (.700)
18	• 22-56-6187	22.83 (.899)	20.32 (.800)
20	• 22-56-6207	25.37 (.999)	22.86 (.900)
22	• 22-56-6227	27.91 (1.099)	25.40 (1.000)
24	• 22-56-6247	30.45 (1.199)	27.94 (1.100)
26	• 22-56-6267	32.99 (1.299)	30.48 (1.200)
28	• 22-56-6287	35.53 (1.399)	33.02 (1.300)
30	• 22-56-6307	38.07 (1.499)	35.56 (1.400)

Circuits	Order No.	Dimension	
		A	B
32	• 22-56-6327	40.61 (1.599)	38.10 (1.500)
34	• 22-56-6347	43.15 (1.699)	40.64 (1.600)
36	• 22-56-6367	45.69 (1.799)	43.18 (1.700)
38	• 22-56-6387	48.23 (1.899)	45.72 (1.800)
40	• 22-56-6407	50.77 (1.999)	48.26 (1.900)
42	• 22-56-6427	53.31 (2.099)	50.80 (2.000)
44	• 22-56-6447	55.85 (2.199)	53.34 (2.100)
46	• 22-56-6467	58.39 (2.299)	55.88 (2.200)
48	• 22-56-6487	60.93 (2.399)	58.42 (2.300)
50	• 22-56-6507	63.47 (2.499)	60.96 (2.400)
52	• 22-56-6527	66.01 (2.599)	63.50 (2.500)
54	• 22-56-6547	68.55 (2.699)	66.04 (2.600)

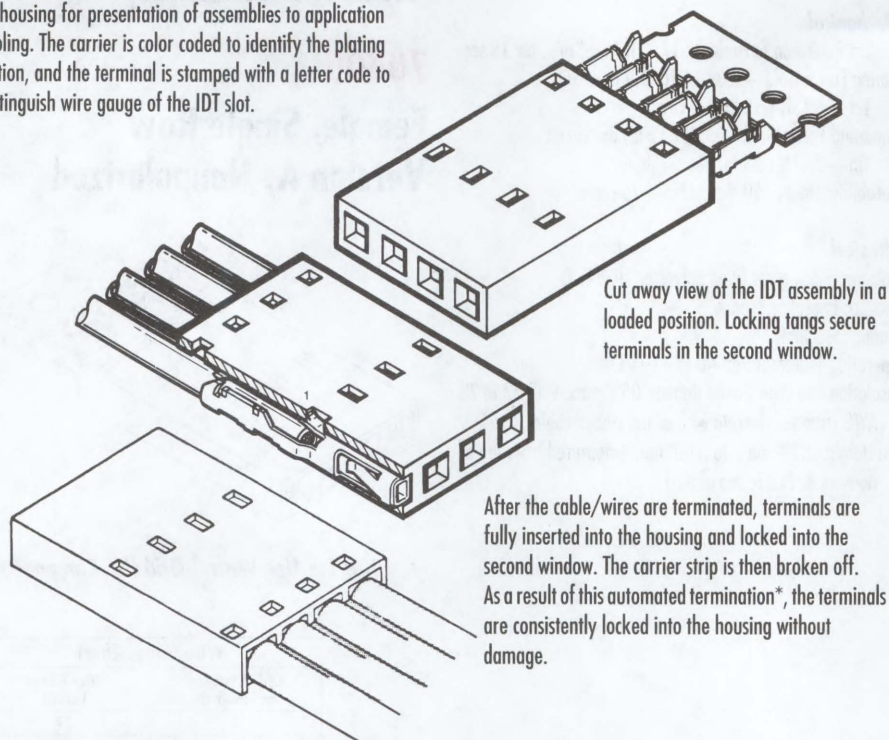
• US Standard Product, available through Molex franchised distributors



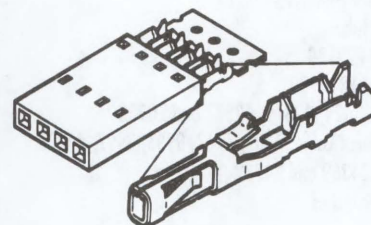
**2.54mm (.100") Pitch
SL™**

Specifications for Female Insulation Displacement Connector Assembly

Stamped female terminals are preloaded into first window of housing for presentation of assemblies to application tooling. The carrier is color coded to identify the plating option, and the terminal is stamped with a letter code to distinguish wire gauge of the IDT slot.



Five styles of single row IDT receptacle assemblies are available in 2 through 25 circuits. The female IDT terminal features a fully enclosed "box" design with dual beams to provide 2 points of contact.



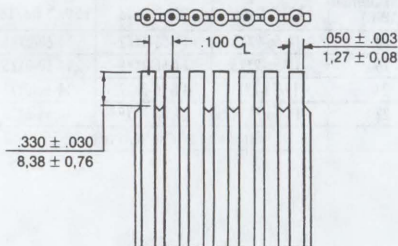
2.54mm (.100") Pitch

WIRE AND CABLE OPTIONS

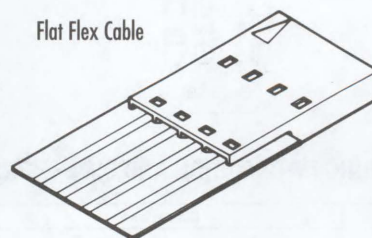
Recommended Molex Cable Engineering No. to use with 70400 series connectors:

Accepts round conductor flat cable from 28 to 24 AWG, with .053" max. outside insulation diameter 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389.

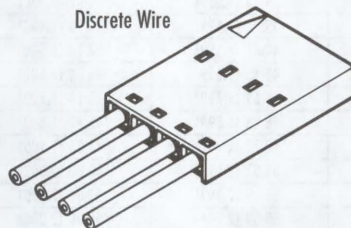
Notch Specification for Ribbon Cable



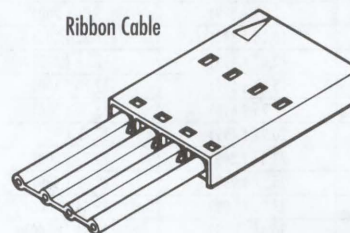
Flat Flex Cable



Discrete Wire



Ribbon Cable



* See Application Tooling section

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Preloaded, single piece construction allows for fully automated termination
- Packaged in plastic tubes to allow for automated manufacturing and to minimize product handling
- End-to-end and/or side-to-side stackable for single or dual row connections to a 2.54mm (.100") pitch grid pin field

Reference Information

Product Specification: PS-70040

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 8624, 42375, 42377 and 70203

Use With Molex Cable: 7307, 7767, 8996, 8997, 24226,

24241, 24369 and 24389

Designed In: Inches

Electrical

Voltage: 250V

Current: 1.2A—28 AWG; 1.8A—26 AWG

3.0A—24 AWG; 3.0A—22 AWG

Electrical (continued)

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb) min. for 15 sec

Mating Force: Gold—3.08N (.70 lb) per circuit;

Tin—4.15N (.93 lb) per circuit

Unmating Force: Gold—.65N (.15 lb) per circuit;

Tin—2.47N (.55 lb) per circuit

Durability: Gold—50 cycles; Tin—25 cycles

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Insulation and Wire Gauge Range: .053" max. with 22 to 28

AWG stranded discrete wire or flat ribbon cable

Pin Height: .320" max. to .200" min. (measured from top of housing or PCB to top of pin)



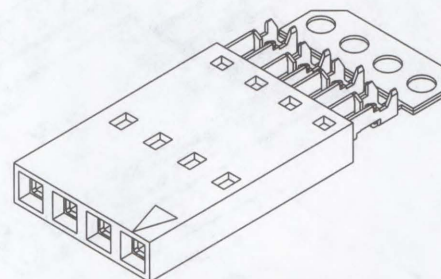
2.54mm (.100") Pitch

SL™

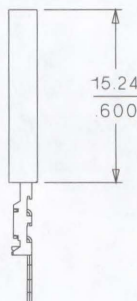
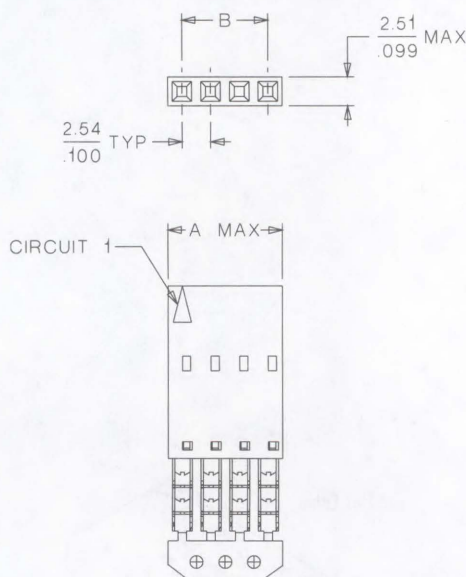
Insulation Displacement
Connector Assembly

70400

Female, Single Row
Version A, Nonpolarized



CATALOG DRAWING (FOR REFERENCE ONLY)



Not For Use With C-Grid III™ Components

Wire Gauge Chart

Code Stamped on Terminals	Wire Gauge (AWG)
A	24
B	26
C	28
D	22

Note: 2 circuit assemblies supplied as grouped pairs

Plating Code (Stripe on Carrier Strip)

Plating	Color
Tin/Lead	None
15μ" Gold	Yellow
30μ" Gold	Red

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	5.05 (.199)	2.54 (.100)
3	7.59 (.299)	5.08 (.200)
4	10.13 (.399)	7.62 (.300)
5	12.67 (.499)	10.16 (.400)
6	15.21 (.599)	12.70 (.500)
7	17.75 (.699)	15.24 (.600)
8	20.29 (.799)	17.78 (.700)
9	22.83 (.899)	20.32 (.800)
10	25.37 (.999)	22.86 (.900)
11	27.91 (1.099)	25.40 (1.000)
12	30.45 (1.199)	27.94 (1.100)
13	32.99 (1.299)	30.48 (1.200)

Circuits	Dimension	
	A	B
14	35.53 (1.399)	33.02 (1.300)
15	38.07 (1.499)	35.56 (1.400)
16	40.61 (1.599)	38.10 (1.500)
17	43.15 (1.699)	40.64 (1.600)
18	45.69 (1.799)	43.18 (1.700)
19	48.23 (1.899)	45.72 (1.800)
20	50.77 (1.999)	48.26 (1.900)
21	53.31 (2.099)	50.80 (2.000)
22	55.85 (2.199)	53.34 (2.100)
23	58.39 (2.299)	55.88 (2.200)
24	60.93 (2.399)	58.42 (2.300)
25	63.47 (2.499)	60.96 (2.400)

Wire Accommodation (AWG)	Order No.		
	15μ" Gold	30μ" Gold	150μ" Tin/Lead
28	14-56-2XX5	14-56-3XX2	14-60-0XX5
26	14-56-2XX3	14-56-2XX9	14-60-0XX3
24	• 14-56-2XX1	14-56-2XX7	14-60-0XX1
22	14-56-7XX4	14-56-7XX9	14-56-6XX9

Replace XX with no. of circuits, 02-25

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Preloaded, single piece construction allows for fully automated termination
- Packaged in plastic tubes to allow for automated manufacturing and to minimize product handling
- Front polarizing ribs prevent pin damage during disconnect; housing cannot be twisted off pins
- Mates with 70544, 70546, 70554 and 70556 polarized nonlatching headers (not in catalog)

Reference Information

Product Specification: PS-70400

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Use With Molex Cable: 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389

Designed In: Inches

Electrical

Voltage: 250V

Current: 1.2A—28 AWG; 1.8A—26 AWG

3.0A—24 AWG; 3.0A—22 AWG

Electrical (continued)

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb) min. for 15 sec

Mating Force: Gold—3.08N (.70 lb) per circuit;

Tin—4.15N (.93 lb) per circuit

Unmating Force: Gold—.65N (.15 lb) per circuit;

Tin—2.47N (.55 lb) per circuit

Durability: Gold—50 cycles; Tin—25 cycles

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Insulation and Wire Gauge Range: .053" max. with 22 to 28

AWG stranded discrete wire or flat ribbon cable

Pin Height: .320" max. to .200" min. (measured from top of housing or PCB to top of pin)



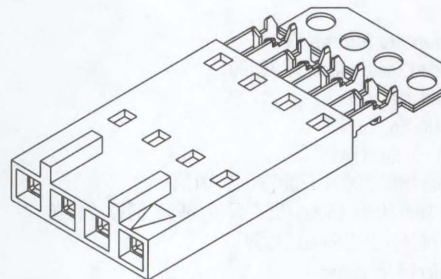
2.54mm (.100") Pitch

SL™

Insulation Displacement
Connector Assembly

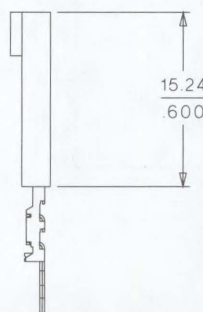
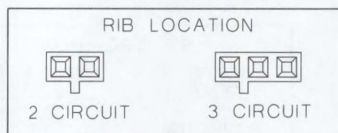
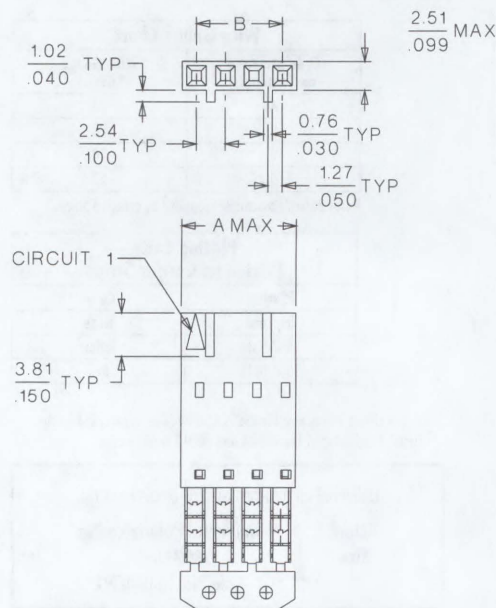
70400

Female, Single Row
Version C, Front Ribs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



Not For Use With C-Grid III™ Components

Wire Gauge Chart

Code Stamped on Terminals	Wire Gauge (AWG)
A	24
B	26
C	28
D	22

Note: 2 circuit assemblies supplied as grouped pairs

Plating Code (Stripe on Carrier Strip)

Plating	Color
Tin/Lead	None
15μ" Gold	Yellow
30μ" Gold	Red

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	5.05 (.199)	2.54 (.100)
3	7.59 (.299)	5.08 (.200)
4	10.13 (.399)	7.62 (.300)
5	12.67 (.499)	10.16 (.400)
6	15.21 (.599)	12.70 (.500)
7	17.75 (.699)	15.24 (.600)
8	20.29 (.799)	17.78 (.700)
9	22.83 (.899)	20.32 (.800)
10	25.37 (.999)	22.86 (.900)
11	27.91 (1.099)	25.40 (1.000)
12	30.45 (1.199)	27.94 (1.100)
13	32.99 (1.299)	30.48 (1.200)

Circuits	Dimension	
	A	B
14	35.53 (1.399)	33.02 (1.300)
15	38.07 (1.499)	35.56 (1.400)
16	40.61 (1.599)	38.10 (1.500)
17	43.15 (1.699)	40.64 (1.600)
18	45.69 (1.799)	43.18 (1.700)
19	48.23 (1.899)	45.72 (1.800)
20	50.77 (1.999)	48.26 (1.900)
21	53.31 (2.099)	50.80 (2.000)
22	55.85 (2.199)	53.34 (2.100)
23	58.39 (2.299)	55.88 (2.200)
24	60.93 (2.399)	58.42 (2.300)
25	63.47 (2.499)	60.96 (2.400)

Wire Accommodation (AWG)	Order No.		
	15μ" Gold	30μ" Gold	150μ" Tin/Lead
28	14-56-3XX8	14-56-4XX4	14-60-1XX1
26	14-56-3XX6	14-56-4XX2	14-60-0XX9
24	• 14-56-3XX5	14-56-4XX0	14-60-0XX7
22	14-56-7XX5	14-56-8XX0	14-56-7XX0

Replace XX with no. of circuits, 02-25

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Preloaded, single piece construction allows for fully automated termination
- Packaged in plastic tubes to allow for automated manufacturing and to minimize product handling
- Back ribs maintain position of connector assembly in clips and prevent lateral movement when another assembly is removed
- End-to-end stackable inside a single row interim clip to form a larger single row connector
- Back-to-back and end-to-end stackable inside a dual row interim clip to form a dual row connector

Reference Information

Product Specification: PS-70400

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70004, 70013 and 70104

Use With Molex Cable: 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389

Designed In: Inches

Electrical

Voltage: 250V

Current: 1.2A—28 AWG; 1.8A—26 AWG

3.0A—24 AWG; 3.0A—22 AWG

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb) min. for 15 sec

Mating Force: Gold—3.08N (.70 lb) per circuit;

Tin—4.15N (.93 lb) per circuit

Unmating Force: Gold—.65N (.15 lb) per circuit;

Tin—2.47N (.55 lb) per circuit

Durability: Gold—50 cycles; Tin—25 cycles

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Insulation and Wire Gauge Range: .053" max. with 22 to 28 AWG stranded discrete wire or flat ribbon cable

Pin Height: .320" max. to .200" min. (measured from top of housing or PCB to top of pin)



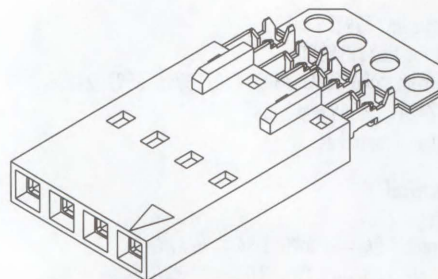
2.54mm (.100") Pitch

SL™

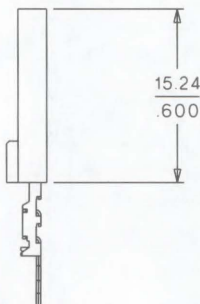
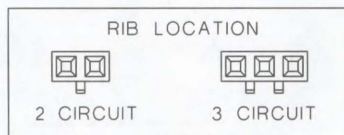
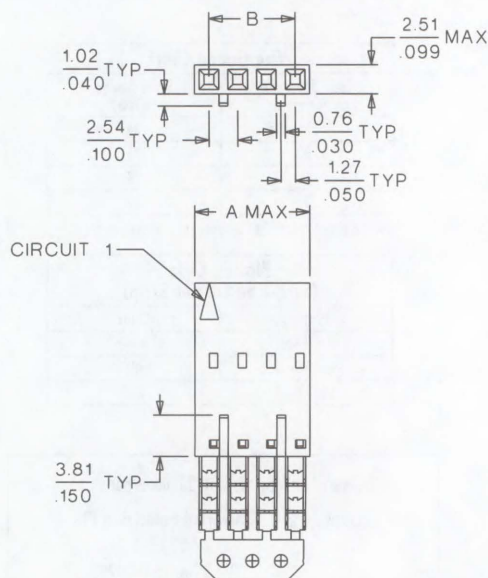
Insulation Displacement Connector Assembly

70400

Female, Single Row Version D, Back Ribs



CATALOG DRAWING (FOR REFERENCE ONLY)



Not For Use With C-Grid III™ Components

Wire Gauge Chart

Code Stamped on Terminals	Wire Gauge (AWG)
A	24
B	26
C	28
D	22

Note: 2 circuit assemblies supplied as grouped pairs

Plating Code (Stripe on Carrier Strip)

Plating	Color
Tin/Lead	None
15μ" Gold	Yellow
30μ" Gold	Red

Note: The circuit 1 indicator for the 70400D will be superseded by the circuit 1 indicator of the 70004 and 70013 interim clips

Delivered on a carrier with 20 pieces per strip.

Actual Size



Universal Polarizing Pin 40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	5.05 (.199)	2.54 (.100)
3	7.59 (.299)	5.08 (.200)
4	10.13 (.399)	7.62 (.300)
5	12.67 (.499)	10.16 (.400)
6	15.21 (.599)	12.70 (.500)
7	17.75 (.699)	15.24 (.600)
8	20.29 (.799)	17.78 (.700)
9	22.83 (.899)	20.32 (.800)
10	25.37 (.999)	22.86 (.900)
11	27.91 (1.099)	25.40 (1.000)
12	30.45 (1.199)	27.94 (1.100)
13	32.99 (1.299)	30.48 (1.200)

Circuits	Dimension	
	A	B
14	35.53 (1.399)	33.02 (1.300)
15	38.07 (1.499)	35.56 (1.400)
16	40.61 (1.599)	38.10 (1.500)
17	43.15 (1.699)	40.64 (1.600)
18	45.69 (1.799)	43.18 (1.700)
19	48.23 (1.899)	45.72 (1.800)
20	50.77 (1.999)	48.26 (1.900)
21	53.31 (2.099)	50.80 (2.000)
22	55.85 (2.199)	53.34 (2.100)
23	58.39 (2.299)	55.88 (2.200)
24	60.93 (2.399)	58.42 (2.300)
25	63.47 (2.499)	60.96 (2.400)

Wire Accommodation (AWG)	Order No.		
	15μ" Gold	30μ" Gold	150μ" Tin/Lead
28	14-56-3XX9	14-56-4XX5	14-60-1XX2
26	14-56-3XX7	14-56-4XX3	14-60-1XX0
24	14-56-3XX4	14-56-4XX1	14-60-0XX8
22	14-56-7XX6	14-56-8XX1	14-56-7XX1

Replace XX with no. of circuits, 02-25

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Preloaded, single piece construction allows for fully automated termination
- Packaged in plastic tubes to allow for automated manufacturing and to minimize product handling
- Positive latch secures connector to mating header or panel mount
- Front ribs prevent housing from being twisted off pins
- Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage

Reference Information

Product Specification: PS-70400

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70018, 70107-A, 70107-B, 70543, 70545, 70553 and 70555

Use With Molex Cable: 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389

Designed In: Inches

Electrical

Voltage: 250V

Current: 1.2A—28 AWG; 1.8A—26 AWG
3.0A—24 AWG; 3.0A—22 AWG

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retension to Housing: 17.79N (4 lb) min. for 15 sec

Mating Force: Gold—3.08N (.70 lb) per circuit;

Tin—4.15N (.93 lb) per circuit

Unmating Force: Gold—.65N (.15 lb) per circuit;

Tin—2.47N (.55 lb) per circuit

Durability: Gold—50 cycles; Tin—25 cycles

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Insulation and Wire Gauge Range: .053" max. with 22 to 28 AWG stranded discrete wire or flat ribbon cable

Pin Height: .320" max. to .200" min. (measured from top of housing or PCB to top of pin)



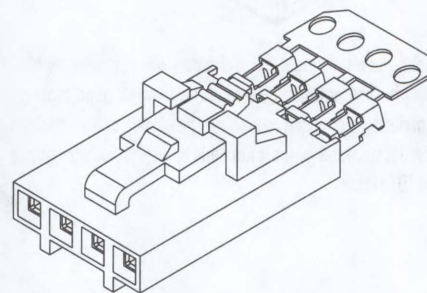
2.54mm (.100") Pitch

SL™

Insulation Displacement
Connector Assembly

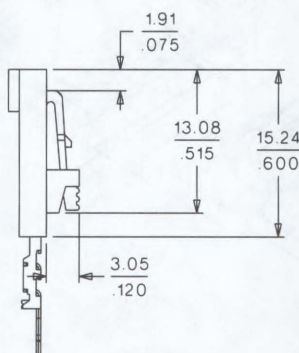
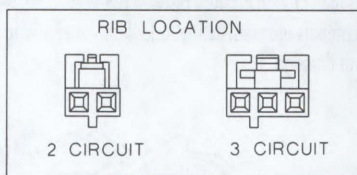
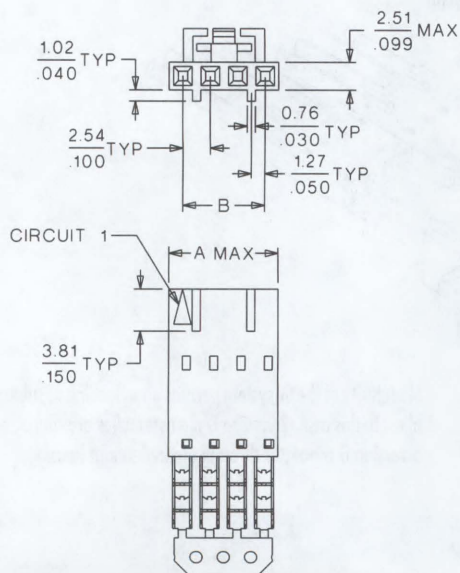
70400

Female, Single Row
Version G, Positive Latch



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



Not For Use With C-Grid III™ Components

Wire Gauge Chart

Code Stamped on Terminals	Wire Gauge (AWG)
A	24
B	26
C	28
D	22

Note: 2 circuit assemblies supplied as grouped pairs

Plating Code (Stripe on Carrier Strip)

Plating	Color
Tin/Lead	None
15μ" Gold	Yellow
30μ" Gold	Red

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	5.05 (1.99)	2.54 (1.00)
3	7.59 (2.99)	5.08 (2.00)
4	10.13 (3.99)	7.62 (3.00)
5	12.67 (4.99)	10.16 (4.00)
6	15.21 (5.99)	12.70 (5.00)
7	17.75 (6.99)	15.24 (6.00)
8	20.29 (7.99)	17.78 (7.00)
9	22.83 (8.99)	20.32 (8.00)
10	25.37 (9.99)	22.86 (9.00)
11	27.91 (10.99)	25.40 (1.000)
12	30.45 (1.199)	27.94 (1.100)
13	32.99 (1.299)	30.48 (1.200)

Circuits	Dimension	
	A	B
14	35.53 (1.399)	33.02 (1.300)
15	38.07 (1.499)	35.56 (1.400)
16	40.61 (1.599)	38.10 (1.500)
17	43.15 (1.699)	40.64 (1.600)
18	45.69 (1.799)	43.18 (1.700)
19	48.23 (1.899)	45.72 (1.800)
20	50.77 (1.999)	48.26 (1.900)
21	53.31 (2.099)	50.80 (2.000)
22	55.85 (2.199)	53.34 (2.100)
23	58.39 (2.299)	55.88 (2.200)
24	60.93 (2.399)	58.42 (2.300)
25	63.47 (2.499)	60.96 (2.400)

Wire Accommodation (AWG)	Order No.		
	15μ" Gold	30μ" Gold	150μ" Tin/Lead
28	14-56-2XX6	14-56-3XX3	14-60-0XX6
26	14-56-2XX4	14-56-3XX1	14-60-0XX4
24	• 14-56-2XX2	14-56-2XX8	14-60-0XX2
22	14-56-7XX7	14-56-8XX2	14-56-7XX2

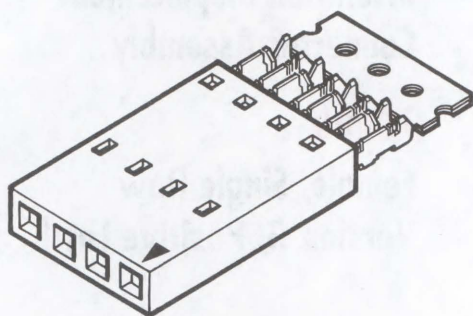
Replace XX with no. of circuits, 02-25

• US Standard Product, available through Molex franchised distributors

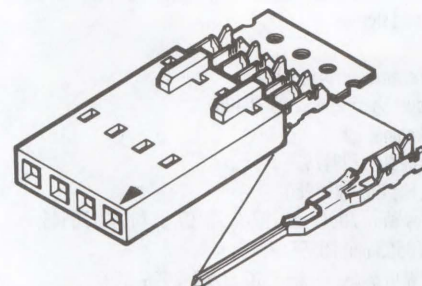
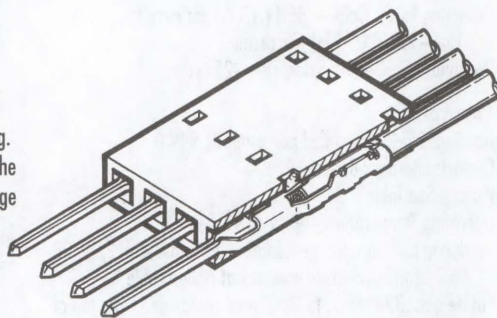
Specifications for Male Insulation Displacement Connector Assembly

C

2.54mm (.100") Pitch

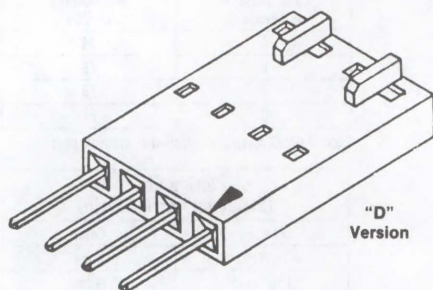


Stamped male terminals are preloaded into first window of housing for presentation of assemblies to application tooling. The carrier is color coded to identify the plating option, and the terminal is stamped with a letter code to distinguish wire gauge of the IDT slot.

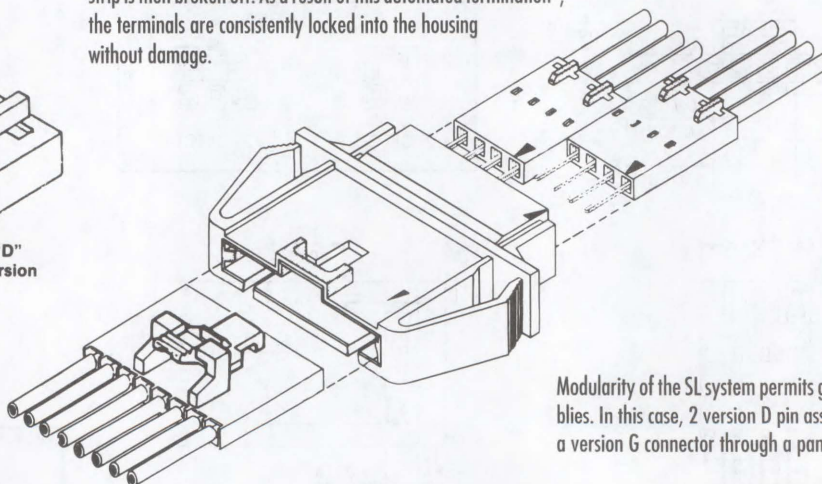


Shown: 70475 "D" Version Connector

After the cable/wires are terminated, terminals are fully inserted into the housing and locked into the second window. The carrier strip is then broken off. As a result of this automated termination*, the terminals are consistently locked into the housing without damage.



"D"
Version

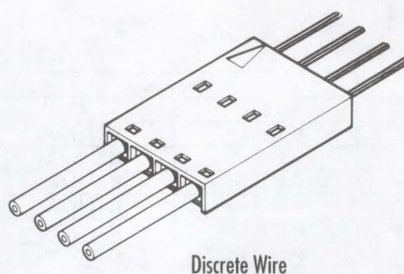
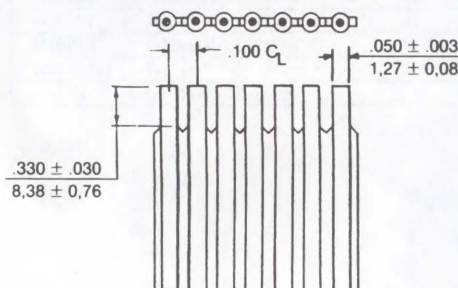


Modularity of the SL system permits gang loading of subassemblies. In this case, 2 version D pin assemblies are connected to a version G connector through a panel mount housing.

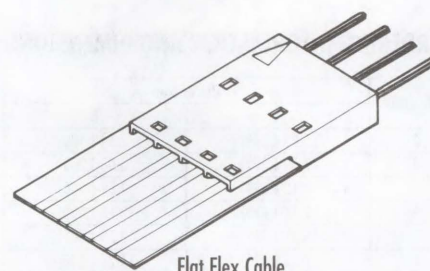
WIRE AND CABLE OPTIONS

Recommended Molex Cable Engineering No. to use with 70400 Series connectors: 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389

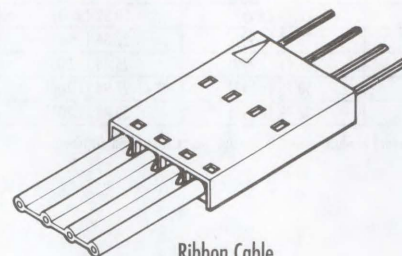
Notch Specification for Ribbon Cable



Discrete Wire



Flat Flex Cable



Ribbon Cable

* See Application Tooling section

FEATURES AND SPECIFICATIONS

Features and Benefit

- Sizes 2 to 25 circuits
- Preloaded, single-piece construction allows for fully automated termination
- Packaged in plastic tubes to allow for automated manufacturing and to minimize product handling
- Back ribs maintain position of connector assembly in clips; prevents lateral movement when another assembly is removed
- End-to-end stackable inside a single row panel mount connector to form a larger single row connector
- Back-to-back and end-to-end stackable inside a dual row panel mount connector to form a dual row connector

Reference Information

Product Specification: PS-70475

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70018, 70022 and 70104

Use With Molex Cable: 7307, 7767, 8996, 8997, 24226, 24241, 24369 and 24389

Designed In: Inches

Electrical

Voltage: 250V

Current: 1.2A—28 AWG; 1.8A—26 AWG
3.0A—24 AWG; 3.0A—22 AWG

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb) min. for 15 sec

Mating Force: Gold—3.08N (.70 lb) per circuit;

Tin—4.15N (.93 lb) per circuit

Unmating Force: Gold—.65N (.15 lb) per circuit;

Tin—2.47N (.55 lb) per circuit

Durability: Gold—50 cycles; Tin—25 cycles

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

Insulation and Wire Gauge Range: .053" max. with 22 to 28 AWG stranded discrete wire or flat ribbon cable

Pin Height: 300" max. to .280" min. (measured from top of housing or PCB to top of pin)



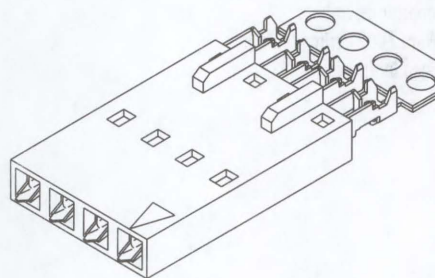
2.54mm (.100") Pitch

SL™

Insulation Displacement
Connector Assembly

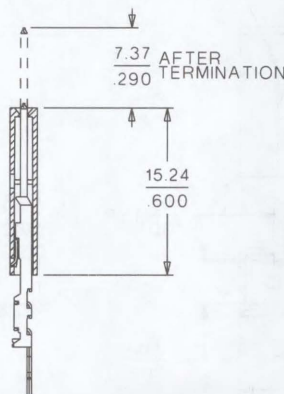
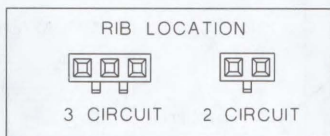
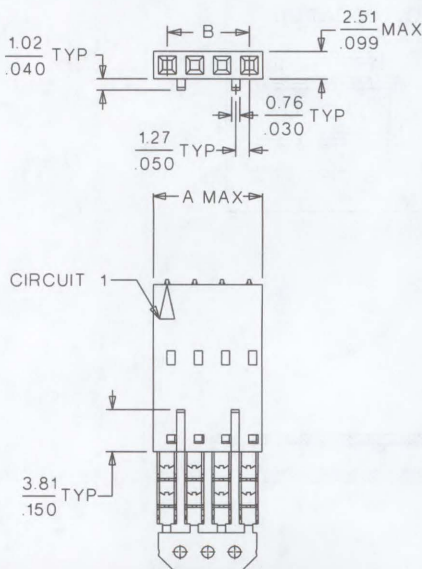
70475

Male, Single Row
Version D, Back Ribs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



Not For Use With C-Grid III™ Components

Wire Gauge Chart

Code Stamped on Terminals	Wire Gauge (AWG)
A	24
B	26
C	28
D	22

Note: 2 circuit housings are preloaded in pairs

Plating Code (Stripe on Carrier Strip)

Plating	Color
Tin/Lead	None
15μ" Gold	Yellow
30μ" Gold	Red

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	5.05 (.199)	2.54 (.100)
3	7.59 (.299)	5.08 (.200)
4	10.13 (.399)	7.62 (.300)
5	12.67 (.499)	10.16 (.400)
6	15.21 (.599)	12.70 (.500)
7	17.75 (.699)	15.24 (.600)
8	20.29 (.799)	17.78 (.700)
9	22.83 (.899)	20.32 (.800)
10	25.37 (.999)	22.86 (.900)
11	27.91 (1.099)	25.40 (1.000)
12	30.45 (1.199)	27.94 (1.100)
13	32.99 (1.299)	30.48 (1.200)

Circuits	Dimension	
	A	B
14	35.53 (1.399)	33.02 (1.300)
15	38.07 (1.499)	35.56 (1.400)
16	40.61 (1.599)	38.10 (1.500)
17	43.15 (1.699)	40.64 (1.600)
18	45.69 (1.799)	43.18 (1.700)
19	48.23 (1.899)	45.72 (1.800)
20	50.77 (1.999)	48.26 (1.900)
21	53.31 (2.099)	50.80 (2.000)
22	55.85 (2.199)	53.34 (2.100)
23	58.39 (2.299)	55.88 (2.200)
24	60.93 (2.399)	58.42 (2.300)
25	63.47 (2.499)	60.96 (2.400)

Wire Accommodation (AWG)	Order No.		
	15μ" Gold	30μ" Gold	150μ" Tin/Lead
28	14-44-21XX	14-44-49XX	14-45-18XX
26	14-44-16XX	14-44-29XX	14-45-06XX
24	• 14-44-12XX	14-44-25XX	14-45-02XX
22	14-44-53XX	14-44-54XX	14-44-52XX

Replace XX with no. of circuits, 02-25

• US Standard Product, available through Molex franchised distributors
Housing version D mates with female connectors when used in panel mount

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Used primarily for remote interconnections
- Locking crown secures positive latch to connector
- Polarization slots guide front ribs of mating connector to prevent pin damage

Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C



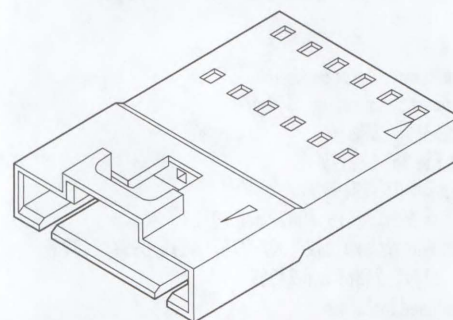
2.54mm (.100") Pitch

SL™

**Wire-to-Wire
Connector**

70107

**Single Row, Version A
Without Mounting Ears**



Reference Information

Product Specification: PS-70021

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

connector assemblies

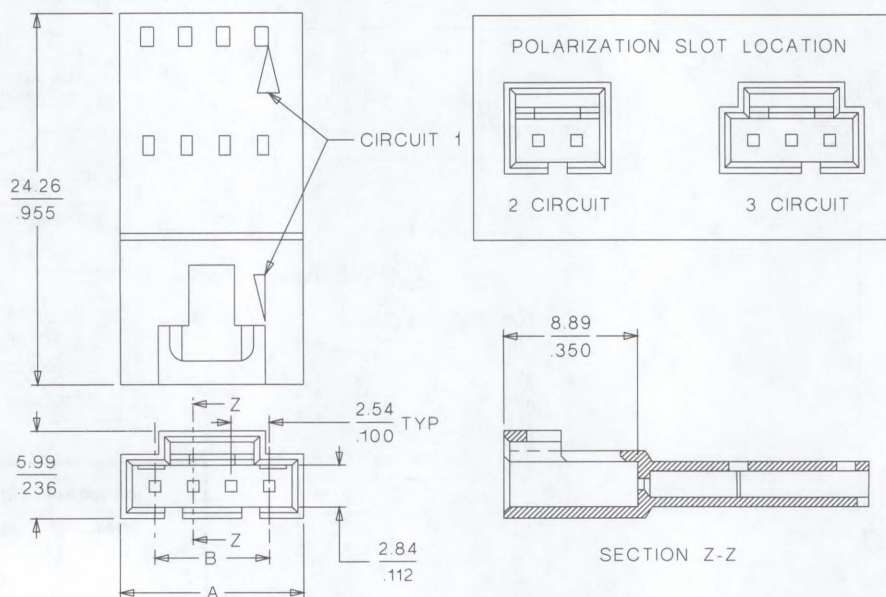
Use With: 70021 crimp terminals

Designed In: Inches

2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	• 70107-0001	7.11 (.280)	2.54 (.100)
3	• 70107-0002	9.65 (.380)	5.08 (.200)
4	• 70107-0003	12.19 (.480)	7.62 (.300)
5	• 70107-0004	14.73 (.580)	10.16 (.400)
6	• 70107-0005	17.27 (.680)	12.70 (.500)
7	• 70107-0006	19.81 (.780)	15.24 (.600)
8	• 70107-0007	22.35 (.880)	17.78 (.700)
9	• 70107-0008	24.89 (.980)	20.32 (.800)
10	• 70107-0009	27.43 (1.080)	22.86 (.900)
11	• 70107-0010	29.97 (1.180)	25.40 (1.000)
12	• 70107-0011	32.51 (1.280)	27.94 (1.100)
13	• 70107-0012	35.05 (1.380)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
14	• 70107-0013	37.59 (1.480)	33.02 (1.300)
15	• 70107-0014	40.13 (1.580)	33.56 (1.400)
16	• 70107-0015	42.67 (1.680)	38.10 (1.500)
17	• 70107-0016	45.21 (1.780)	40.64 (1.600)
18	• 70107-0017	47.75 (1.880)	43.18 (1.700)
19	• 70107-0018	50.29 (1.980)	45.72 (1.800)
20	• 70107-0019	52.83 (2.080)	48.26 (1.900)
21	• 70107-0020	55.37 (2.180)	50.80 (2.000)
22	• 70107-0021	57.91 (2.280)	53.34 (2.100)
23	• 70107-0022	60.45 (2.380)	55.88 (2.200)
24	• 70107-0023	62.99 (2.480)	58.42 (2.300)
25	• 70107-0024	65.53 (2.580)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Used primarily for remote interconnections
- Latching crown secures positive latch to connector
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Mounting ears for insertion into .030 to .090" thick panels

Reference Information

Product Specification: PS-70021

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G connector assemblies

Use With: 70021 crimp terminals

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

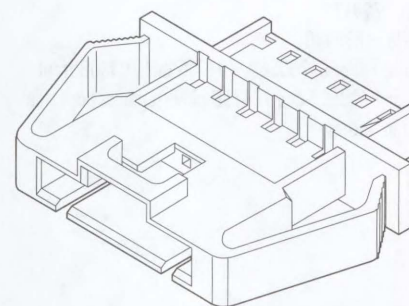
SL™

Wire-to-Wire

Panel Mount Connector

70107

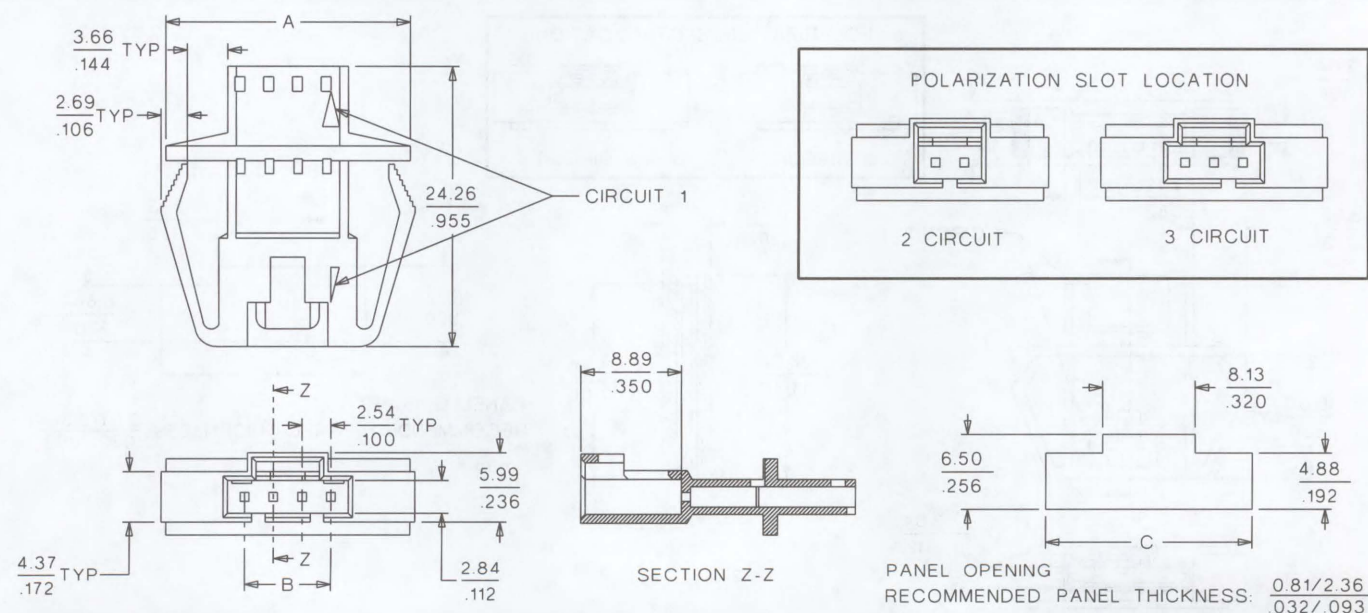
**Single Row, Version B
With Mounting Ears**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	Panel Opening C
2	• 70107-0036	16.51 (.650)	2.54 (.100)	13.08 (.515)
3	• 70107-0037	19.05 (.750)	5.08 (.200)	15.62 (.615)
4	• 70107-0038	21.59 (.850)	7.62 (.300)	18.61 (.715)
5	• 70107-0039	24.13 (.950)	10.16 (.400)	20.70 (.815)
6	• 70107-0040	26.67 (1.050)	12.70 (.500)	23.24 (.915)
7	• 70107-0041	29.21 (1.150)	15.24 (.600)	25.78 (1.015)
8	• 70107-0042	31.75 (1.250)	17.78 (.700)	28.32 (1.115)
9	• 70107-0043	34.29 (1.350)	20.32 (.800)	30.86 (1.215)
10	• 70107-0044	36.83 (1.450)	22.86 (.900)	33.40 (1.315)
11	• 70107-0045	39.37 (1.550)	25.40 (1.000)	35.94 (1.415)
12	• 70107-0046	41.91 (1.650)	27.94 (1.100)	38.48 (1.515)
13	• 70107-0047	44.45 (1.750)	30.48 (1.200)	41.02 (1.615)

Circuits	Order No.	Dimension		
		A	B	Panel Opening C
14	• 70107-0048	46.99 (1.850)	33.02 (1.300)	43.56 (1.715)
15	• 70107-0049	49.53 (1.950)	33.56 (1.400)	46.10 (1.815)
16	• 70107-0050	52.07 (2.050)	38.10 (1.500)	48.64 (1.915)
17	• 70107-0051	54.61 (2.150)	40.64 (1.600)	51.18 (2.015)
18	• 70107-0052	57.15 (2.250)	43.18 (1.700)	53.72 (2.115)
19	• 70107-0053	59.69 (2.350)	45.72 (1.800)	56.26 (2.215)
20	• 70107-0054	62.23 (2.450)	48.26 (1.900)	58.80 (2.315)
21	• 70107-0055	64.77 (2.550)	50.80 (2.000)	61.34 (2.415)
22	• 70107-0056	67.31 (2.650)	53.34 (2.100)	63.88 (2.515)
23	• 70107-0057	69.85 (2.750)	55.88 (2.200)	66.42 (2.615)
24	• 70107-0058	72.39 (2.850)	58.42 (2.300)	68.96 (2.715)
25	• 70107-0059	74.93 (2.950)	60.96 (2.400)	71.50 (2.815)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Used primarily for remote interconnections
- Locking crown secures positive latch to connector
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Mounting ears for insertion into .030 to .090" thick panels
- Mates modular branch pin assemblies to single connector assembly

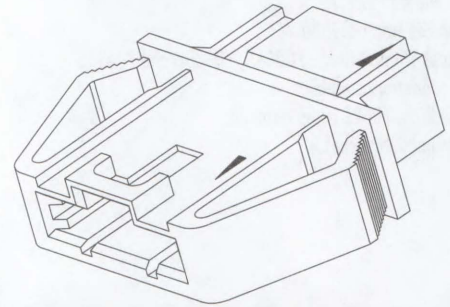
Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C



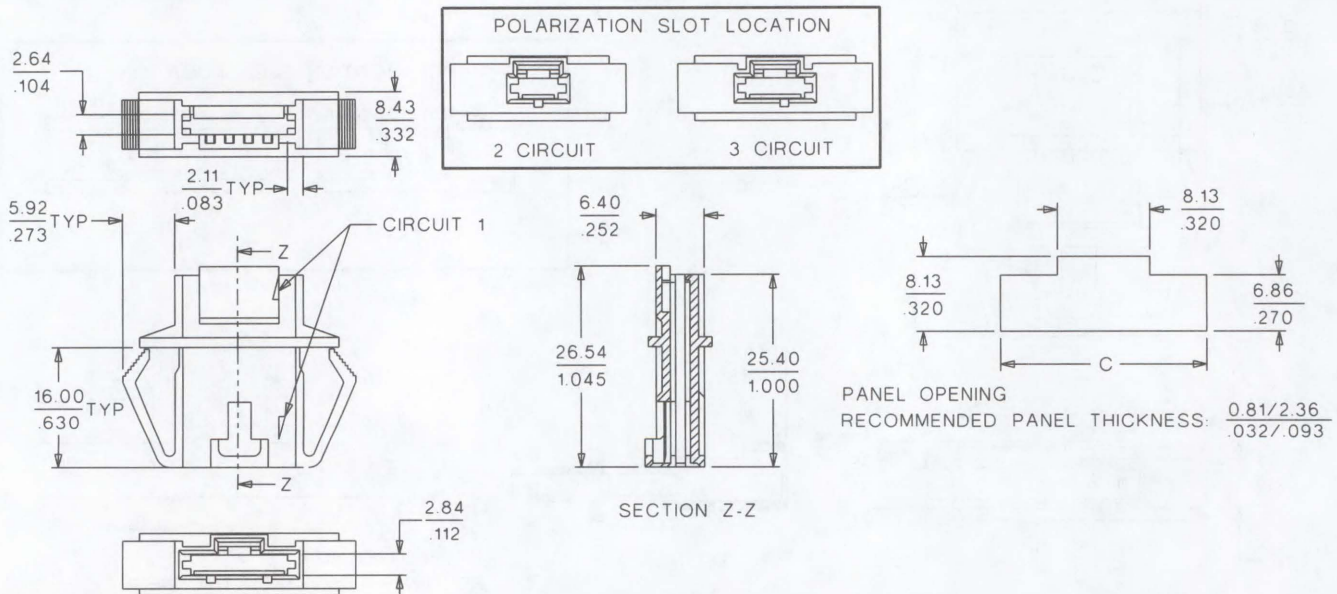
2.54mm (.100") Pitch SL™ Wire-to-Wire Panel Mount Connector

70018 Single Row Modular Branch



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	Circuits	Order No.	Dimension
		Panel Opening C			Panel Opening C
2	• 50-65-0202	15.87 (.625)	14	• 50-65-0214	46.35 (1.825)
3	• 50-65-0203	18.41 (.725)	15	• 50-65-0215	48.89 (1.925)
4	• 50-65-0204	20.95 (.825)	16	• 50-65-0216	51.43 (2.025)
5	• 50-65-0205	23.49 (.925)	17	• 50-65-0217	53.97 (2.125)
6	• 50-65-0206	26.03 (1.025)	18	• 50-65-0218	56.51 (2.225)
7	• 50-65-0207	28.57 (1.125)	19	• 50-65-0219	59.05 (2.325)
8	• 50-65-0208	31.11 (1.225)	20	• 50-65-0220	61.59 (2.425)
9	• 50-65-0209	33.65 (1.325)	21	• 50-65-0221	64.13 (2.525)
10	• 50-65-0210	36.19 (1.425)	22	• 50-65-0222	66.67 (2.625)
11	• 50-65-0211	38.73 (1.525)	23	• 50-65-0223	69.21 (2.725)
12	• 50-65-0212	41.27 (1.625)	24	• 50-65-0224	71.75 (2.825)
13	• 50-65-0213	43.81 (1.725)	25	• 50-65-0225	74.29 (2.925)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 25 circuits
- Used primarily for remote interconnections
- Locking crown secures positive latch to connector
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Mounting ears for insertion into .030 to .090" thick panels
- Mates single or modular branch pin assemblies with modular branch connector assemblies in an interim clip

Reference Information

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70004 front side, and 70066D and 70475D pin assemblies back side

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



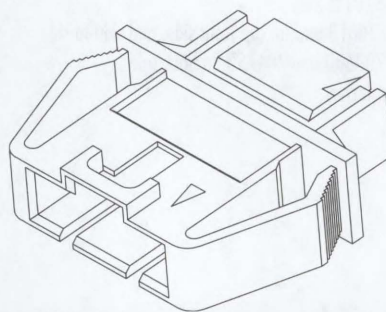
2.54mm (.100") Pitch

SL™

Wire-to-Wire
Panel Mount Connector

70104

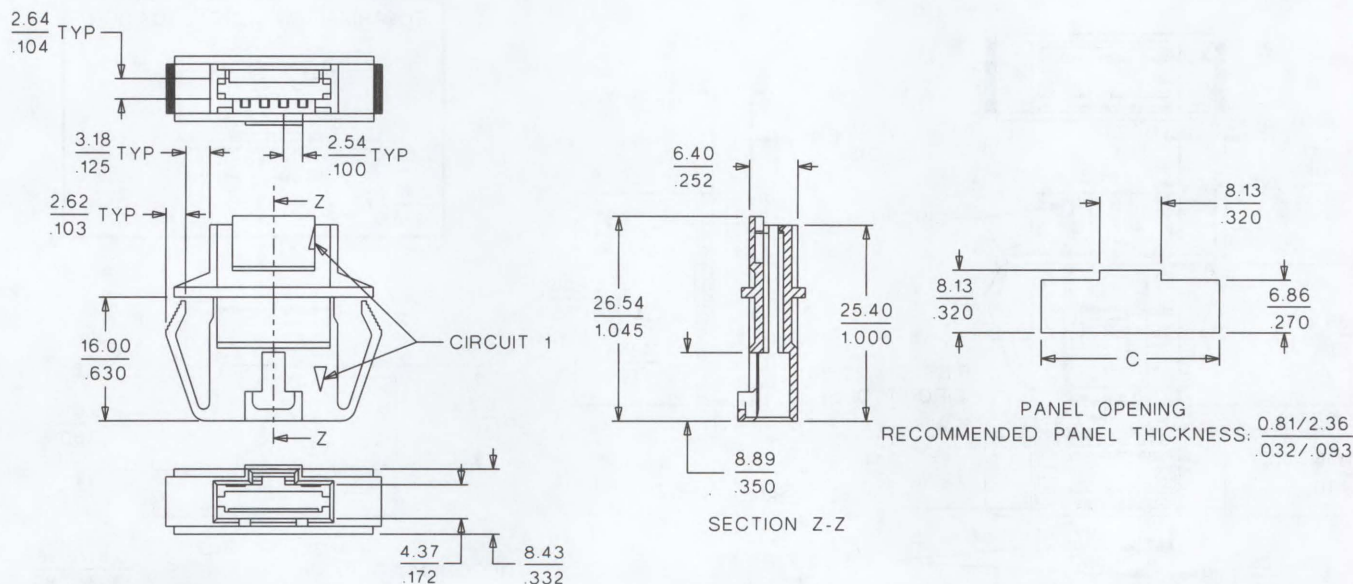
Single Row
Modular Branch



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension
		Panel Opening C
4	• 50-65-0104	20.95 (.825)
5	• 50-65-0105	23.49 (.925)
6	• 50-65-0106	26.03 (1.025)
7	• 50-65-0107	28.57 (1.125)
8	• 50-65-0108	31.11 (1.225)
9	• 50-65-0109	33.65 (1.325)
10	• 50-65-0110	36.19 (1.425)
11	• 50-65-0111	38.73 (1.575)
12	• 50-65-0112	41.27 (1.625)
13	• 50-65-0113	43.81 (1.725)
14	• 50-65-0114	46.35 (1.825)

Circuits	Order No.	Dimension
		Panel Opening C
15	• 50-65-0115	48.89 (1.925)
16	• 50-65-0116	51.43 (2.025)
17	• 50-65-0117	53.97 (2.125)
18	• 50-65-0118	56.51 (2.225)
19	• 50-65-0119	59.05 (2.325)
20	• 50-65-0120	61.59 (2.425)
21	• 50-65-0121	64.13 (2.525)
22	• 50-65-0122	66.67 (2.625)
23	• 50-65-0123	69.21 (2.725)
24	• 50-65-0124	71.75 (2.825)
25	• 50-65-0125	74.79 (2.925)

• US Standard Product, available through Molex franchised distributors

2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 50 circuits
- Used primarily for high density remote interconnections
- Locking crown secures positive latch to connector
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Mates modular branch pin assemblies to modular branch connector assemblies in a dual row configuration

Reference Information

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70013 interim clip front side, and side-to-side stacked 70066D and 70475D on back side

Designed In: Inches

Physical

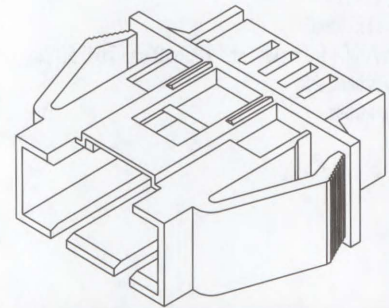
Housing: Black glass-filled polyester, UL 94V-0

Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch SL™ Wire-to-Wire Panel Mount Connector

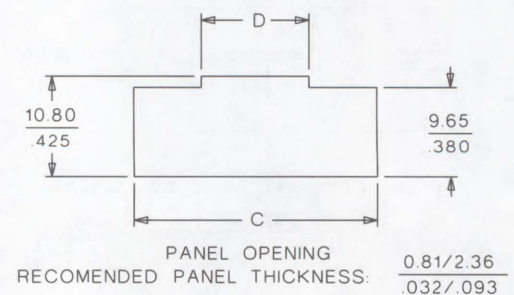
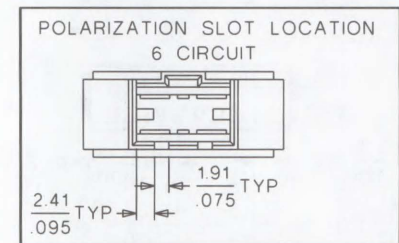
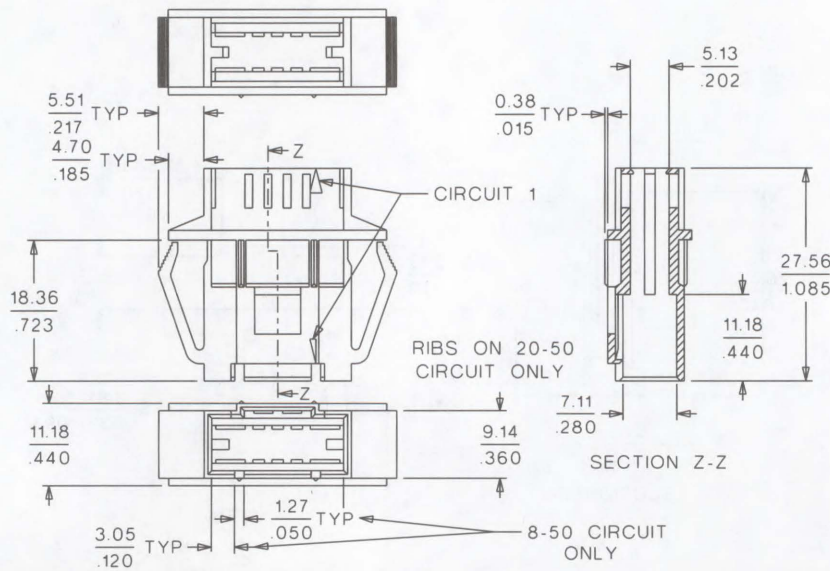
70022

Dual Row
Modular Branch



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		C	D
6	• 50-65-0006	20.70 (.815)	8.64 (.340)
8	• 50-65-0008	23.24 (.915)	8.89 (.350)
10	• 50-65-0010	25.78 (1.015)	11.43 (.450)
12	• 50-65-0012	28.32 (1.115)	13.97 (.550)
14	• 50-65-0014	30.86 (1.215)	16.51 (.650)
16	• 50-65-0016	33.40 (1.315)	19.05 (.750)
18	• 50-65-0018	35.94 (1.415)	21.59 (.850)
20	• 50-65-0020	38.48 (1.515)	24.13 (.950)
22	• 50-65-0022	41.02 (1.615)	26.67 (1.050)
24	• 50-65-0024	43.56 (1.715)	29.21 (1.150)
26	• 50-65-0026	46.10 (1.815)	31.75 (1.250)
28	• 50-65-0028	48.64 (1.915)	34.29 (1.350)

Circuits	Order No.	Dimension	
		C	D
30	• 50-65-0030	51.18 (2.015)	36.83 (1.450)
32	• 50-65-0032	53.72 (2.115)	39.37 (1.550)
34	• 50-65-0034	56.26 (2.215)	41.91 (1.650)
36	• 50-65-0036	58.80 (2.315)	44.45 (1.750)
38	• 50-65-0038	61.34 (2.415)	46.99 (1.850)
40	• 50-65-0040	63.88 (2.515)	49.53 (1.950)
42	• 50-65-0042	66.42 (2.615)	52.07 (2.050)
44	• 50-65-0051	68.96 (2.715)	54.61 (2.150)
46	• 50-65-0046	71.50 (2.815)	57.15 (2.250)
48	• 50-65-0048	74.04 (2.915)	59.69 (2.350)
50	• 50-65-0050	76.58 (3.015)	62.23 (2.450)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 25 circuits
- Positive latch retains clip to panel mount or 180° pocket headers
- Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage
- Stacks 70066/70400D assemblies end-to-end to form a larger single row connector

Reference Information

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70104, 70563, 70565, 70573 and 70575

Designed In: Inches

Physical

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

Operating Temperature: -40 to +105°C



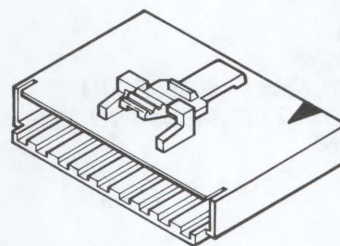
2.54mm (.100") Pitch

SL™

Interim Clip

70004

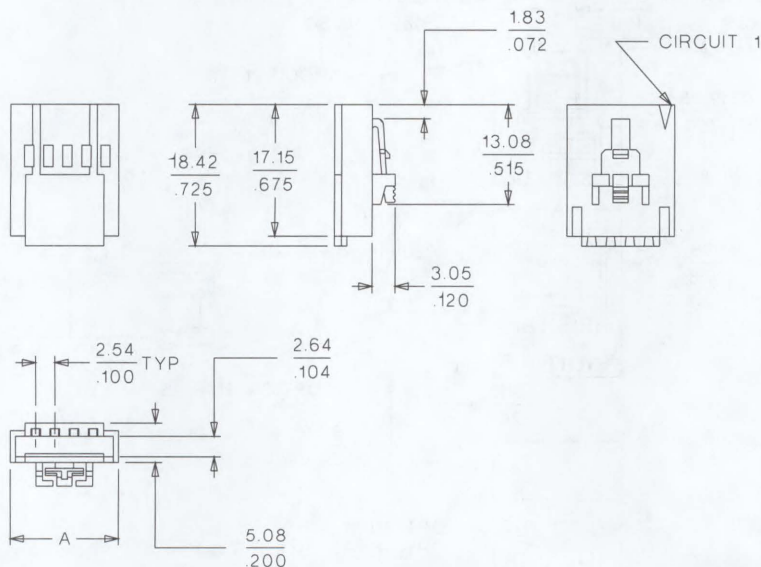
Single Row
Modular Branch



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension
		A
4	• 15-04-5042	11.83 (.466)
5	• 15-04-5052	14.37 (.566)
6	• 15-04-5062	16.91 (.666)
7	• 15-04-5072	19.45 (.766)
8	• 15-04-5082	21.99 (.866)
9	• 15-04-5092	24.53 (.966)
10	• 15-04-5102	27.07 (1.066)
11	• 15-04-5112	29.61 (1.166)
12	• 15-04-5122	32.15 (1.266)
13	• 15-04-5132	34.69 (1.366)
14	• 15-04-5142	37.23 (1.466)

Circuits	Order No.	Dimension
		A
15	• 15-04-5152	39.77 (1.566)
16	• 15-04-5162	42.31 (1.666)
17	• 15-04-5172	44.85 (1.766)
18	• 15-04-5182	47.39 (1.866)
19	• 15-04-5192	49.93 (1.966)
20	• 15-04-5202	52.47 (2.066)
21	• 15-04-5212	55.01 (2.166)
22	• 15-04-5222	57.55 (2.266)
23	• 15-04-5232	60.09 (2.366)
24	• 15-04-5242	62.63 (2.466)
25	• 15-04-5252	65.17 (2.566)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 50 circuits
- Positive latch retains clip to dual row panel mount or headers
- Optional front polarization rib available (version B)
- Stacks single row 70066/70400D assemblies side-to-side and end-to-end to form a larger dual row connector, accepts 70450C dual row connector to provide positive latch feature

Physical

Housing: Black glass-filled polyester, UL 94V-0
Operating Temperature: -40 to +105°C



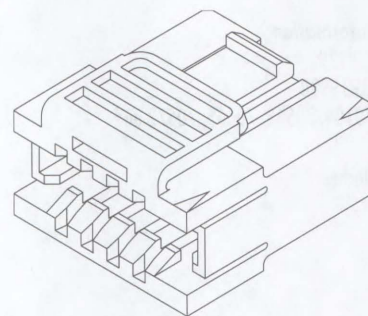
2.54mm (.100") Pitch

SL™

Interim Clip

70013

Dual Row



Reference Information

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

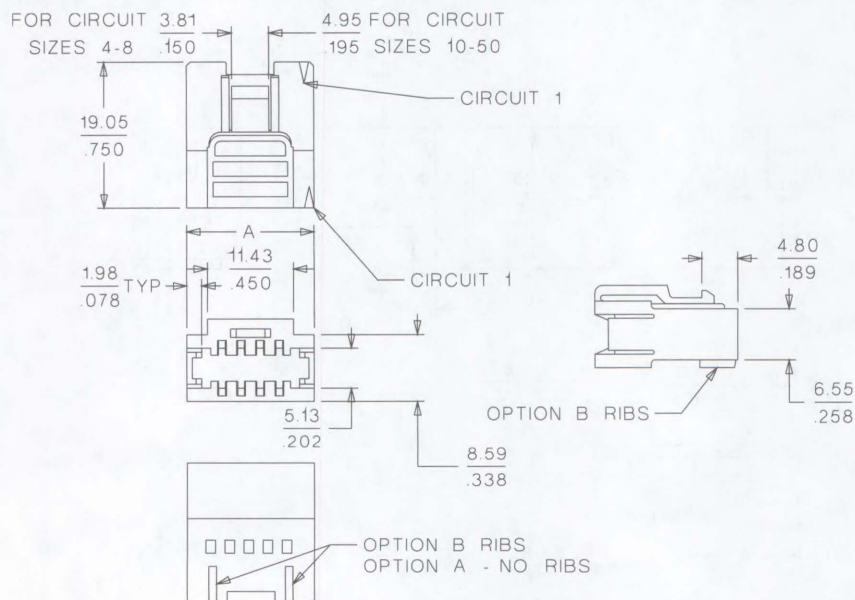
Mates With: 70013, Version A—8723B and 8724B

70013, Version B—70022, 70227 and 70229

Designed In: Inches

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension
	Version A Without Ribs	Version B With Ribs	A
6	• 15-04-5061	• 15-04-5064	11.83 (.466)
8	• 15-04-5081	• 15-04-5084	14.37 (.566)
10	• 15-04-5101	• 15-04-5104	16.91 (.666)
12	• 15-04-5121	• 15-04-5124	19.45 (.766)
14	• 15-04-5141	• 15-04-5144	21.99 (.866)
16	• 15-04-5161	• 15-04-5164	24.53 (.966)
18	• 15-04-5181	• 15-04-5184	27.07 (1.066)
20	• 15-04-5201	• 15-04-5204	29.61 (1.166)
22	• 15-04-5221	• 15-04-5224	32.15 (1.266)
24	• 15-04-5241	• 15-04-5244	34.69 (1.366)
26	• 15-04-5261	• 15-04-5264	37.23 (1.466)
28	• 15-04-5281	• 15-04-5284	39.77 (1.566)

Circuits	Order No.		Dimension
	Version A Without Ribs	Version B With Ribs	A
30	• 15-04-5301	• 15-04-5304	42.31 (1.666)
32	• 15-04-5321	• 15-04-5324	44.85 (1.766)
34	• 15-04-5341	• 15-04-5344	47.39 (1.866)
36	• 15-04-5361	• 15-04-5364	49.93 (1.966)
38	• 15-04-5381	• 15-04-5384	52.47 (2.066)
40	• 15-04-5401	• 15-04-5404	55.01 (2.166)
42	• 15-04-5421	• 15-04-5424	57.55 (2.266)
44	• 15-04-5441	• 15-04-5444	60.09 (2.366)
46	• 15-04-5461	• 15-04-5464	62.63 (2.466)
48	• 15-04-5481	• 15-04-5484	65.17 (2.566)
50	• 15-04-5501	• 15-04-5504	67.71 (2.666)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Wire-to-wire panel mount connector for blind mate applications
- Positive lock for secure mating retention
- Allows for discrete or multiple circuit sizes into the back of the connector via discrete wire, ribbon cable or FFC
- Polarized side-to-side and 180°
- Hot stamped with week/year 4-digit date code

Reference Information

Product Specification: PS-73099-9999

Packaging: Bag

UL File No.: E29179

CSA File No.: LR 19980

Mates with: Front — 73099

Back — 70066G, 70400G, 70430G

Designed in: Inches

Electrical

Voltage: 30V MS AC/DC

Current: 2.0A

Contact Resistance: 30mΩ max.

Dielectric Withstanding Voltage: 1060V

Insulation Resistance: 10,000 MΩ min.

Mechanical

Insertion force to Panel: 111.20N (25 lbs.) max.

Retention Force to Panel: 22.2N (5 lbs.) min.

Durability: 6000 cycles

Physical

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

Contact: Beryllium Copper

Plating: Cantilever Area—50μ" Gold

Select Male Pin Area—50μ" Gold

Underplating—Nickel

Operating Temperature: -40 to +105°C



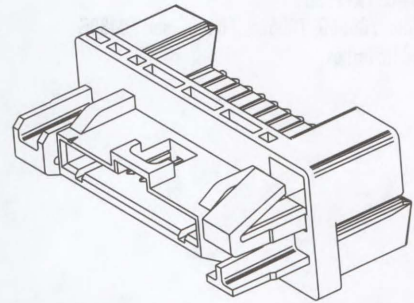
2.54mm (.100") Pitch

SL™

Wire-to-Wire
Drawer Connector

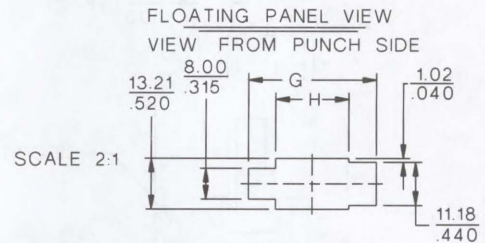
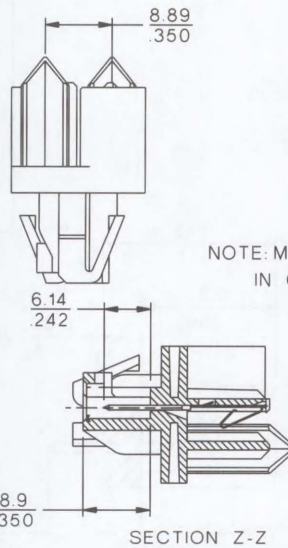
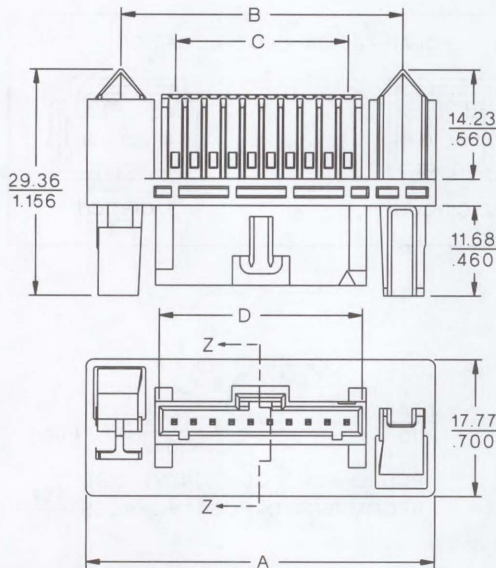
73099

Blind Mating,
Hermaphroditic

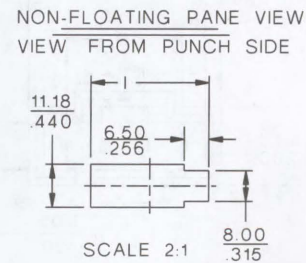


2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



NOTE: MATING SYSTEM MUST USE A FLOATING PANEL IN CONJUNCTION WITH A NON-FLOATING PANEL



ORDERING INFORMATION AND DIMENSIONS

Circuits	Standard Configuration		Custom Configuration†		Dimension						
	Option A*	Option B	Option A*	Option B	A	B	C	D	G	H	I
4	†	†	†	†	30.99 (1.220)	22.10 (0.870)	7.62 (0.300)	10.67 (0.420)	31.24 (1.230)	16.76 (0.660)	28.65 (1.128)
6	†	†	†	†	35.56 (1.420)	27.18 (1.070)	12.70 (0.500)	15.75 (0.620)	36.32 (1.430)	21.84 (0.860)	33.73 (1.328)
8	†	†	†	†	41.15 (1.620)	32.26 (1.270)	17.78 (0.700)	20.83 (0.820)	41.40 (1.630)	26.92 (1.060)	38.81 (1.528)
10	†	†	73099-0001	73099-0002	46.23 (1.820)	37.74 (1.470)	22.86 (0.900)	25.91 (1.020)	46.48 (1.830)	32.00 (1.260)	43.89 (1.728)
12	73099-0221	†	†	†	51.31 (2.020)	42.42 (1.670)	27.94 (1.100)	30.99 (1.220)	51.56 (2.030)	37.08 (1.460)	48.97 (1.928)

* Option A: When mated to another option A — Will orient one SL latch up (as pictured) and orient the other mating SL latch down.

When mated to option B — Will orient both SL Connector latches up. Contact Molex for details.

† Custom configurations allow a predetermined combination of SL connectors with varying circuit sizes to be used when the total of the combinations equals the drawer connector circuit size.

For example, a 10-circuit drawer connector custom configuration could accept two 2-circuit connectors and one 6-circuit SL connector. Contact Molex for details.

‡ Please contact Molex for Order Numbers.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Durability: Tin—25 cycles; Gold—50 cycles

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



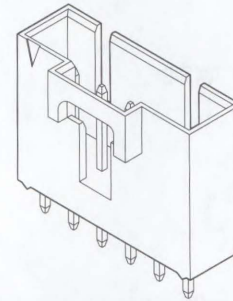
2.54mm (.100") Pitch

SL™

Wire-to-Board
Shrouded Header

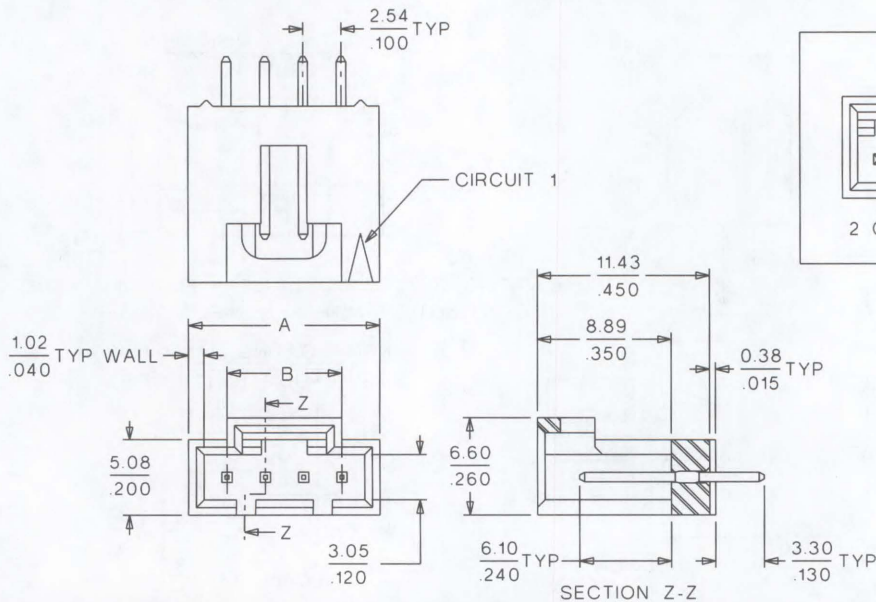
70543

Single Row, .120" Pocket
Vertical

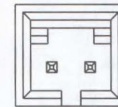


CATALOG DRAWING (FOR REFERENCE ONLY)

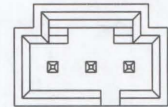
Not For Use With C-Grid III™ Components



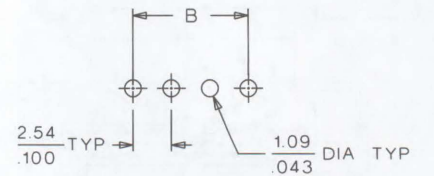
POLARIZATION SLOT LOCATION



2 CIRCUIT



3 CIRCUIT



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
2	• 70543-0001	70543-0106	70543-0036	7.37 (.290)	2.54 (.100)
3	• 70543-0002	70543-0107	70543-0037	10.17 (.400)	5.08 (.200)
4	• 70543-0003	70543-0108	70543-0038	12.71 (.500)	7.62 (.300)
5	• 70543-0004	70543-0109	70543-0039	15.25 (.600)	10.16 (.400)
6	• 70543-0005	70543-0110	70543-0040	17.79 (.700)	12.70 (.500)
7	• 70543-0006	70543-0111	70543-0041	20.33 (.800)	15.24 (.600)
8	• 70543-0007	70543-0112	70543-0042	22.87 (.900)	17.78 (.700)
9	• 70543-0008	70543-0113	70543-0043	25.41 (1.000)	20.32 (.800)
10	• 70543-0009	70543-0114	70543-0044	27.95 (1.100)	22.86 (.900)
11	• 70543-0010	70543-0115	70543-0045	30.49 (1.200)	25.40 (1.000)
12	• 70543-0011	70543-0116	70543-0046	33.03 (1.300)	27.94 (1.100)
13	• 70543-0012	70543-0117	70543-0047	35.57 (1.400)	30.48 (1.200)

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
14	• 70543-0013	70543-0118	70543-0048	38.11 (1.500)	33.02 (1.300)
15	• 70543-0014	70543-0119	70543-0049	40.65 (1.600)	35.56 (1.400)
16	• 70543-0015	70543-0120	70543-0050	43.19 (1.700)	38.10 (1.500)
17	• 70543-0016	70543-0121	70543-0051	45.73 (1.800)	40.64 (1.600)
18	• 70543-0017	70543-0122	70543-0052	48.27 (1.900)	43.18 (1.700)
19	• 70543-0018	70543-0123	70543-0053	50.81 (2.000)	45.72 (1.800)
20	• 70543-0019	70543-0124	70543-0054	53.35 (2.100)	48.26 (1.900)
21	• 70543-0020	70543-0125	70543-0055	55.89 (2.200)	50.80 (2.000)
22	• 70543-0021	70543-0126	70543-0056	58.43 (2.300)	53.34 (2.100)
23	• 70543-0022	70543-0127	70543-0057	60.97 (2.400)	55.88 (2.200)
24	• 70543-0023	70543-0128	70543-0058	63.51 (2.500)	58.42 (2.300)
25	• 70543-0024	70543-0129	70543-0059	66.05 (2.600)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 10 circuits
- PCB locks hold header in place until permanently soldered
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 44.5 N (10 lb)

Durability: 25 cycles Tin and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



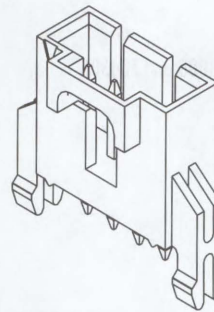
2.54mm (.100") Pitch

SL™

Wire-to-Board
Shrouded Header

70541

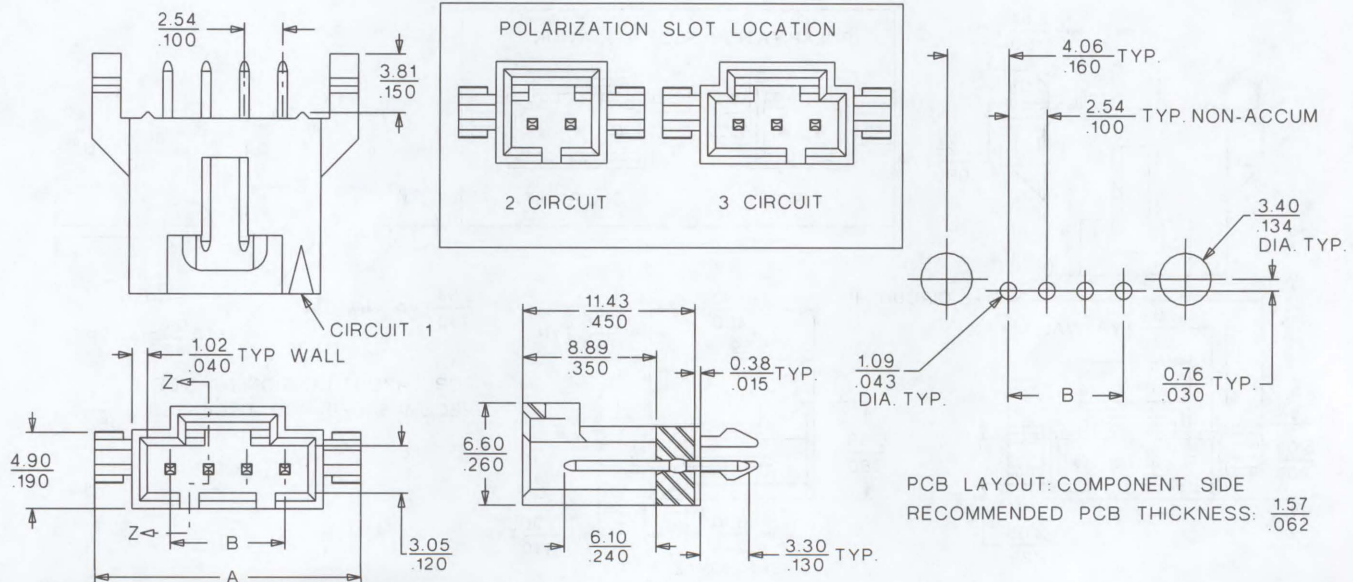
Single Row, .120" Pocket
Vertical, Split Pegs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
2	• 70541-0036	70541-0071	70541-0001	12.40 (.488)	2.54 (.100)
3	• 70541-0037	70541-0072	70541-0002	14.94 (.588)	5.08 (.200)
4	• 70541-0038	70541-0073	70541-0003	17.48 (.688)	7.62 (.300)
5	• 70541-0039	70541-0074	70541-0004	20.02 (.788)	10.16 (.400)
6	• 70541-0040	70541-0075	70541-0005	22.56 (.888)	12.70 (.500)
7	• 70541-0041	70541-0076	70541-0006	25.10 (.988)	15.24 (.600)
8	• 70541-0042	70541-0077	70541-0007	27.64 (1.088)	17.78 (.700)
9	• 70541-0043	70541-0078	70541-0008	30.18 (1.188)	20.32 (.800)
10	• 70541-0044	70541-0079	70541-0009	32.72 (1.288)	22.86 (.900)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Size 2 to 25 circuits
- PCB locks hold header in place until permanently soldered
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 44.50N (10 lb)

Durability: 25 cycles Tin and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



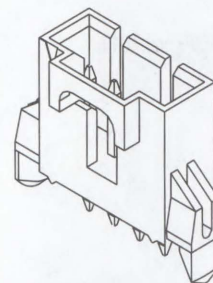
2.54mm (.100") Pitch

SL™

Wire-to-Board
Shrouded Header

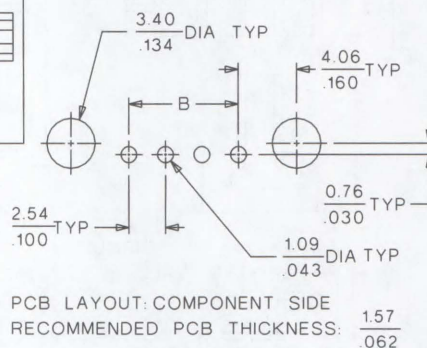
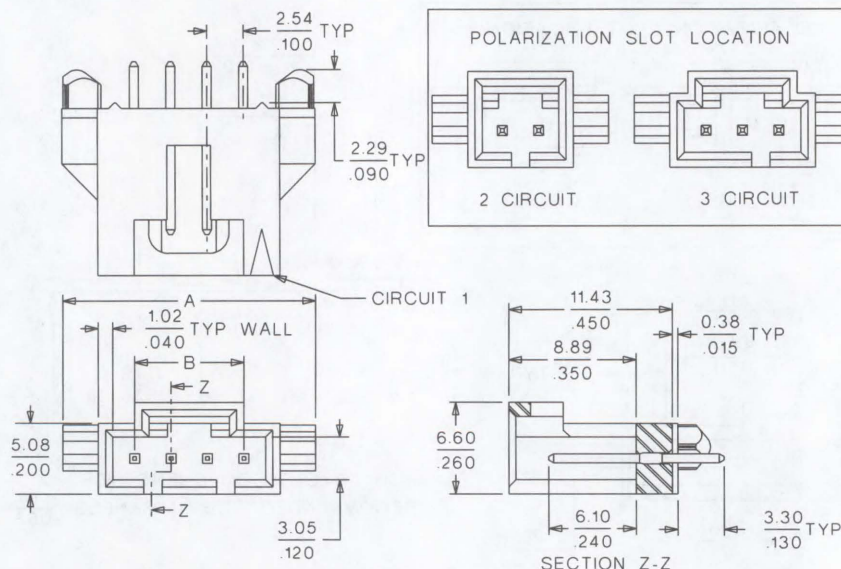
70545

Single Row, .120" Pocket
Vertical, Tri-Peg



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
2	• 70545-0036	70545-0071	70545-0001	12.40 (.488)	2.54 (.100)
3	• 70545-0037	70545-0072	70545-0002	14.94 (.588)	5.08 (.200)
4	• 70545-0038	70545-0073	70545-0003	17.48 (.688)	7.62 (.300)
5	• 70545-0039	70545-0074	70545-0004	20.02 (.788)	10.16 (.400)
6	• 70545-0040	70545-0075	70545-0005	22.56 (.888)	12.70 (.500)
7	• 70545-0041	70545-0076	70545-0006	25.10 (.988)	15.24 (.600)
8	• 70545-0042	70545-0077	70545-0007	27.64 (1.088)	17.78 (.700)
9	• 70545-0043	70545-0078	70545-0008	30.18 (1.188)	20.32 (.800)
10	• 70545-0044	70545-0079	70545-0009	32.72 (1.288)	22.86 (.900)
11	• 70545-0045	70545-0080	70545-0010	35.26 (1.388)	25.40 (1.000)
12	• 70545-0046	70545-0081	70545-0011	37.80 (1.488)	27.94 (1.100)
13	• 70545-0047	70545-0082	70545-0012	40.34 (1.588)	30.48 (1.200)

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
14	• 70545-0048	70545-0083	70545-0013	42.88 (1.688)	33.02 (1.300)
15	• 70545-0049	70545-0084	70545-0014	45.42 (1.788)	35.56 (1.400)
16	• 70545-0050	70545-0085	70545-0015	47.96 (1.888)	38.10 (1.500)
17	• 70545-0051	70545-0086	70545-0016	50.50 (1.988)	40.64 (1.600)
18	• 70545-0052	70545-0087	70545-0017	53.04 (2.088)	43.18 (1.700)
19	• 70545-0053	70545-0088	70545-0018	55.58 (2.188)	45.72 (1.800)
20	• 70545-0054	70545-0089	70545-0019	58.12 (2.288)	48.26 (1.900)
21	• 70545-0055	70545-0090	70545-0020	60.66 (2.388)	50.80 (2.000)
22	• 70545-0056	70545-0091	70545-0021	63.20 (2.488)	53.34 (2.100)
23	• 70545-0057	70545-0092	70545-0022	65.74 (2.588)	55.88 (2.200)
24	• 70545-0058	70545-0093	70545-0023	68.28 (2.688)	58.42 (2.300)
25	• 70545-0059	70545-0094	70545-0024	70.82 (2.788)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Durability: 25 cycles Tin and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



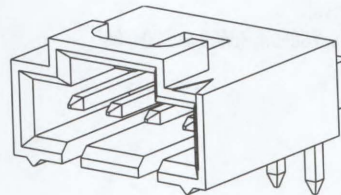
2.54mm (.100") Pitch

SL™

Wire-to-Board
Shrouded Header

70553

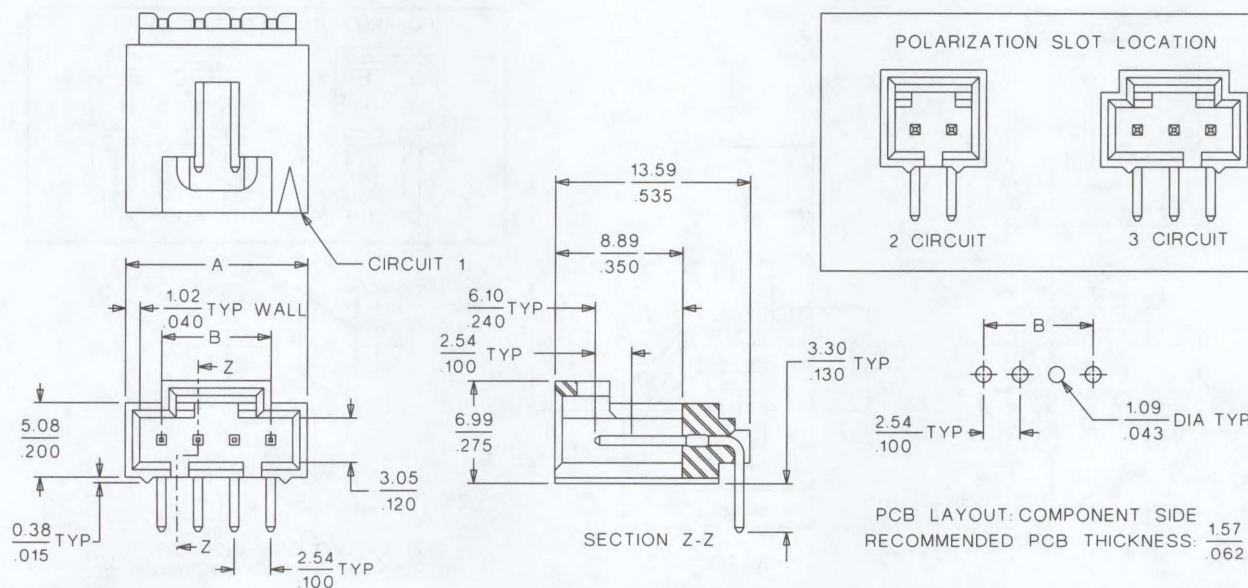
Single Row, .120" Pocket
Right Angle, Low Profile



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
2	• 70553-0001	70553-0106	70553-0036	7.37 (.290)	2.54 (.100)
3	• 70553-0002	70553-0107	70553-0037	10.17 (.400)	5.08 (.200)
4	• 70553-0003	70553-0108	70553-0038	12.71 (.500)	7.62 (.300)
5	• 70553-0004	70553-0109	70553-0039	15.25 (.600)	10.16 (.400)
6	• 70553-0005	70553-0110	70553-0040	17.79 (.700)	12.70 (.500)
7	• 70553-0006	70553-0111	70553-0041	20.33 (.800)	15.24 (.600)
8	• 70553-0007	70553-0112	70553-0042	22.87 (.900)	17.78 (.700)
9	• 70553-0008	70553-0113	70553-0043	25.41 (1.000)	20.32 (.800)
10	• 70553-0009	70553-0114	70553-0044	27.95 (1.100)	22.86 (.900)
11	• 70553-0010	70553-0115	70553-0045	30.49 (1.200)	25.40 (1.000)
12	• 70553-0011	70553-0116	70553-0046	33.03 (1.300)	27.94 (1.100)
13	• 70553-0012	70553-0117	70553-0047	35.57 (1.400)	30.48 (1.200)

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
14	• 70553-0013	70553-0118	70553-0048	38.11 (1.500)	33.02 (1.300)
15	• 70553-0014	70553-0119	70553-0049	40.65 (1.600)	35.56 (1.400)
16	• 70553-0015	70553-0120	70553-0050	43.19 (1.700)	38.10 (1.500)
17	• 70553-0016	70553-0121	70553-0051	45.73 (1.800)	40.64 (1.600)
18	• 70553-0017	70553-0122	70553-0052	48.27 (1.900)	43.18 (1.700)
19	• 70553-0018	70553-0123	70553-0053	50.81 (2.000)	45.72 (1.800)
20	• 70553-0019	70553-0124	70553-0054	53.35 (2.100)	48.26 (1.900)
21	• 70553-0020	70553-0125	70553-0055	55.89 (2.200)	50.80 (2.000)
22	• 70553-0021	70553-0126	70553-0056	58.43 (2.300)	53.34 (2.100)
23	• 70553-0022	70553-0127	70553-0057	60.97 (2.400)	55.88 (2.200)
24	• 70553-0023	70553-0128	70553-0058	63.51 (2.500)	58.42 (2.300)
25	• 70553-0024	70553-0129	70553-0059	66.05 (2.600)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- PCB locks hold header in place until permanently soldered
- Locking crown secures positive latch connector to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Vapor phase and IR compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates with: 70066, 70066N, 70400 and 70430G

Designed in: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 M Ω min.

Mechanical

Insertion force to PCB: 44.48N (10 lbs.)

Durability: Tin — 25 cycles

Gold — 50 cycles

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



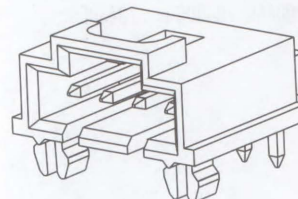
2.54mm (.100") Pitch

SL™

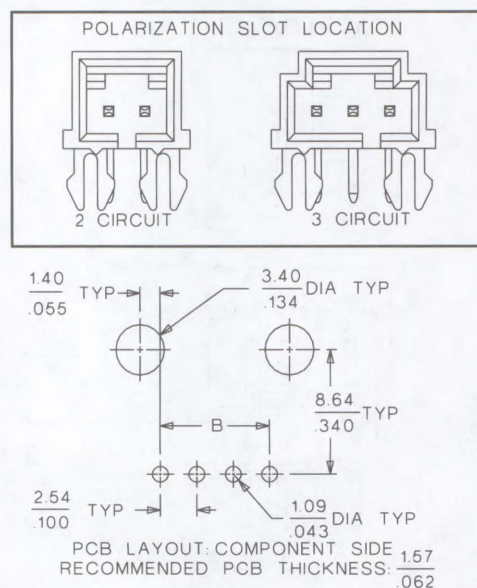
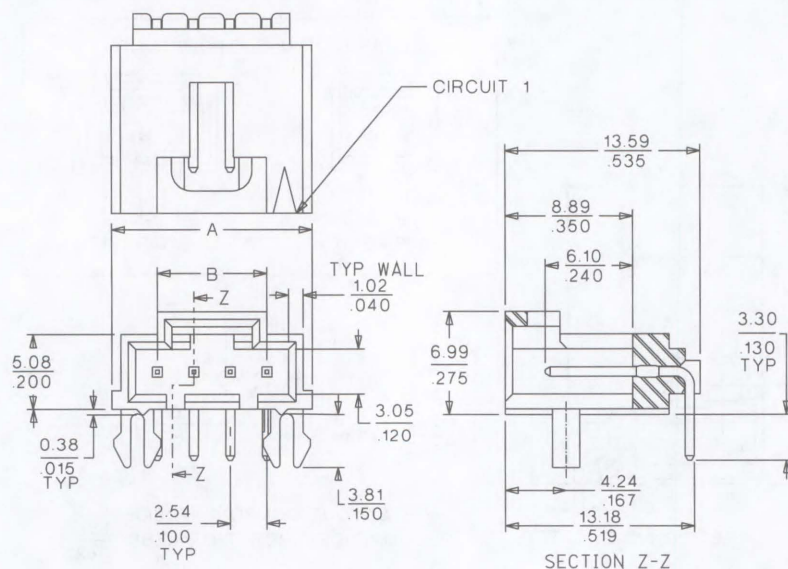
Wire-to-Board Shrouded Header

70551

Single Row, .120" Pocket Right Angle, Split Peg



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15 μ " min. Gold	30 μ " min. Gold	150 μ " Tin/Lead	A	B
2	70551-0036	70551-0071	70551-0001	8.53 (.336)	2.54 (.100)
3	70551-0037	70551-0072	70551-0002	11.07 (.436)	5.08 (.200)
4	70551-0038	70551-0073	70551-0003	13.61 (.536)	7.62 (.300)
5	70551-0039	70551-0074	70551-0004	16.15 (.636)	10.16 (.400)
6	70551-0040	70551-0075	70551-0005	18.69 (.736)	12.70 (.500)
7	70551-0041	70551-0076	70551-0006	21.23 (.836)	15.24 (.600)
8	70551-0042	70551-0077	70551-0007	23.77 (.936)	17.78 (.700)
9	70551-0043	70551-0078	70551-0008	26.31 (1.036)	20.32 (.800)
10	70551-0044	70551-0079	70551-0009	28.85 (1.136)	22.86 (.900)
11	70551-0045	70551-0080	70551-0010	31.39 (1.236)	25.40 (1.000)
12	70551-0046	70551-0081	70551-0011	33.93 (1.336)	27.94 (1.100)
13	70551-0047	70551-0082	70551-0012	36.47 (1.436)	30.48 (1.200)

Circuits	Order No.			Dimension	
	15µ" min. Gold	30µ" min. Gold	150µ" Tin/Lead	A	B
14	70551-0048	70551-0083	70551-0013	39.01 (1.536)	33.02 (1.300)
15	70551-0049	70551-0084	70551-0014	41.55 (1.636)	35.56 (1.400)
16	70551-0050	70551-0085	70551-0015	44.09 (1.736)	38.10 (1.500)
17	70551-0051	70551-0086	70551-0016	46.63 (1.836)	40.64 (1.600)
18	70551-0052	70551-0087	70551-0017	49.17 (1.936)	43.18 (1.700)
19	70551-0053	70551-0088	70551-0018	51.71 (2.036)	45.72 (1.800)
20	70551-0054	70551-0089	70551-0019	54.25 (2.136)	48.26 (1.900)
21	70551-0055	70551-0090	70551-0020	56.79 (2.236)	50.80 (2.000)
22	70551-0056	70551-0091	70551-0021	59.33 (2.336)	53.34 (2.100)
23	70551-0057	70551-0092	70551-0022	61.87 (2.436)	55.88 (2.200)
24	70551-0058	70551-0093	70551-0022	64.41 (2.536)	58.42 (2.300)
25	70551-0059	70551-0094	70551-0024	66.95 (2.636)	60.96 (2.400)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- PCB locks hold header in place until permanently soldered
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541

Packaging: Tube

UL File No.: E29179

CSA File No.: LR19980

Mates With: 70066G, 70066N, 70400G and 70430G

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 44.50N (10 lb)

Durability: 25 cycles Tin and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze, .025" square

Plating: See Table

Operating Temperature: -40 to +105°C



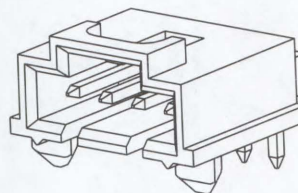
2.54mm (.100") Pitch

SL™

Wire-to-Board
Shrouded Header

70555

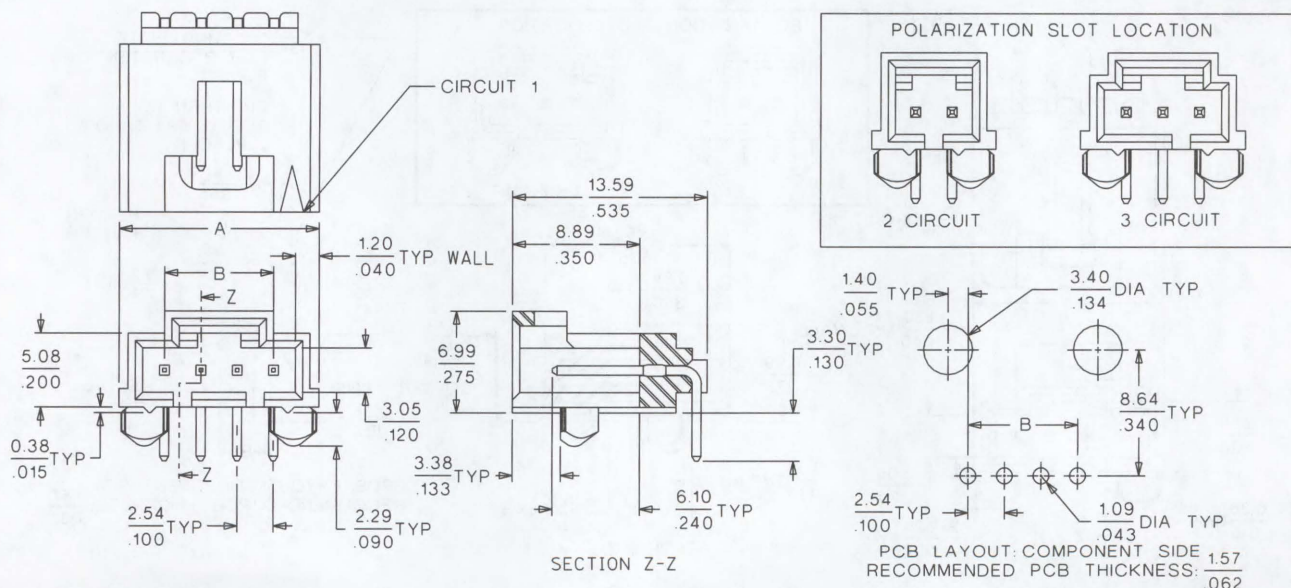
Single Row, .120" Pocket
Right Angle, Low Profile
Tri-Peg



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
2	• 70555-0036	70555-0071	70555-0001	8.53 (.336)	2.54 (.100)
3	• 70555-0037	70555-0072	70555-0002	11.07 (.436)	5.08 (.200)
4	• 70555-0038	70555-0073	70555-0003	13.61 (.536)	7.62 (.300)
5	• 70555-0039	70555-0074	70555-0004	16.15 (.636)	10.16 (.400)
6	• 70555-0040	70555-0075	70555-0005	18.69 (.736)	12.70 (.500)
7	• 70555-0041	70555-0076	70555-0006	21.23 (.836)	15.24 (.600)
8	• 70555-0042	70555-0077	70555-0007	23.77 (.936)	17.78 (.700)
9	• 70555-0043	70555-0078	70555-0008	26.31 (1.036)	20.32 (.800)
10	• 70555-0044	70555-0079	70555-0009	28.85 (1.136)	22.86 (.900)
11	• 70555-0045	70555-0080	70555-0010	31.39 (1.236)	25.40 (1.000)
12	• 70555-0046	70555-0081	70555-0011	33.93 (1.336)	27.94 (1.100)
13	• 70555-0047	70555-0082	70555-0012	36.47 (1.436)	30.48 (1.200)

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
14	• 70555-0048	70555-0083	70555-0013	39.01 (1.536)	33.02 (1.300)
15	• 70555-0049	70555-0084	70555-0014	41.55 (1.636)	35.56 (1.400)
16	• 70555-0050	70555-0085	70555-0015	44.09 (1.736)	38.10 (1.500)
17	• 70555-0051	70555-0086	70555-0016	46.63 (1.836)	40.64 (1.600)
18	• 70555-0052	70555-0087	70555-0017	49.17 (1.936)	43.18 (1.700)
19	• 70555-0053	70555-0088	70555-0018	51.71 (2.036)	45.72 (1.800)
20	• 70555-0054	70555-0089	70555-0019	54.25 (2.136)	48.26 (1.900)
21	• 70555-0055	70555-0090	70555-0020	56.79 (2.236)	50.80 (2.000)
22	• 70555-0056	70555-0091	70555-0021	59.33 (2.336)	53.34 (2.100)
23	• 70555-0057	70555-0092	70555-0022	61.87 (2.436)	55.88 (2.200)
24	• 70555-0058	70555-0093	70555-0023	64.41 (2.536)	58.42 (2.300)
25	• 70555-0059	70555-0094	70555-0024	66.95 (2.636)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- Press-fit peg maximizes retention to PCB during soldering process
- Locking crown secures positive latch to header
- Standoffs minimize flux interference

Reference Information

Product Specification: PS-70541
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates with: 70066G, 70066N, 70400G, 70430G
 Designed in: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion force to PCB: 44.48N (10 lbs.)
 Durability: Tin — 25 cycles
 Gold — 50 cycles

Physical

Housing: Black, glass-filled PCT, UL 94V-0
 Contact: Phosphor Bronze
 Operating Temperature: -40 to +105°C



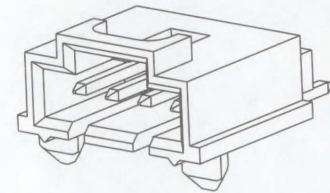
2.54mm (.100") Pitch

SL™

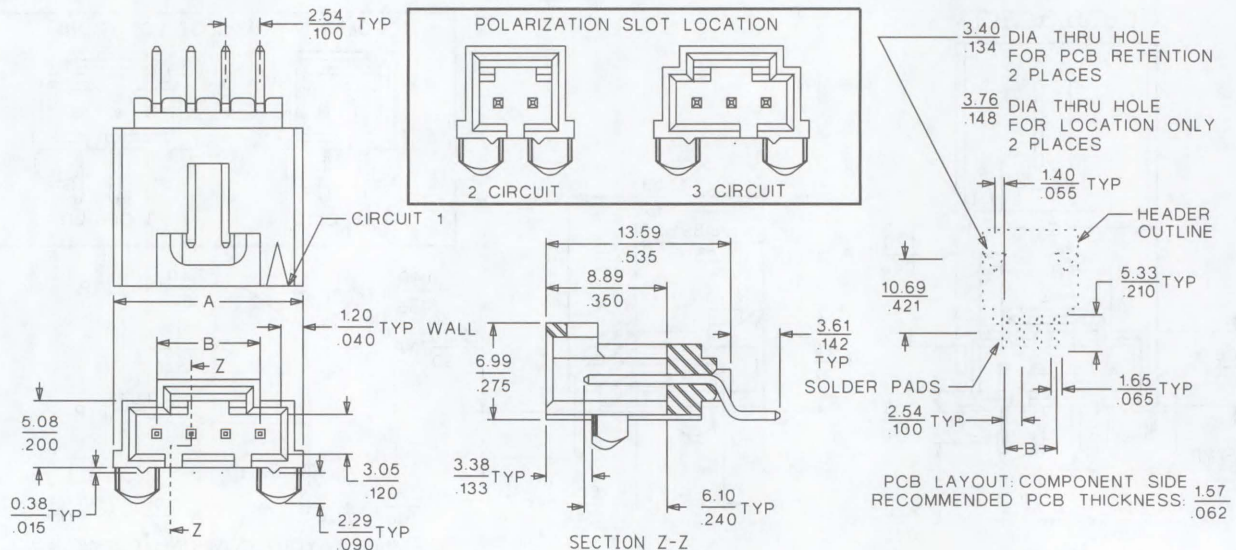
Wire-to-Board
 Shrouded Header

70634

Single Row, .120" Pocket
 Right Angle, Low Profile
 SMT with Tri Peg



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Tin	15μ" Gold	30μ" Gold	Dimension	
				A	B
2	15-91-3024	15-91-2025	15-91-3023	8.63 (.340)	2.54 (.100)
3	15-91-3034	15-91-2035	15-91-3033	11.43 (.450)	5.08 (.200)
4	15-91-3044	15-91-2045	15-91-3043	13.97 (.550)	7.62 (.300)
5	15-91-3054	15-91-2055	15-91-3053	16.51 (.650)	10.16 (.400)
6	15-91-3064	15-91-2065	15-91-3063	19.05 (.750)	12.70 (.500)
7	15-91-3074	15-91-2075	15-91-3073	21.59 (.850)	15.24 (.600)
8	15-91-3084	15-91-2085	15-91-3083	24.13 (.950)	17.78 (.700)
9	15-91-3094	15-91-2095	15-91-3093	26.67 (1.050)	20.32 (.800)
10	15-91-3104	15-91-2105	15-91-3103	29.21 (1.150)	22.86 (.900)
11	15-91-3114	15-91-2115	15-91-3113	31.75 (1.250)	25.40 (1.000)
12	15-91-3124	15-91-2125	15-91-3123	34.29 (1.350)	27.94 (1.100)
13	15-91-3134	15-91-2135	15-91-3133	36.83 (1.450)	30.48 (1.200)

Circuits	Tin	15μ" Gold	30μ" Gold	Dimension	
				A	B
14	15-91-3144	15-91-2145	15-91-3143	39.37 (1.550)	33.02 (1.300)
15	15-91-3154	15-91-2155	15-91-3153	41.91 (1.650)	35.56 (1.400)
16	15-91-3164	15-91-2165	15-91-3163	44.45 (1.750)	38.10 (1.500)
17	15-91-3174	15-91-2175	15-91-3173	46.99 (1.850)	40.64 (1.600)
18	15-91-3184	15-91-2185	15-91-3183	49.53 (1.950)	43.18 (1.700)
19	15-91-3194	15-91-2195	15-91-3193	52.07 (2.050)	45.72 (1.800)
20	15-91-3204	15-91-2205	15-91-3203	54.61 (2.150)	48.26 (1.900)
21	15-91-3214	15-91-2215	15-91-3213	57.15 (2.250)	50.80 (2.000)
22	15-91-3224	15-91-2225	15-91-3223	59.69 (2.350)	53.34 (2.100)
23	15-91-3234	15-91-2235	15-91-3233	62.23 (2.450)	55.88 (2.200)
24	15-91-3244	15-91-2245	15-91-3243	64.37 (2.550)	58.42 (2.300)
25	15-91-3254	15-91-2255	15-91-3253	67.31 (2.650)	60.96 (2.400)

FEATURES AND SPECIFICATIONS

Features and Benefit

- Robust passive lock
- Polarization slots guide front ribs of mated connector
- Header standoffs minimize flux retention
- Square pin (mating)/round pin (PC tail) contact design allows smaller PCB holes that provide larger/denser traces
- Phosphor bronze contacts optimize reliability
- Surface Mount Compatible header reduces customers' manufacturing costs by eliminating a secondary wave solder process after reflow

Reference Information

Product Specification: PS-74190-004

Packaging: Tube

Mates With: 73046 High performance receptacle cable assemblies

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Mechanical

Durability: 50 cycles

Physical

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

Contact Material: Phosphor bronze

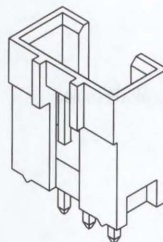
Plating Material: Gold

Operating Temperature: -55 to +105°C

molex® 2.54mm (.100") Pitch SL™ Fibre Channel Wire-to-Board Header

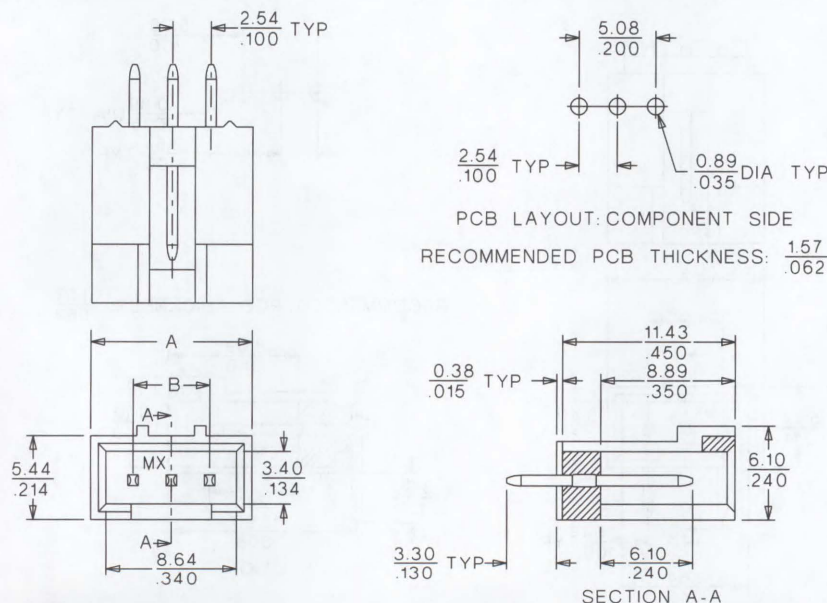
74190

**Single Row, .134" Pocket
Vertical**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimensions	
	15μ" Min. Gold	30μ" Min. Gold	A	B
3	74190-0002	74190-0003	10.67 (.420)	5.08 (.200)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Robust passive lock
- Polarization slots guide front ribs of mated connector
- Header standoffs minimize flux retention
- Square pin (mating)/round pin (PC tail) contact design allows smaller PCB holes that provide larger/denser traces
- Phosphor bronze contacts optimize reliability
- Surface Mount Compatible header reduces customers' manufacturing costs by eliminating a secondary wave solder process after reflow

Reference Information

Product Specification: PS-74190-004

Packaging: Tube

Mates With: 73046 High performance receptacle cable assemblies

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Mechanical

Durability: 50 cycles

Physical

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

Contact Material: Phosphor bronze

Plating Material: Gold

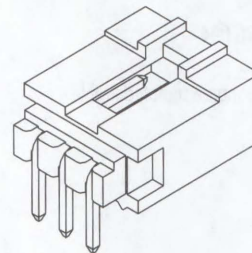
Operating Temperature: -55 to +105°C



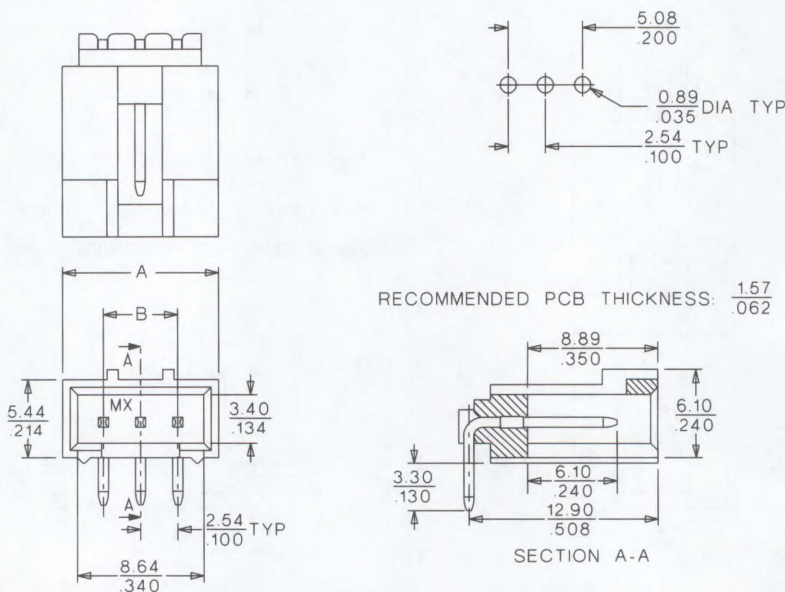
2.54mm (.100") Pitch SL™ Fibre Channel Wire-to-Board Header

74190

**Single Row, .134" Pocket
Right Angle, Low Profile**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimensions	
	15μ" Min. Gold	30μ" Min. Gold	A	B
3	74190-1002	74190-1003	10.67 (.420)	5.08 (.200)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 25 circuits
- Larger pocket accepts interim clip with end-to-end stacked connectors
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 70004
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Durability: Tin—25 cycles; Gold—50 cycles

Physical

Housing: Black glass-filled PCT, UL 94V-0
 Contact: Phosphor Bronze, .025" square
 Plating: See Table
 Operating Temperature: -40 to +105°C



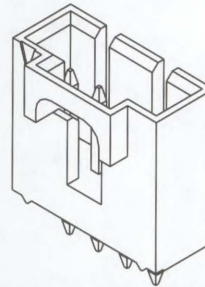
2.54mm (.100") Pitch

SL™

Wire-to-Board
 Shrouded Header

70563

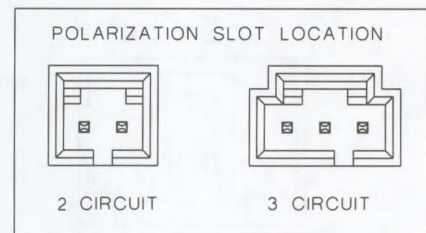
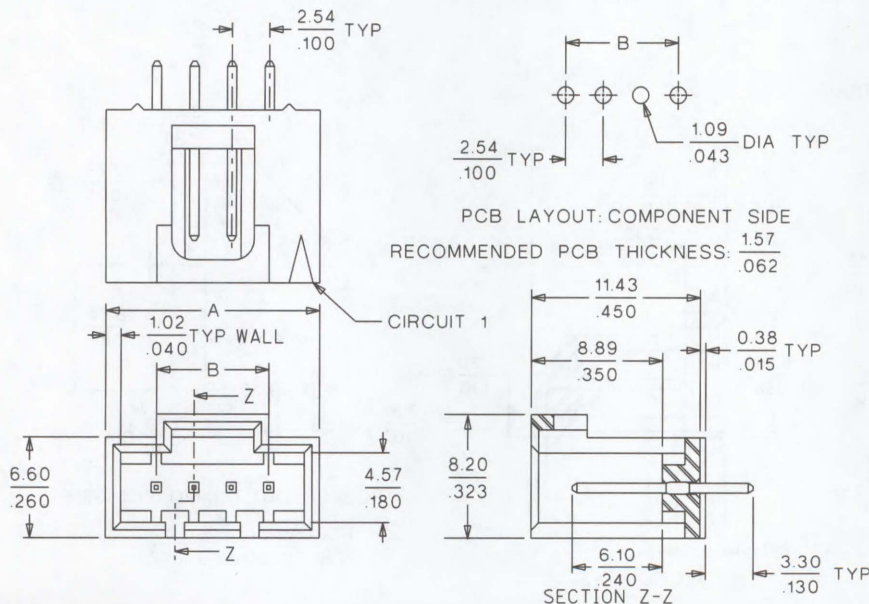
Single Row, .180" Pocket
 Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
4	• 70563-0003	70563-0108	70563-0038	14.49 (.570)	7.62 (.300)
5	• 70563-0004	70563-0109	70563-0039	17.03 (.670)	10.16 (.400)
6	• 70563-0005	70563-0110	70563-0040	19.59 (.770)	12.70 (.500)
7	• 70563-0006	70563-0111	70563-0041	22.11 (.870)	15.24 (.600)
8	• 70563-0007	70563-0112	70563-0042	24.65 (.970)	17.78 (.700)
9	• 70563-0008	70563-0113	70563-0043	27.19 (1.070)	20.32 (.800)
10	• 70563-0009	70563-0114	70563-0044	29.73 (1.170)	22.86 (.900)
11	• 70563-0010	70563-0115	70563-0045	32.27 (1.270)	25.40 (1.000)
12	• 70563-0011	70563-0116	70563-0046	34.81 (1.370)	27.94 (1.100)
13	• 70563-0012	70563-0117	70563-0047	37.35 (1.470)	30.48 (1.200)
14	• 70563-0013	70563-0118	70563-0048	39.89 (1.570)	33.02 (1.300)

Circuits	Order No.			Dimension	
	15μ" Min. Gold	30μ" Min. Gold	150μ" Tin/Lead	A	B
15	• 70563-0014	70563-0119	70563-0049	42.43 (1.670)	35.56 (1.400)
16	• 70563-0015	70563-0120	70563-0050	44.97 (1.770)	38.10 (1.500)
17	• 70563-0016	70563-0121	70563-0051	47.51 (1.870)	40.64 (1.600)
18	• 70563-0017	70563-0122	70563-0052	50.05 (1.970)	43.18 (1.700)
19	• 70563-0018	70563-0123	70563-0053	52.59 (2.070)	45.72 (1.800)
20	• 70563-0019	70563-0124	70563-0054	55.13 (2.170)	48.26 (1.900)
21	• 70563-0020	70563-0125	70563-0055	57.67 (2.270)	50.80 (2.000)
22	• 70563-0021	70563-0126	70563-0056	60.21 (2.370)	53.34 (2.100)
23	• 70563-0022	70563-0127	70563-0057	62.75 (2.470)	55.88 (2.200)
24	• 70563-0023	70563-0128	70563-0058	65.29 (2.570)	58.42 (2.300)
25	• 70563-0024	70563-0129	70563-0059	67.83 (2.670)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 25 circuits
- Larger pocket accepts interim clip with end-to-end stacked connectors
- PCB locks hold header in place until permanently soldered
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Surface Mount Compatible

Reference Information

Product Specification: PS-70541
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 70004
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 44.50N (10 lb)
 Durability: Gold—50 cycles
 Tin—25 cycles

Physical

Housing: Black glass-filled PCT, UL 94V-0
 Contact: Phosphor Bronze, .025" square
 Plating: See Table
 Operating Temperature: -40 to +105°C



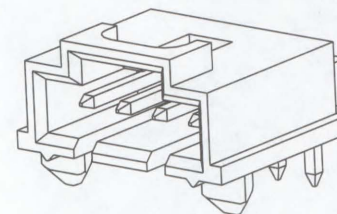
2.54mm (.100") Pitch

SL™

Wire-to-Board
 Shrouded Header

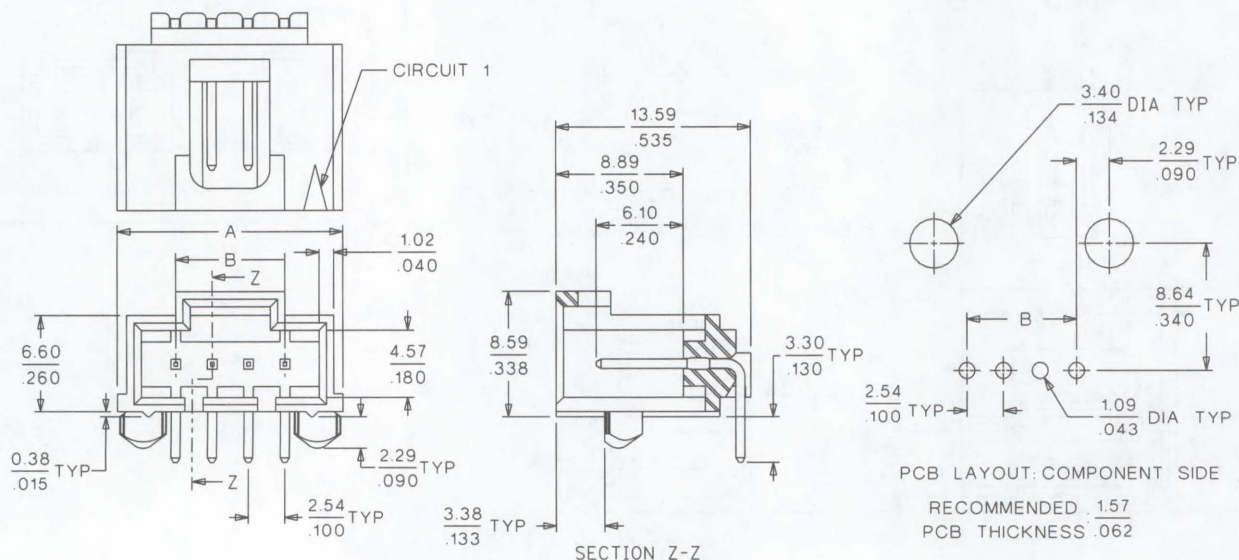
70575

Single Row, .180" Pocket
 Right Angle, Tri-Peg



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	15μ" Min.Gold	30μ" Min.Gold	150μ" Tin/Lead	A	B
4	• 70575-0038	70575-0073	70575-0003	12.19 (.620)	7.62 (.300)
5	• 70575-0039	70575-0074	70575-0004	14.73 (.720)	10.16 (.400)
6	• 70575-0040	70575-0075	70575-0005	17.27 (.820)	12.70 (.500)
7	• 70575-0041	70575-0076	70575-0006	19.81 (.920)	15.24 (.600)
8	• 70575-0042	70575-0077	70575-0007	22.35 (1.020)	17.78 (.700)
9	• 70575-0043	70575-0078	70575-0008	24.89 (1.120)	20.32 (.800)
10	• 70575-0044	70575-0079	70575-0009	27.43 (1.220)	22.86 (.900)
11	• 70575-0045	70575-0080	70575-0010	29.97 (1.320)	25.40 (1.000)
12	• 70575-0046	70575-0081	70575-0011	32.51 (1.420)	27.94 (1.100)
13	• 70575-0047	70575-0082	70575-0012	35.05 (1.520)	30.48 (1.200)
14	• 70575-0048	70575-0083	70575-0013	37.59 (1.620)	33.02 (1.300)

Circuits	Order No.			Dimension	
	15μ" Min.Gold	30μ" Min.Gold	150μ" Tin/Lead	A	B
15	• 70575-0049	70575-0084	70575-0014	40.13 (1.720)	35.56 (1.400)
16	• 70575-0050	70575-0085	70575-0015	42.67 (1.820)	38.10 (1.500)
17	• 70575-0051	70575-0086	70575-0016	45.21 (1.920)	40.64 (1.600)
18	• 70575-0052	70575-0087	70575-0017	47.75 (2.020)	43.18 (1.700)
19	• 70575-0053	70575-0088	70575-0018	50.29 (2.120)	45.72 (1.800)
20	• 70575-0054	70575-0089	70575-0019	52.83 (2.220)	48.26 (1.900)
21	• 70575-0055	70575-0090	70575-0020	55.37 (2.320)	50.80 (2.000)
22	• 70575-0056	70575-0091	70575-0021	57.91 (2.420)	53.34 (2.100)
23	• 70575-0057	70575-0092	70575-0022	60.45 (2.520)	55.88 (2.200)
24	• 70575-0058	70575-0093	70575-0023	62.99 (2.620)	58.42 (2.300)
25	• 70575-0059	70575-0094	70575-0024	65.53 (2.720)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 and 4 circuits
- Locking crown secures positive latch to header
- Polarization slots guide front ribs of mating connector to prevent pin damage
- Standoffs minimize flux retention

Reference Information

Product Specification: PS-87540
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980A
 Mates With: 70066
 Designed In: Millimeters

Electrical

Voltage: 500V
 Current: 4.5A
 Dielectric Withstanding Voltage: 600V AC
 Insulation Resistance: 10,000 M Ω min.

Mechanical

Contact Retention to Housing: 1.82kg min.

Physical

Housing: Black glass-filled PBT, UL 94V-0
 Contact: Brass, .025" square
 Plating: Contact: 5.08 μ m/200 μ " Tin/Lead
 Operating Temperature: -40 to +105°C



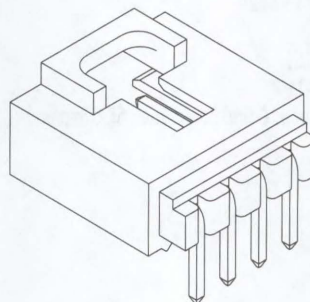
2.54mm(.100") Pitch

SL™

Wire-to-Board
 Header

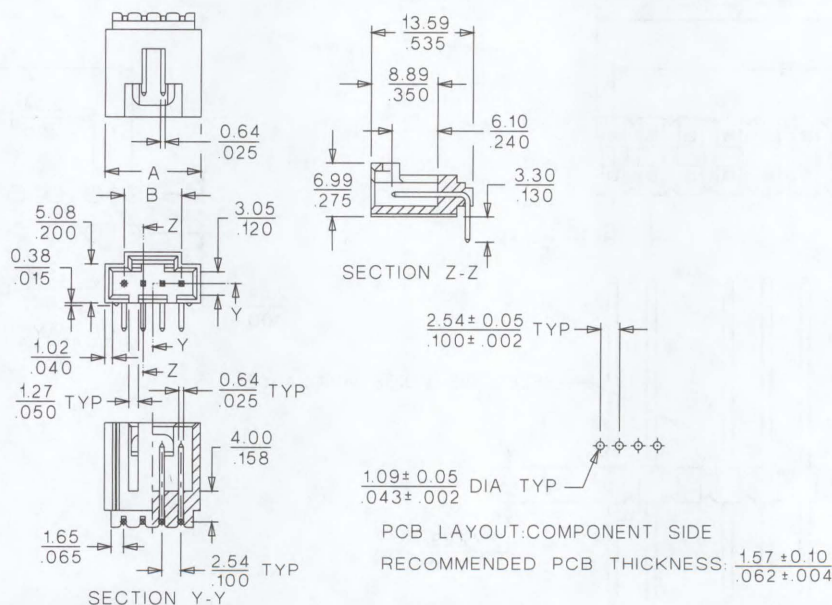
87540

Right Angle, High Current



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	87540-0201	2.54 (.099)	5.33 (.209)
4	87540-0401	7.62 (.299)	10.67 (.420)

MX01

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Stackable side-to-side and end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Packaging: Bag
 UL File No.: E29179 (G)
 Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings
 CSA File No.: LR19980A
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)
 Durability: 25 cycles Tin/Lead and 50 cycles Gold

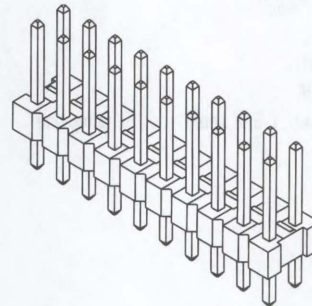
Physical

Housing: High-temperature thermal plastic, UL 94V-0
 Contact: Phosphor Bronze
 Plating: See Table
 Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Breakaway Header

70280

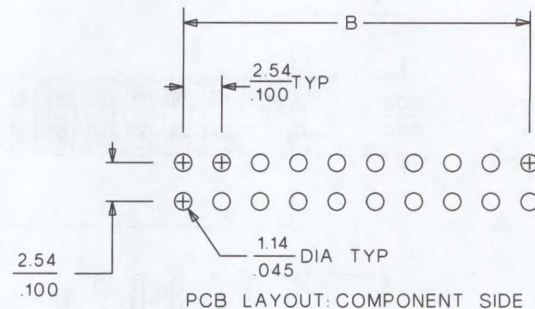
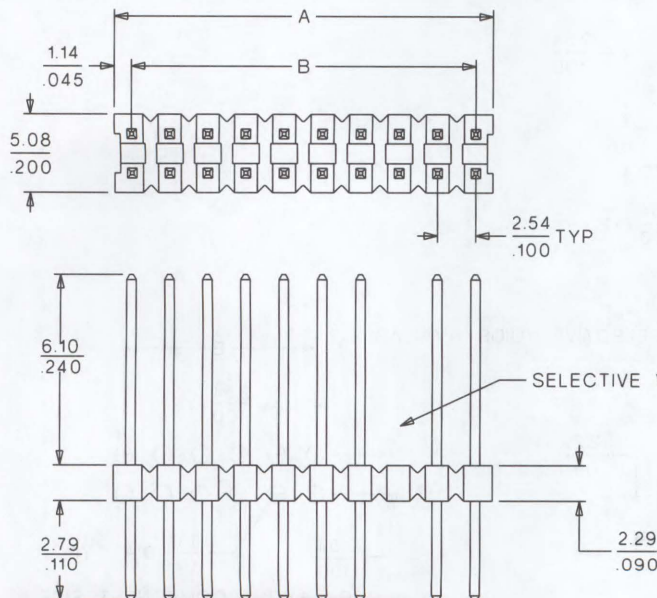
Dual Row, Vertical High-Temperature



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	• 10-89-7XX2
30μ" min. select Gold	• 10-89-7XX0
150μ" Tin/Lead, Nickel overall	• 10-89-7XX1
Replace XX with no. of circuits, 04-80 (even only), for 2-circuit, see 70343	

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Kinked PC tail in selected locations for retention to the board
- Stackable side-by-side and end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-8624

Packaging: Bag

UL File No.: E29179 (H)

CSA File No.: LR19980A

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

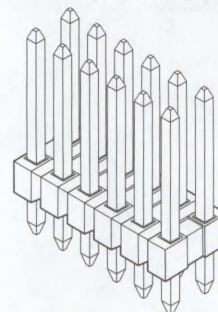
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® Retention Pin Breakaway Header

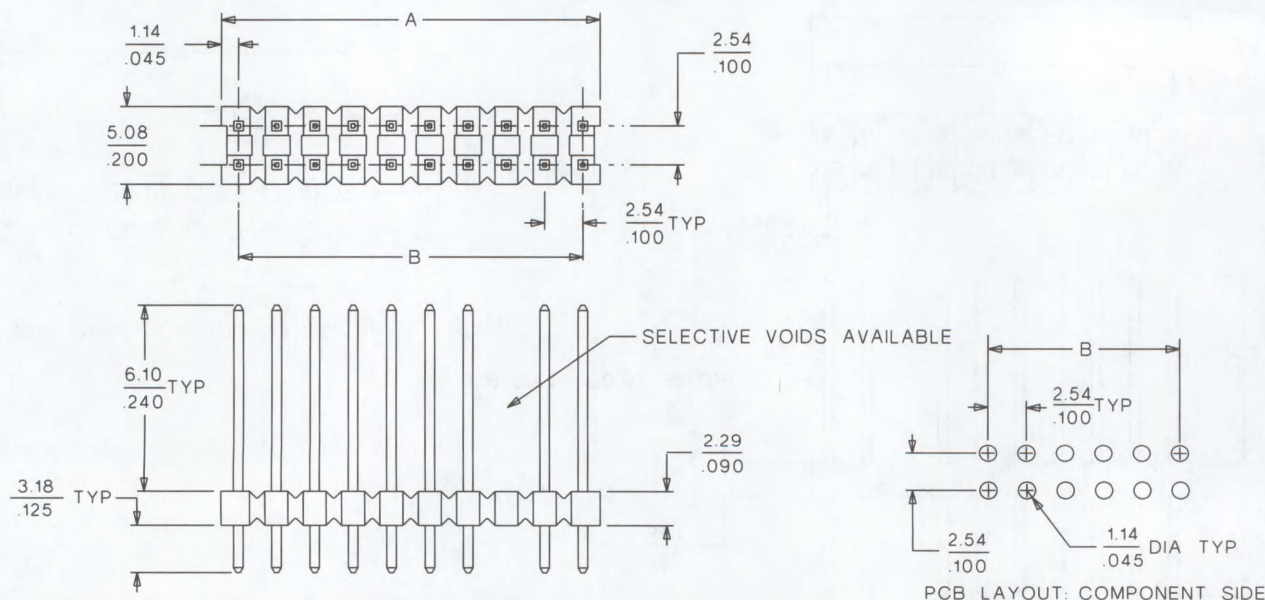
70287

Dual Row, Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	10-96-7XX5
30μ" min. select Gold	10-96-7XX7
150μ" Tin/Lead, Nickel overall	10-96-7XX3
Replace XX with no. of circuits, 04-80 (even only)	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Stackable side-to-side and end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square/round wire provides 4-sided smooth surface for quality interface
- Insertable into .035" PC hole: aids robotic insertion

Reference Information

Product Specification: PS-70260

Packaging: Bag

UL File No.: E29179 (F)

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

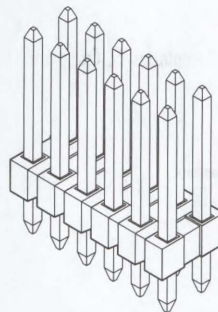
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® Breakaway Header

70260

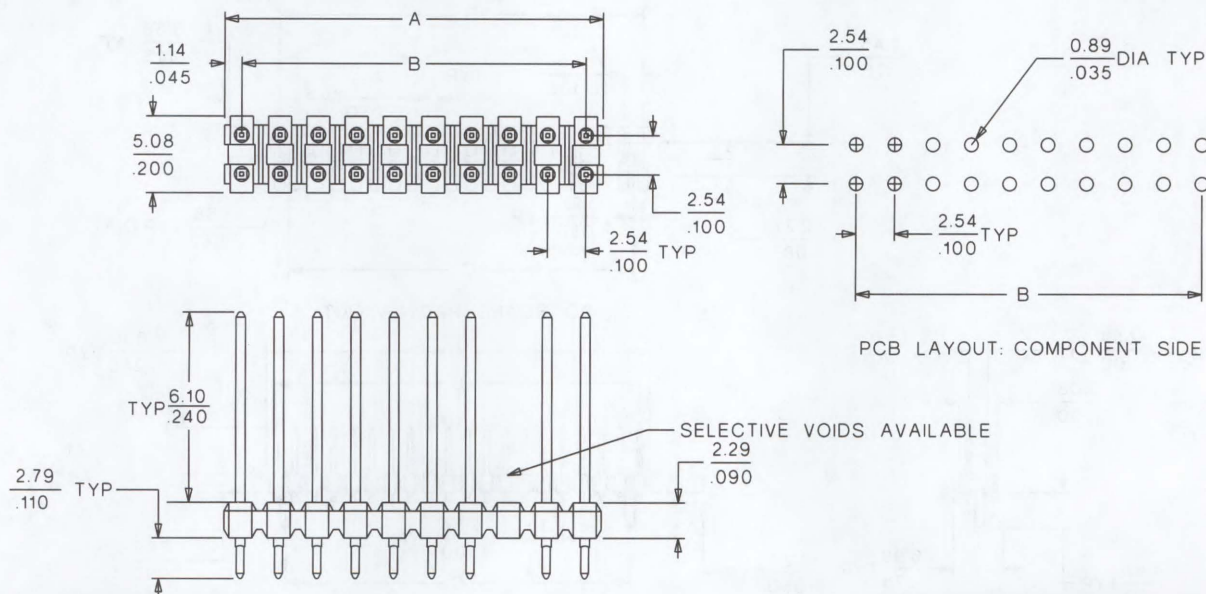
Dual Row, Vertical Square/Round Pin



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)

Circuits	Dimension	
	A	B
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)

Circuits	Dimension	
	A	B
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	• 10-89-6XX4
30μ" min. select Gold	• 10-89-6XX8
150μ" Tin/Lead, Nickel overall	• 10-89-6XX0
Replace XX with no. of circuits, 04-80 (even only)	

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Available with or without retention pegs
- Gull wing surface mount tails
- Vapor phase/IR reflow process compatible
- Stackable end-to-end (on unbroken edges)
- Drawn .025" square wire provides 4-sided smooth interface

Reference Information

Product Specification: PS-71308

Packaging: Tube or tape and reel*

UL File No.: E29179 (H)

CSA File No.: LR19980A

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and

IDT Housings

Designed In: Inches

* Contact Molex for tape and reel order numbers

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Insertion Force to PCB: 35.58N (8 lb) per peg

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

Housing: High temperature thermoplastic, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

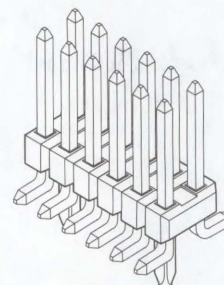
Screened Paste Thickness: .010 to .015"



2.54mm (.100") Pitch C-Grid® Breakaway Header

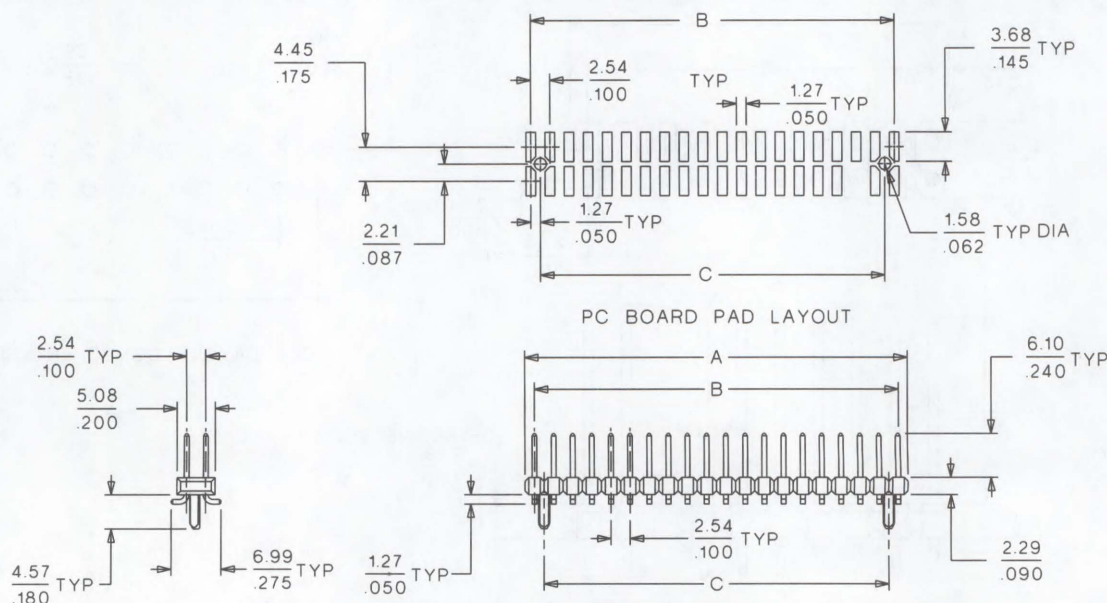
71308

Dual Row, SMT, Vertical With or Without Peg



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension		
	A	B	C
4	5.08 (.200)	2.54 (.100)	
6	7.62 (.300)	5.08 (.200)	2.54 (.100)
8	10.16 (.400)	7.62 (.300)	5.08 (.200)
10	12.70 (.500)	10.16 (.400)	7.62 (.300)
12	15.24 (.600)	12.70 (.500)	10.16 (.400)
14	17.78 (.700)	15.24 (.600)	12.70 (.500)
16	20.32 (.800)	17.78 (.700)	15.24 (.600)
18	22.86 (.900)	20.32 (.800)	17.78 (.700)
20	25.40 (1.000)	22.86 (.900)	20.32 (.800)
22	27.94 (1.100)	25.40 (1.000)	22.86 (.900)
24	30.48 (1.200)	27.94 (1.100)	25.40 (1.000)
26	33.02 (1.300)	30.48 (1.200)	27.94 (1.100)
28	35.56 (1.400)	33.02 (1.300)	30.48 (1.200)
30	38.10 (1.500)	35.56 (1.400)	33.02 (1.300)
32	40.64 (1.600)	38.10 (1.500)	35.56 (1.400)
34	43.18 (1.700)	40.64 (1.600)	38.10 (1.500)
36	45.72 (1.800)	43.18 (1.700)	40.64 (1.600)

Circuits	Dimension		
	A	B	C
38	48.26 (1.900)	45.72 (1.800)	43.18 (1.700)
40	50.80 (2.000)	48.26 (1.900)	45.72 (1.800)
42	53.34 (2.100)	50.80 (2.000)	48.26 (1.900)
44	55.88 (2.200)	53.34 (2.100)	50.80 (2.000)
46	58.42 (2.300)	55.88 (2.200)	53.34 (2.100)
48	60.96 (2.400)	58.42 (2.300)	55.88 (2.200)
50	63.50 (2.500)	60.96 (2.400)	58.42 (2.300)
52	66.04 (2.600)	63.50 (2.500)	60.96 (2.400)
54	68.58 (2.700)	66.04 (2.600)	63.50 (2.500)
56	71.12 (2.800)	68.58 (2.700)	66.04 (2.600)
58	73.66 (2.900)	71.12 (2.800)	68.58 (2.700)
60	76.20 (3.000)	73.66 (2.900)	71.12 (2.800)
62	78.74 (3.100)	76.20 (3.000)	73.66 (2.900)
64	81.28 (3.200)	78.74 (3.100)	76.20 (3.000)
66	83.82 (3.300)	81.28 (3.200)	78.74 (3.100)
68	86.36 (3.400)	83.82 (3.300)	81.28 (3.200)
70	88.90 (3.500)	86.36 (3.400)	83.82 (3.300)

Circuits	Dimension		
	A	B	C
72	91.44 (3.600)	88.90 (3.500)	86.36 (3.400)
74	93.98 (3.700)	91.44 (3.600)	88.90 (3.500)
76	96.52 (3.800)	93.98 (3.700)	91.44 (3.600)
78	99.06 (3.900)	96.52 (3.800)	93.98 (3.700)
80	101.60 (4.000)	99.06 (3.900)	96.52 (3.800)

Plating Option	Order No.	
	Without PCB Retention Pegs	With PCB Retention Pegs
15μ" min. select Gold	15-91-0XX0	15-91-1XX2
30μ" min. select Gold	15-91-3XX0	15-91-1XX3
150μ" min. Tin	15-91-2XX0	15-91-1XX1

Replace XX with no. of circuits, 04-80 (even only)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Low profile: .200" high
- Stackable end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70203

Packaging: Tube

UL File No.: E29179 (H)

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

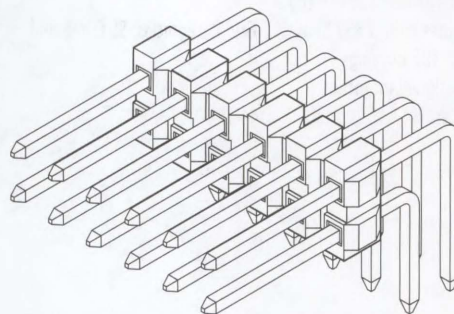
Plating: See Table

Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Breakaway Header

70203

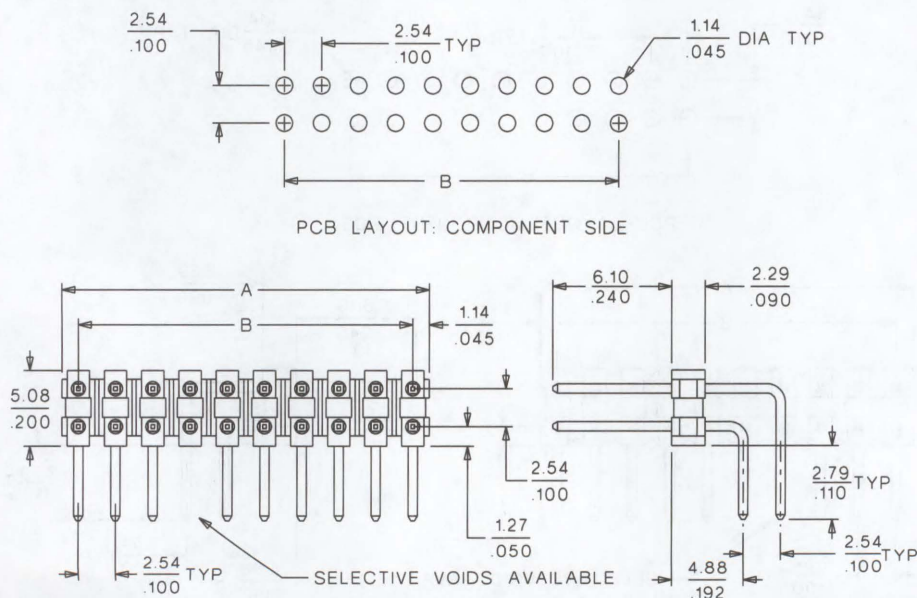
Low Profile, Dual Row Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	• 10-89-1XX6
30μ" min. select Gold	• 10-89-2XX6
150μ" Tin/Lead, Nickel overall	• 10-88-1XX5
Replace XX with no. of circuits, 04-80 (even only), for 2-circuit, see 70344	

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Low profile: .200" high
- Stackable end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface
- High-temperature wafer for SMT compatibility

Reference Information

Packaging: Tube
UL File No.: E29179 (H)
Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings
Designed In: Inches

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)
Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

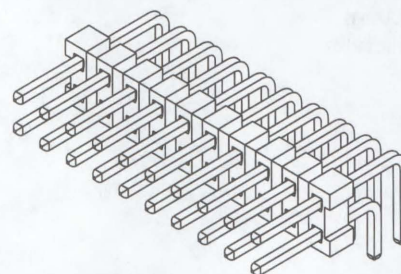
Housing: High-temperature thermal plastic, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C



2.54mm (.100") C-Grid® Breakaway Header

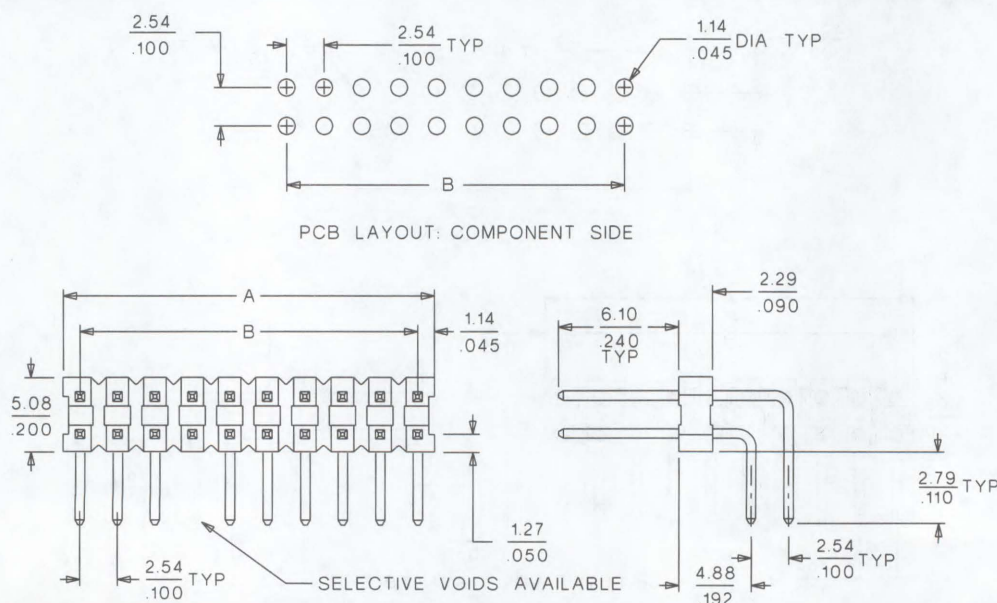
71764

**Low Profile, Dual Row
Right Angle,
High-Temperature**



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	71764-01XX
30μ" min. select Gold	71764-02XX
150μ" Tin/Lead, Nickel overall	71764-00XX
Replace XX with no. of circuits, 04-80 (even only)	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Kinked PC tail for retention to the board
- Stackable end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-8624

Packaging: Tube

UL File No.: E29179 (N)

CSA File No.: LR19980A

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and

IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

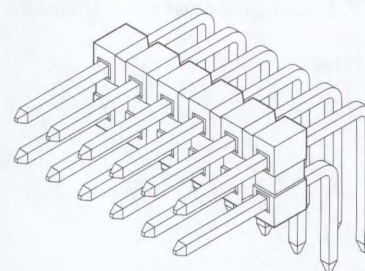
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® Retention Pin Breakaway Header

70524

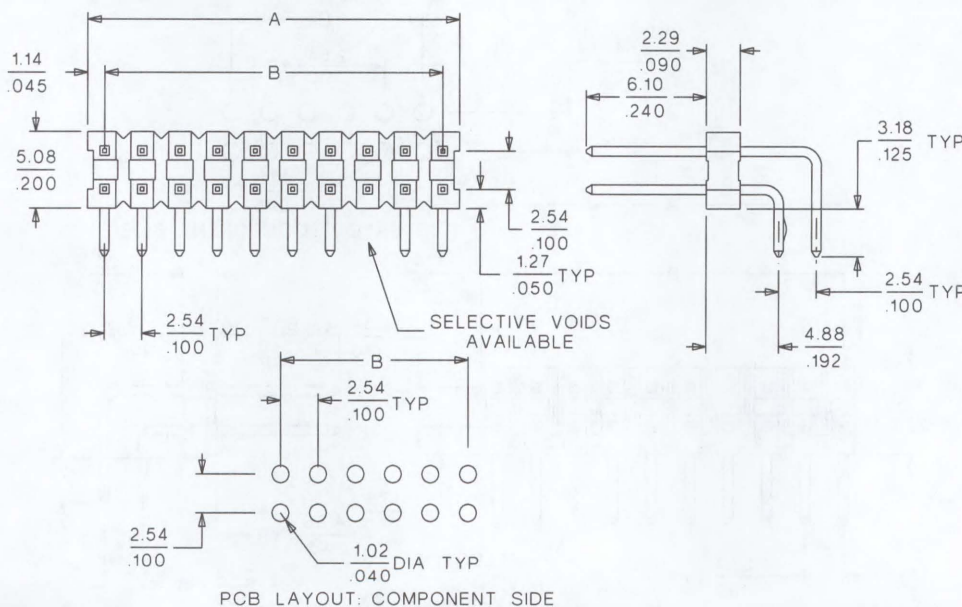
Low Profile, Dual Row Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- High profile: .220" high
- Stackable end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70216

Packaging: Tube

UL File No.: E29179 (H)

CSA File No.: LR19980A

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and

IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

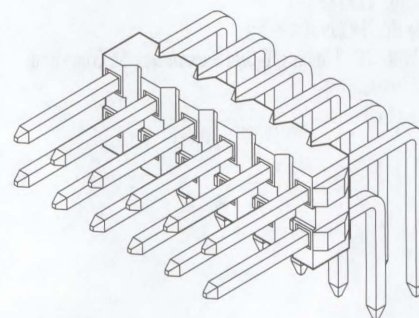
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® Breakaway Header

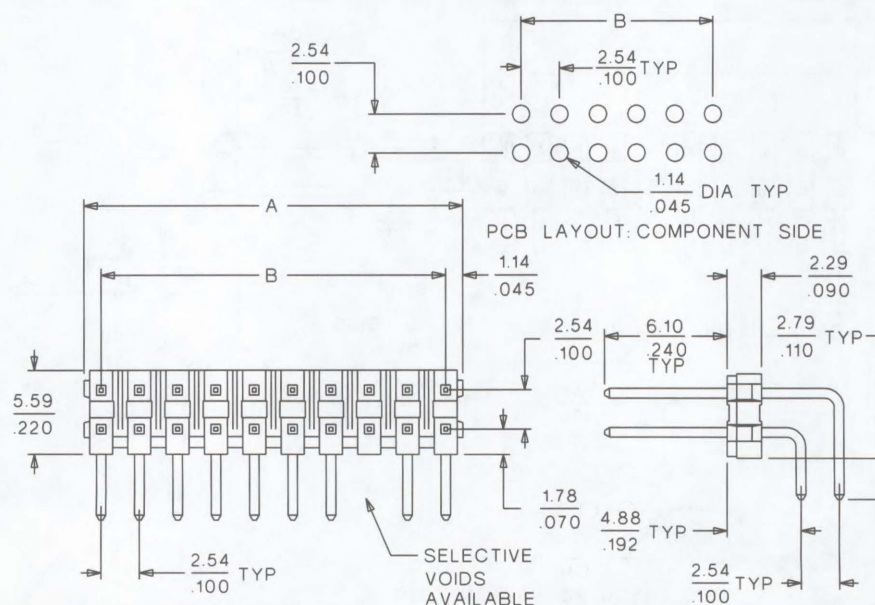
70216

High Profile, Dual Row Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	• 10-89-4XX2
30μ" min. select Gold	• 10-89-4XX6
150μ" Tin/Lead, Nickel overall	• 10-88-3XX1
Replace XX with no. of circuits, 04-80 (even only)	

• US Standard Product, available through Molex franchised distributors (80 circuit only)

molex® 2.54mm (.100") Pitch
C-Grid®
Retention Pin
Breakaway Header

Features and Benefits

- Sizes 4 to 80 circuits
- Kinked PC tail for retention to the board
- Stackable end-to-end (on unbroken edges)
- Extremely stable on board during wave soldering
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-8624

Packaging: Tube

UL File No.: E29179 (H)

CSA File No.: LR19980A

Mates With: 7859 Shunts, C-Grid Receptacles, SL Crimp and IDT Housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Header: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

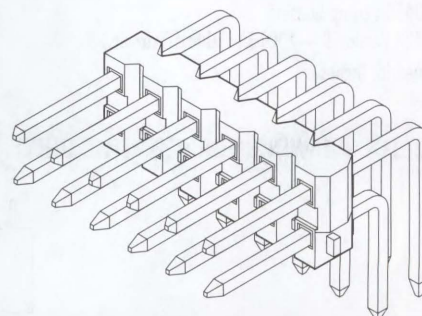
Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

70289

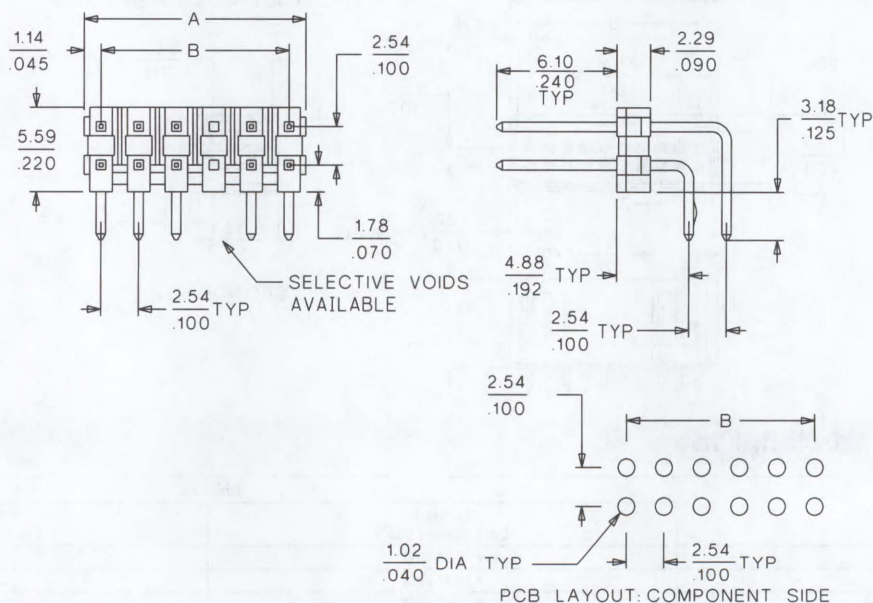
High Profile, Dual Row Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.300)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	• 10-97-0XX3
30μ" min. select Gold	• 10-97-0XX7
150μ" Tin/Lead, Nickel overall	• 10-96-4XX8
Replace XX with no. of circuits, 04-80 (even only)	

- US Standard Product, available through Molex franchised distributors

2.54mm (.100") Pitch

- Polarized
- Latch window retains positive lock on 70013 after mating
- 4 wall shielding provides unmated pin protection
- 4-sided smooth surface pin for quality interface
- High temperature version 70567

Product Specification: PS-8723

Packaging: Tube

UL File No.: E29179 (J)

Mates With: 8723 Version A—C-Grid Receptacles, and
70450A crimp housing

8723 Version B—70013A (10 to 50 circuits)

Designed In: Inches

Voltage: 250V
 Current: 3.0A
 Contact Resistance: 15m Ω max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 1000 M Ω min.

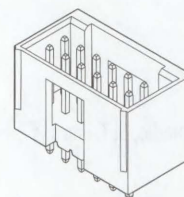
Pin Retention to Housing: 17.79N (4 lb)
Durability: 25 cycles Tin/Lead and 50 cycles Gold

Housing: Glass-filled polyester, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C

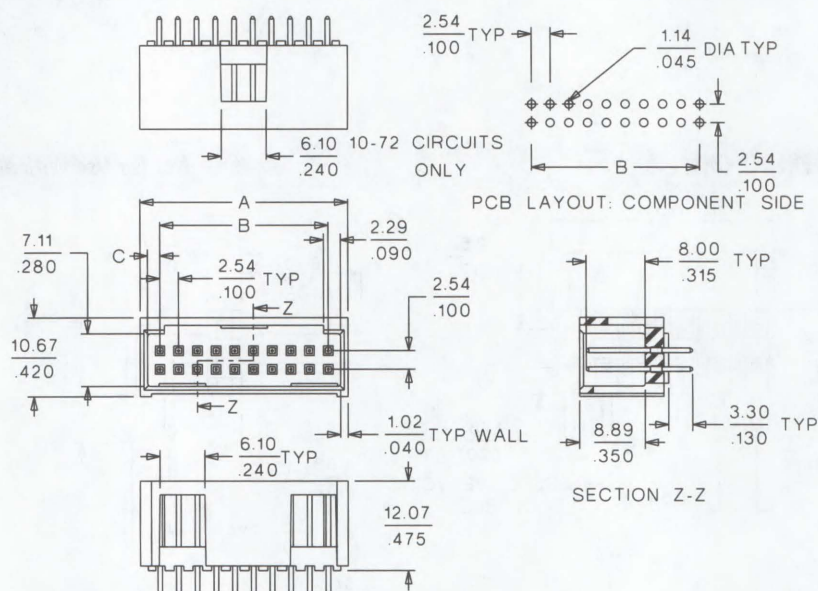


8723

Dual Row, Vertical



Not For Use With C-Grid III™ Components



Plating Option	Order No.	
	Version A C = 1.68mm (.066")	Version B C = 3.81mm (.150")
15μ" Gold	• 15-29-60XX	15-29-62XX
30μ" Gold	• 15-41-70XX	15-41-72XX
150μ" Tin/Lead	• 15-42-60XX	15-42-62XX

Replace XX with no. of circuits, 06-72 (even only)

Circuits	Dimension			
	Version A		Version B	
	A	B	A	B
6	10.47 (.412)	5.08 (.200)	14.74 (.580)	5.08 (.200)
8	13.01 (.512)	7.62 (.300)	17.28 (.680)	7.62 (.300)
10	15.55 (.612)	10.16 (.400)	19.82 (.780)	10.16 (.400)
12	18.09 (.712)	12.70 (.500)	22.36 (.880)	12.70 (.500)
14	20.63 (.812)	15.24 (.600)	24.90 (.980)	15.24 (.600)
16	23.17 (.912)	17.78 (.700)	27.44 (1.080)	17.78 (.700)
18	25.71 (1.012)	20.32 (.800)	29.98 (1.180)	20.32 (.800)
20	28.25 (1.112)	22.86 (.900)	32.52 (1.280)	22.86 (.900)
22	30.79 (1.212)	25.40 (1.000)	35.06 (1.380)	25.40 (1.000)
24	33.33 (1.312)	27.94 (1.100)	37.60 (1.480)	27.94 (1.100)
26	35.87 (1.412)	30.48 (1.200)	40.14 (1.580)	30.48 (1.200)
28	38.41 (1.512)	33.02 (1.300)	42.68 (1.680)	33.02 (1.300)
30	40.95 (1.612)	35.56 (1.400)	45.22 (1.780)	35.56 (1.400)
32	43.49 (1.712)	38.10 (1.500)	47.76 (1.880)	38.10 (1.500)
34	46.03 (1.812)	40.64 (1.600)	50.30 (1.980)	40.64 (1.600)
36	48.57 (1.912)	43.18 (1.700)	52.84 (2.080)	43.18 (1.700)
38	51.11 (2.012)	45.72 (1.800)	55.38 (2.180)	45.72 (1.800)

Circuits	Dimension			
	Version A		Version B	
	A	B	A	B
40	53.65 (2.112)	48.26 (1.900)	57.92 (2.280)	48.26 (1.900)
42	56.19 (2.212)	50.80 (2.000)	60.46 (2.380)	50.80 (2.000)
44	58.73 (2.312)	53.34 (2.100)	63.00 (2.480)	53.34 (2.100)
46	61.27 (2.412)	55.88 (2.200)	65.54 (2.580)	55.88 (2.200)
48	63.81 (2.512)	58.42 (2.300)	68.08 (2.680)	58.42 (2.300)
50	66.35 (2.612)	60.96 (2.400)	70.62 (2.780)	60.96 (2.400)
52	68.89 (2.712)	63.50 (2.500)	73.16 (2.880)	63.50 (2.500)
54	71.43 (2.812)	66.04 (2.600)	75.70 (2.980)	66.04 (2.600)
56	73.97 (2.912)	68.58 (2.700)	78.24 (3.080)	68.58 (2.700)
58	76.51 (3.012)	71.12 (2.800)	80.78 (3.180)	71.12 (2.800)
60	79.05 (3.112)	73.66 (2.900)	83.32 (3.280)	73.66 (2.900)
62	81.59 (3.212)	76.20 (3.000)	85.86 (3.380)	76.20 (3.000)
64	84.13 (3.312)	78.74 (3.100)	88.40 (3.480)	78.74 (3.100)
66	86.67 (3.412)	81.28 (3.200)	90.94 (3.580)	81.28 (3.200)
68	89.21 (3.512)	83.82 (3.300)	93.48 (3.680)	83.82 (3.300)
70	91.75 (3.612)	86.36 (3.400)	96.02 (3.780)	86.36 (3.400)
72	94.29 (3.712)	88.90 (3.500)	98.56 (3.880)	88.90 (3.500)

- US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Polarized
- Latch window retains positive lock on 70013 after mating
- 4 wall shielding provides unmated pin protection
- Standoffs minimize flux retention
- 4-sided smooth surface pin for quality interface

Reference Information

Product Specification: PS-8723

Packaging: Tube

UL File No.: E29179 (H)

Mates With: 8724 Version A—C-Grid Receptacles, and

70450A crimp housing

8724 Version B—70013A (10 to 50 circuits)

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Housing: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

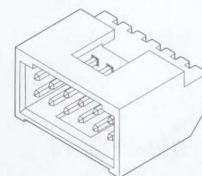
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch
C-Grid®
Shrouded Header

8724

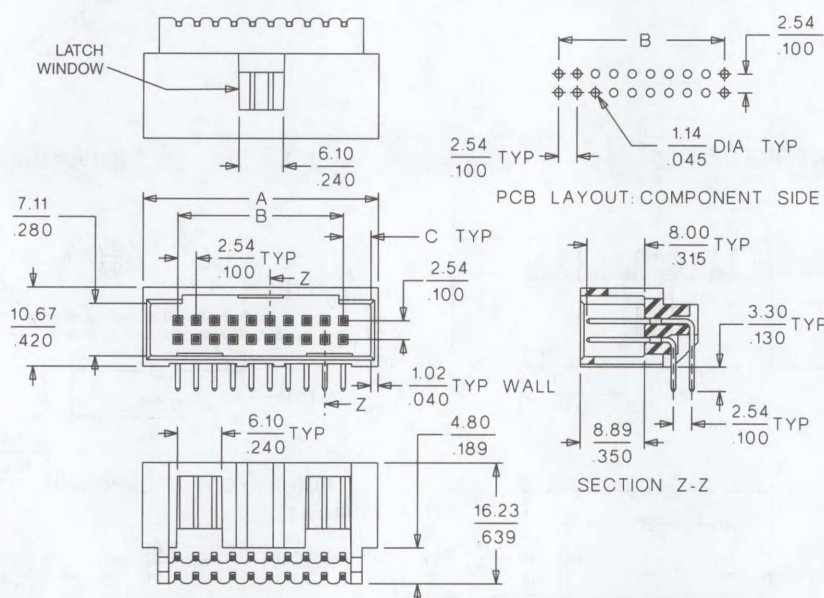
Dual Row
Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Plating Option	Order No.	
	Version A [†] C = 1.68mm (.066")	Version B C = 3.81mm (.150")
15μ" Gold	• 15-29-70XX	15-29-72XX
30μ" Gold	• 15-41-80XX	15-41-82XX
150μ" Tin/Lead	• 15-42-70XX	15-42-72XX

Replace XX with no. of circuits, 06-72 (even only)

Circuits	Dimension			
	Version A		Version B	
	A	B	A	B
6*	10.47 (.412)	5.08 (.200)	14.74 (.580)	5.08 (.200)
8*	13.01 (.512)	7.62 (.300)	17.28 (.680)	7.62 (.300)
10	15.55 (.612)	10.16 (.400)	19.82 (.780)	10.16 (.400)
12	18.09 (.712)	12.70 (.500)	22.36 (.880)	12.70 (.500)
14	20.63 (.812)	15.24 (.600)	24.90 (.980)	15.24 (.600)
16	23.17 (.912)	17.78 (.700)	27.44 (1.080)	17.78 (.700)
18	25.71 (1.012)	20.32 (.800)	29.98 (1.180)	20.32 (.800)
20	28.25 (1.112)	22.86 (.900)	32.52 (1.280)	22.86 (.900)
22	30.79 (1.212)	25.40 (1.000)	35.06 (1.380)	25.40 (1.000)
24	33.33 (1.312)	27.94 (1.100)	37.60 (1.480)	27.94 (1.100)
26	35.87 (1.412)	30.48 (1.200)	40.14 (1.580)	30.48 (1.200)
28	38.41 (1.512)	33.02 (1.300)	42.68 (1.680)	33.02 (1.300)
30	40.95 (1.612)	35.56 (1.400)	45.22 (1.780)	35.56 (1.400)
32	43.49 (1.712)	38.10 (1.500)	47.76 (1.880)	38.10 (1.500)
34	46.03 (1.812)	40.64 (1.600)	50.30 (1.980)	40.64 (1.600)
36	48.57 (1.912)	43.18 (1.700)	52.84 (2.080)	43.18 (1.700)
38	51.11 (2.012)	45.72 (1.800)	55.38 (2.180)	45.72 (1.800)

Circuits	Dimension			
	Version A		Version B	
	A	B	A	B
40	53.65 (2.112)	48.26 (1.900)	57.92 (2.280)	48.26 (1.900)
42	56.19 (2.212)	50.80 (2.000)	60.46 (2.380)	50.80 (2.000)
44	58.73 (2.312)	53.34 (2.100)	63.00 (2.480)	53.34 (2.100)
46	61.27 (2.412)	55.88 (2.200)	65.54 (2.580)	55.88 (2.200)
48	63.81 (2.512)	58.42 (2.300)	68.08 (2.680)	58.42 (2.300)
50	66.35 (2.612)	60.96 (2.400)	70.62 (2.780)	60.96 (2.400)
52	68.89 (2.712)	63.50 (2.500)	73.16 (2.880)	63.50 (2.500)
54	71.43 (2.812)	66.04 (2.600)	75.70 (2.980)	66.04 (2.600)
56	73.97 (2.912)	68.58 (2.700)	78.24 (3.080)	68.58 (2.700)
58	76.51 (3.012)	71.12 (2.800)	80.78 (3.180)	71.12 (2.800)
60	79.05 (3.112)	73.66 (2.900)	83.32 (3.280)	73.66 (2.900)
62	81.59 (3.212)	76.20 (3.000)	85.86 (3.380)	76.20 (3.000)
64	84.13 (3.312)	78.74 (3.100)	88.40 (3.480)	78.74 (3.100)
66	86.67 (3.412)	81.28 (3.200)	90.94 (3.580)	81.28 (3.200)
68	89.21 (3.512)	83.82 (3.300)	93.48 (3.680)	83.82 (3.300)
70	91.75 (3.612)	86.36 (3.400)	96.02 (3.780)	86.36 (3.400)
72	94.29 (3.712)	88.90 (3.500)	98.56 (3.880)	88.90 (3.500)

* US Standard Product, available through Molex franchised distributors

* Note: No latching window available for 6-circuit and 8-circuit—Version A; No latching window available for 6-circuit—Version B

[†] Version A is never to be used with interim clips

Note: Dimension C = End Wall

MX01

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 72 circuits
- Robotically insertable and compatible
- Board retention pegs hold header in place until they are permanently secured by soldering
- Latch window retains modular connector assemblies after mating
- Standoffs minimize flux retention
- Round PC tails allow smaller PCB holes and aid robotic insertion
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70567

Packaging: Tube

Mates With: C-Grid Vertical Receptacles, 70450A

crimp housing

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and

50 cycles Gold

Physical

Housing: High-temperature thermoplastic, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C



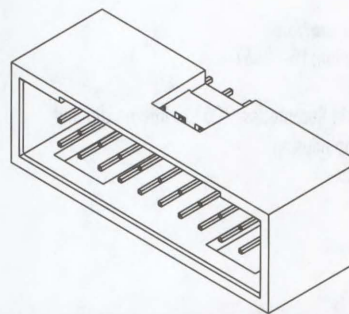
2.54mm (.100") Pitch

C-Grid®

Shrouded Header

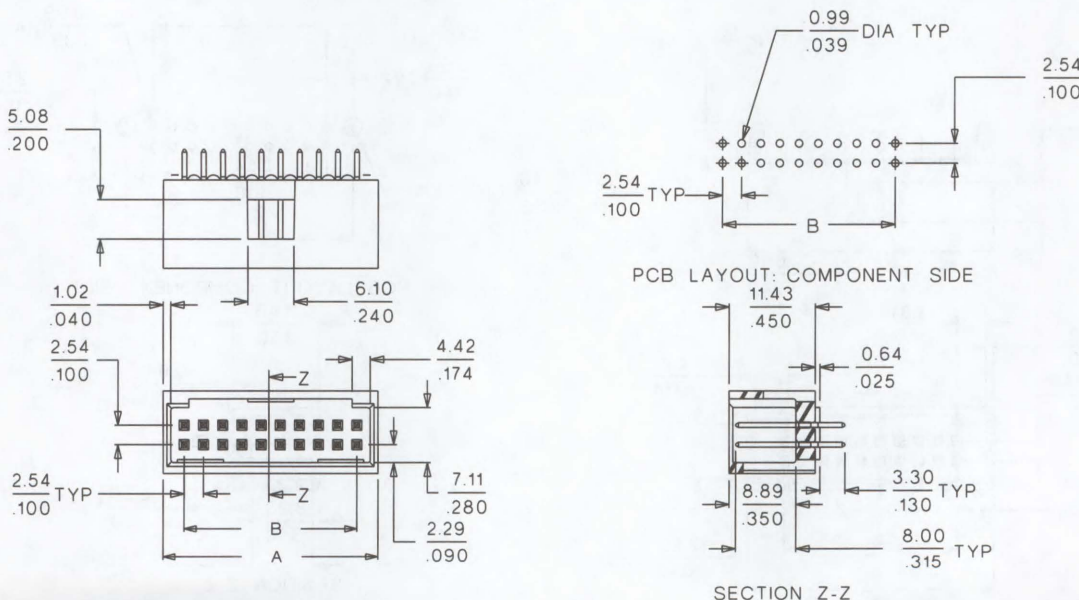
70567

Dual Row, High-Temperature
Through Hole without Pegs
Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
6	10.47 (.412)	5.08 (.200)
8	13.01 (.512)	7.62 (.300)
10	15.55 (.612)	10.16 (.400)
12	18.09 (.712)	12.70 (.500)
14	20.63 (.812)	15.24 (.600)
16	23.17 (.912)	17.78 (.700)
18	25.71 (1.012)	20.32 (.800)
20	28.25 (1.112)	22.86 (.900)
22	30.79 (1.212)	25.40 (1.000)

Circuits	Dimension	
	A	B
24	33.33 (1.312)	27.94 (1.100)
26	35.87 (1.412)	30.48 (1.200)
28	38.41 (1.512)	33.02 (1.300)
30	40.95 (1.612)	35.56 (1.400)
32	43.49 (1.712)	38.10 (1.500)
34	46.03 (1.812)	40.64 (1.600)
36	48.57 (1.912)	43.18 (1.700)
38	51.11 (2.012)	45.72 (1.800)
40	53.65 (2.112)	48.26 (1.900)

Circuits	Dimension	
	A	B
42	56.19 (2.212)	50.80 (2.000)
44	58.73 (2.312)	53.34 (2.100)
46	61.27 (2.412)	55.88 (2.200)
48	63.81 (2.512)	58.42 (2.300)
50	66.35 (2.612)	60.96 (2.400)
52	68.89 (2.712)	63.50 (2.500)
54	71.43 (2.812)	66.04 (2.600)
56	73.97 (2.912)	68.58 (2.700)
58	76.51 (3.012)	71.12 (2.800)

Circuits	Dimension	
	A	B
60	79.05 (3.112)	73.66 (2.900)
62	81.59 (3.212)	76.20 (3.000)
64	84.13 (3.312)	78.74 (3.100)
66	86.67 (3.412)	81.28 (3.200)
68	89.21 (3.512)	83.82 (3.300)
70	91.75 (3.612)	86.36 (3.400)
72	94.29 (3.712)	88.90 (3.500)

Plating Option	Order No.
	End Wall = 1.68mm (.066")
15μ" min. select Gold	15-80-0XX3
30μ" min. select Gold	15-80-0XX5
150μ" Tin/Lead	15-80-0XX1

Replace XX with no. of circuits, 06-72 (even only)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 72 circuits
- Robotically insertable and compatible
- Board retention pegs hold header in place until they are permanently secured by soldering
- Latch window retains modular connector assemblies after mating
- Standoffs minimize flux retention
- Round PC tails allow smaller PCB holes and aid robotic insertion
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70567

Packaging: Tube

Mates With: C-Grid Receptacles, 70013B interim clip and

70450A crimp housing

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and

50 cycles Gold

Physical

Housing: High-temperature thermoplastic, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C



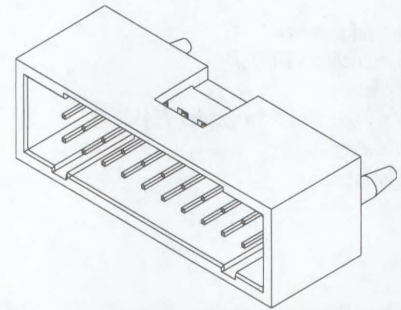
2.54mm (.100") Pitch

C-Grid®

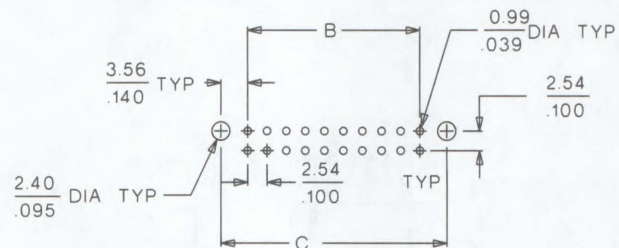
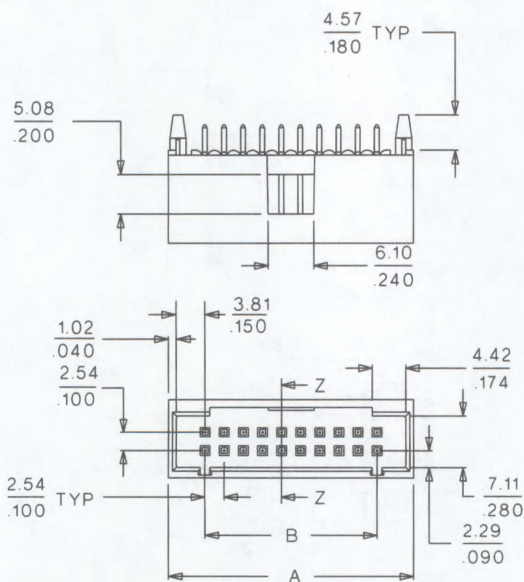
Shrouded Header

70568

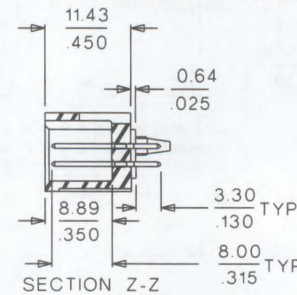
Dual Row, High-Temperature
Through Hole with Pegs
Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
6	14.74 (.580)	5.08 (.200)
8	17.28 (.680)	7.62 (.300)
10	19.82 (.780)	10.16 (.400)
12	22.36 (.880)	12.70 (.500)
14	24.90 (.980)	15.24 (.600)
16	27.44 (1.080)	17.78 (.700)
18	29.98 (1.180)	20.32 (.800)
20	32.52 (1.280)	22.86 (.900)
22	35.06 (1.380)	25.40 (1.000)

Circuits	Dimension	
	A	B
24	37.60 (1.480)	27.94 (1.100)
26	40.14 (1.580)	30.48 (1.200)
28	42.68 (1.680)	33.02 (1.300)
30	45.22 (1.780)	35.56 (1.400)
32	47.76 (1.880)	38.10 (1.500)
34	50.30 (1.980)	40.64 (1.600)
36	52.84 (2.080)	43.18 (1.700)
38	55.38 (2.180)	45.72 (1.800)
40	57.92 (2.280)	48.26 (1.900)

Circuits	Dimension	
	A	B
42	60.46 (2.380)	50.80 (2.000)
44	63.00 (2.480)	53.34 (2.100)
46	65.54 (2.580)	55.88 (2.200)
48	68.08 (2.680)	58.42 (2.300)
50	70.62 (2.780)	60.96 (2.400)
52	73.16 (2.880)	63.50 (2.500)
54	75.70 (2.980)	66.04 (2.600)
56	78.24 (3.080)	68.58 (2.700)
58	80.78 (3.180)	71.12 (2.800)

Circuits	Dimension	
	A	B
60	83.32 (3.280)	73.66 (2.900)
62	85.86 (3.380)	76.20 (3.000)
64	88.40 (3.480)	78.74 (3.100)
66	90.94 (3.580)	81.28 (3.200)
68	93.48 (3.680)	83.82 (3.300)
70	96.02 (3.780)	86.36 (3.400)
72	98.56 (3.880)	88.90 (3.500)

Plating Option	Order No.
15μ" min. select Gold	15-47-76XX
30μ" min. select Gold	15-47-77XX
150μ" Tin/Lead	15-47-75XX

Replace XX with no. of circuits, 06-72 (even only)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Fully shrouded to protect pins during mating/unmating
- Polarizing slots guide front ribs of mating connector to prevent pin damage
- Latch window retains positive lock after mating
- Press-fit peg provides additional retention to PCB during soldering

Reference Information

Product Specification: PSX-71349

Packaging Type: Tube

Mates with: C-Grid Receptacles, 70013 Version B interim clip and 70450A crimp housing

Designed in: Inches

Electrical

Electrical Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb.)

Durability: Tin/Lead—25 cycles

Gold—50 cycles

Physical

Physical Housing: Black glass-filled LCP, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

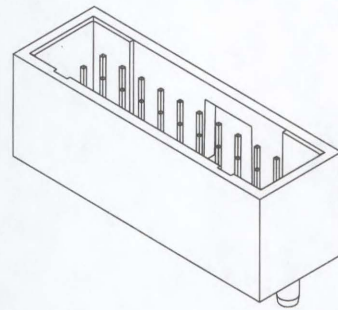
Operating Temperature: -40 to +105°C



2.54 (.100") Pitch C-Grid® Shrouded Header

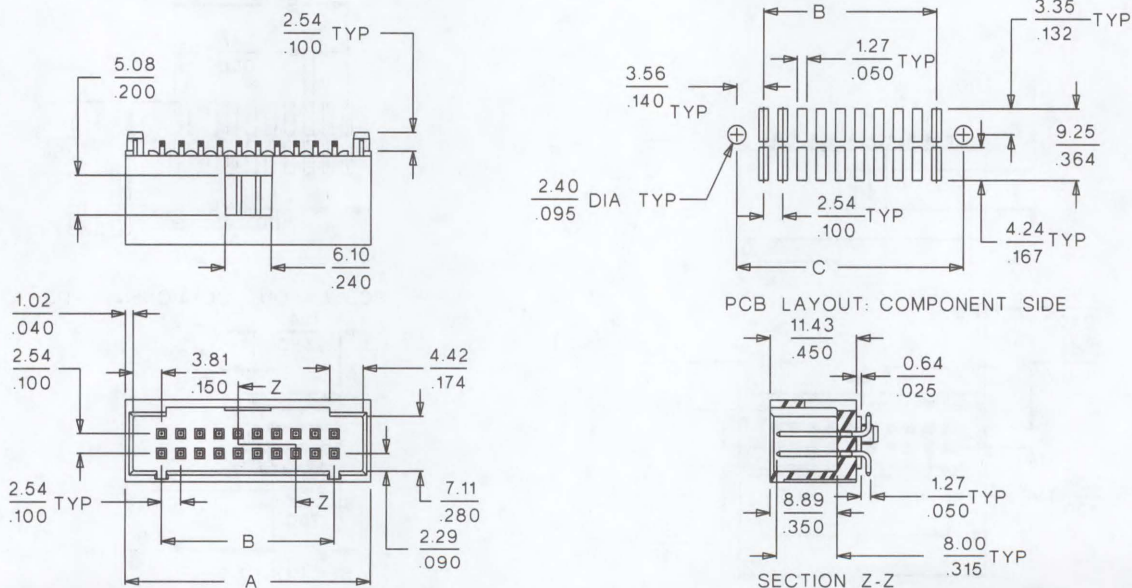
71349

Dual Row, SMT Vertical With Pegs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	150 Tin/Lead	15 Min. Gold	30 Min. Gold	A	B	C
6	71349-2001	71349-2035	71349-2069	14.73 (.580)	5.08 (.200)	12.19 (.480)
8	71349-2002	71349-2036	71349-2070	17.27 (.680)	7.62 (.300)	14.73 (.580)
10	71349-2003	71349-2037	71349-2071	19.81 (.780)	10.16 (.400)	17.27 (.680)
12	71349-2004	71349-2038	71349-2072	22.35 (.880)	12.70 (.500)	19.81 (.780)
14	71349-2005	71349-2039	71349-2073	24.89 (.980)	15.24 (.600)	22.35 (.880)
16	71349-2006	71349-2040	71349-2074	27.43 (1.080)	17.78 (.700)	24.89 (.980)
18	71349-2007	71349-2041	71349-2075	29.97 (1.180)	20.32 (.800)	27.43 (1.080)
20	71349-2008	71349-2042	71349-2076	32.51 (1.280)	22.86 (.900)	29.97 (1.180)
22	71349-2009	71349-2043	71349-2077	35.05 (1.380)	25.40 (1.000)	32.51 (1.280)
24	71349-2010	71349-2044	71349-2078	37.59 (1.480)	27.94 (1.100)	35.05 (1.380)
26	71349-2011	71349-2045	71349-2079	40.13 (1.580)	30.48 (1.200)	37.59 (1.480)
28	71349-2012	71349-2046	71349-2080	42.67 (1.680)	33.02 (1.300)	40.13 (1.580)
30	71349-2013	71349-2047	71349-2081	45.21 (1.780)	35.56 (1.400)	42.67 (1.680)
32	71349-2014	71349-2048	71349-2082	47.75 (1.880)	38.10 (1.500)	45.21 (1.780)
34	71349-2015	71349-2049	71349-2083	50.29 (1.980)	40.64 (1.600)	47.75 (1.880)
36	71349-2016	71349-2050	71349-2084	52.83 (2.080)	43.18 (1.700)	50.29 (1.980)
38	71349-2017	71349-2051	71349-2085	55.37 (2.180)	45.72 (1.800)	52.83 (2.080)

Circuits	Order No.			Dimension		
	150 Tin/Lead	15 Min. Gold	30 Min. Gold	A	B	C
40	71349-2018	71349-2052	71349-2086	57.91 (2.280)	48.26 (1.900)	55.37 (2.180)
42	71349-2019	71349-2053	71349-2087	60.45 (2.380)	50.80 (2.000)	57.91 (2.280)
44	71349-2020	71349-2054	71349-2088	62.99 (2.480)	53.34 (2.100)	60.45 (2.380)
46	71349-2021	71349-2055	71349-2089	65.53 (2.580)	55.88 (2.200)	62.99 (2.480)
48	71349-2022	71349-2056	71349-2090	68.07 (2.680)	58.42 (2.300)	65.53 (2.580)
50	71349-2023	71349-2057	71349-2091	70.61 (2.780)	60.96 (2.400)	68.07 (2.680)
52	71349-2024	71349-2058	71349-2092	73.15 (2.880)	63.50 (2.500)	70.61 (2.780)
54	71349-2025	71349-2059	71349-2093	75.69 (2.980)	66.04 (2.600)	73.15 (2.880)
56	71349-2026	71349-2060	71349-2094	78.23 (3.080)	68.58 (2.700)	75.69 (2.980)
58	71349-2027	71349-2061	71349-2095	80.77 (3.180)	71.12 (2.800)	78.23 (3.080)
60	71349-2028	71349-2062	71349-2096	83.31 (3.280)	73.66 (2.900)	80.77 (3.180)
62	71349-2029	71349-2063	71349-2097	85.85 (3.380)	76.20 (3.000)	83.31 (3.280)
64	71349-2030	71349-2064	71349-2098	88.39 (3.480)	78.74 (3.100)	85.85 (3.380)
66	71349-2031	71349-2065	71349-2099	90.93 (3.580)	81.28 (3.200)	88.39 (3.480)
68	71349-2032	71349-2066	71349-2100	93.47 (3.680)	83.82 (3.300)	90.93 (3.580)
70	71349-2033	71349-2067	71349-2101	96.01 (3.780)	86.36 (3.400)	93.47 (3.680)
72	71349-2034	71349-2068	71349-2102	98.55 (3.880)	88.90 (3.500)	96.01 (3.780)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Fully shrouded to protect pins during mating/unmating
- Polarizing slots guide front ribs of mating connector to prevent pin damage
- Latch window retains positive lock after mating

Reference Information

Product Specification: PSX-71349

Packaging Type: Tube

Mates with: C-Grid Receptacles, 70013 Version B interim clip

and 70450A crimp housing

Designed in: Inches

Electrical

Electrical Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 M Ω min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb.)

Durability: Tin/Lead—25 cycles

Gold—50 cycles

Physical

Physical Housing: Black glass-filled LCP, UL 94V-0

Contact: Phosphor Bronze

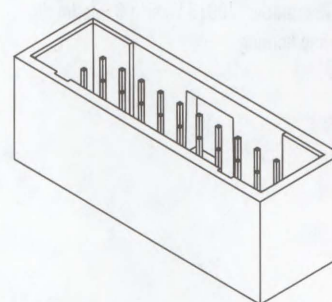
Plating: See Table

Operating Temperature: -40 to +105°C

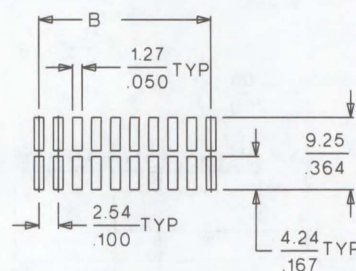
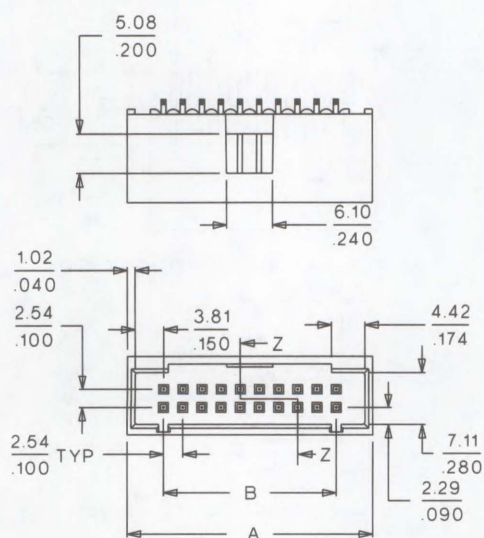
**molex® 2.54 (.100") Pitch
C-Grid®
Shrouded Header**

71349

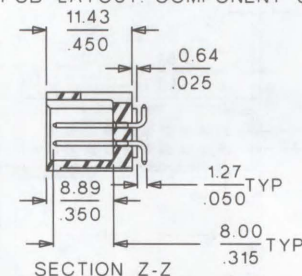
Dual Row, SMT Vertical Without Pegs



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	150 Tin/Lead	15 Min. Gold	30 Min. Gold	A	B
6	71349-1001	71349-1035	71349-1069	14.73 (.580)	5.08 (.200)
8	71349-1002	71349-1036	71349-1070	17.27 (.680)	7.62 (.300)
10	71349-1003	71349-1037	71349-1071	19.81 (.780)	10.16 (.400)
12	71349-1004	71349-1038	71349-1072	22.35 (.880)	12.70 (.500)
14	71349-1005	71349-1039	71349-1073	24.89 (.980)	15.24 (.600)
16	71349-1006	71349-1040	71349-1074	27.43 (1.080)	17.78 (.700)
18	71349-1007	71349-1041	71349-1075	29.97 (1.180)	20.32 (.800)
20	71349-1008	71349-1042	71349-1076	32.51 (1.280)	22.86 (.900)
22	71349-1009	71349-1043	71349-1077	35.05 (1.380)	25.40 (1.000)
24	71349-1010	71349-1044	71349-1078	37.59 (1.480)	27.94 (1.100)
26	71349-1011	71349-1045	71349-1079	40.13 (1.580)	30.48 (1.200)
28	71349-1012	71349-1046	71349-1080	42.67 (1.680)	33.02 (1.300)
30	71349-1013	71349-1047	71349-1081	45.21 (1.780)	35.56 (1.400)
32	71349-1014	71349-1048	71349-1082	47.75 (1.880)	38.10 (1.500)
34	71349-1015	71349-1049	71349-1083	50.29 (1.980)	40.64 (1.600)
36	71349-1016	71349-1050	71349-1084	52.83 (2.080)	43.18 (1.700)
38	71349-1017	71349-1051	71349-1085	55.37 (2.180)	45.72 (1.800)

Circuits	Order No.			Dimension	
	150 Tin/Lead	15 Min. Gold	30 Min. Gold	A	B
40	71349-1018	71349-1052	71349-1086	57.91 (2.280)	48.26 (1.900)
42	71349-1019	71349-1053	71349-1087	60.45 (2.380)	50.80 (2.000)
44	71349-1020	71349-1054	71349-1088	62.99 (2.480)	53.34 (2.100)
46	71349-1021	71349-1055	71349-1089	65.53 (2.580)	55.88 (2.200)
48	71349-1022	71349-1056	71349-1090	68.07 (2.680)	58.42 (2.300)
50	71349-1023	71349-1057	71349-1091	70.61 (2.780)	60.96 (2.400)
52	71349-1024	71349-1058	71349-1092	73.15 (2.880)	63.50 (2.500)
54	71349-1025	71349-1059	71349-1093	75.69 (2.980)	66.04 (2.600)
56	71349-1026	71349-1060	71349-1094	78.23 (3.080)	68.58 (2.700)
58	71349-1027	71349-1061	71349-1095	80.77 (3.180)	71.12 (2.800)
60	71349-1028	71349-1062	71349-1096	83.31 (3.280)	73.66 (2.900)
62	71349-1029	71349-1063	71349-1097	85.85 (3.380)	76.20 (3.000)
64	71349-1030	71349-1064	71349-1098	88.39 (3.480)	78.74 (3.100)
66	71349-1031	71349-1065	71349-1099	90.93 (3.580)	81.28 (3.200)
68	71349-1032	71349-1066	71349-1100	93.47 (3.680)	83.82 (3.300)
70	71349-1033	71349-1067	71349-1101	96.01 (3.780)	86.36 (3.400)
72	71349-1034	71349-1068	71349-1102	98.55 (3.880)	88.90 (3.500)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 72 circuits
- Round PC tails allow smaller PCB holes and aid robotic insertion
- Board retention pegs hold header in place until they are permanently secured by soldering
- Latch window retains positive lock on 70013 after mating

Reference Information

Product Specification: PS-70227

Packaging: Tube

UL File No.: E29179 (H)

Mates With: Version A—C-Grid Receptacles, 70013 interim clip and 70450A crimp housing

Version B—70013A (10 to 50 circuits)

Version C—70013B

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Housing: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

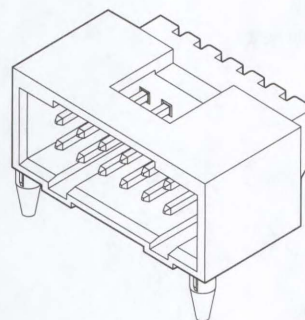
Plating: See Table

Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Shrouded Header

70229

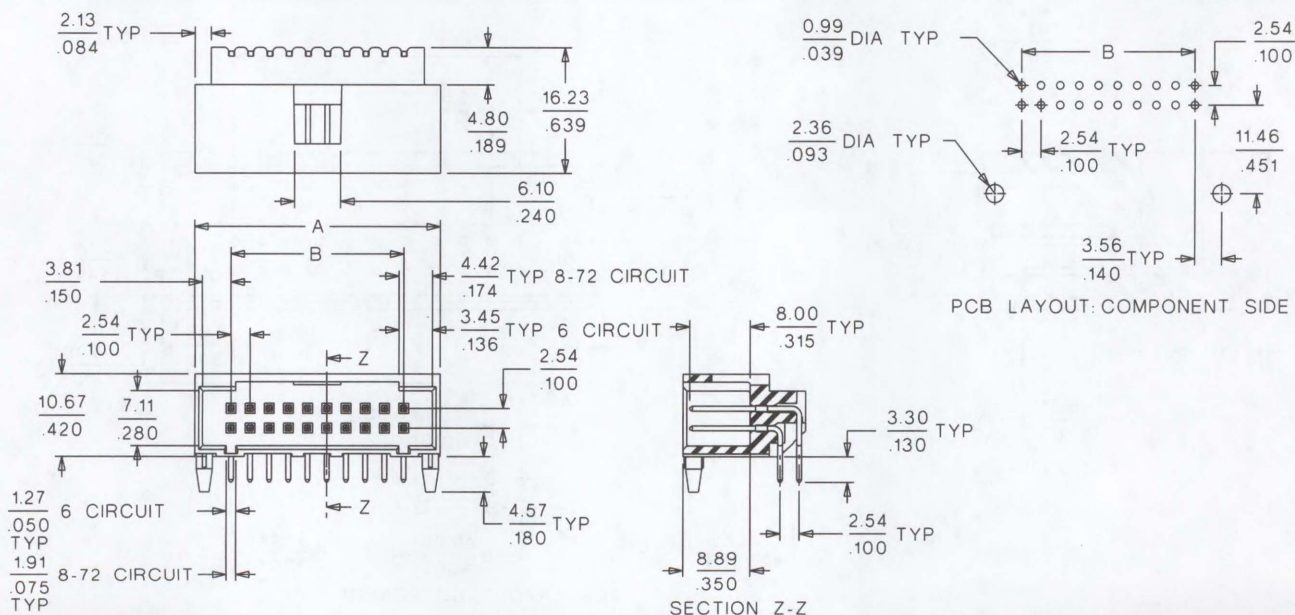
Dual Row, Right Angle With Retention Pegs



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	15μ" min. Select Gold	150μ" Tin/Lead	A	B
6	15-47-6061	15-47-1061	14.74 (.580)	5.08 (.200)
8	15-47-6081	15-47-1081	17.28 (.680)	7.62 (.300)
10	15-47-6101	15-47-1101	19.82 (.780)	10.16 (.400)
12	15-47-6121	15-47-1121	22.36 (.880)	12.70 (.500)
14	15-47-6141	15-47-1141	24.90 (.980)	15.24 (.600)
16	15-47-6161	15-47-1161	27.44 (1.080)	17.78 (.700)
18	15-47-6181	15-47-1181	29.98 (1.180)	20.32 (.800)
20	15-47-6201	15-47-1201	32.52 (1.280)	22.86 (.900)
22	15-47-6221	15-47-1221	35.06 (1.380)	25.40 (1.000)
24	15-47-6241	15-47-1241	37.60 (1.480)	27.94 (1.100)
26	15-47-6261	15-47-1261	40.14 (1.580)	30.48 (1.200)
28	15-47-6281	15-47-1281	42.68 (1.680)	33.02 (1.300)
30	15-47-6301	15-47-1301	45.22 (1.780)	35.56 (1.400)
32	15-47-6321	15-47-1321	47.76 (1.880)	38.10 (1.500)
34	15-47-6341	15-47-1341	50.30 (1.980)	40.64 (1.600)
36	15-47-6361	15-47-1361	52.84 (2.080)	43.18 (1.700)
38	15-47-6381	15-47-1381	55.38 (2.180)	45.72 (1.800)

Circuits	Order No.		Dimension	
	15μ" min. Select Gold	150μ" Tin/Lead	A	B
40	15-47-6401	15-47-1401	57.92 (2.280)	48.26 (1.900)
42	15-47-6421	15-47-1421	60.46 (2.380)	50.80 (2.000)
44	15-47-6441	15-47-1441	63.00 (2.480)	53.34 (2.100)
46	15-47-6461	15-47-1461	65.54 (2.580)	55.88 (2.200)
48	15-47-6481	15-47-1481	68.08 (2.680)	58.42 (2.300)
50	15-47-6501	15-47-1501	70.62 (2.780)	60.96 (2.400)
52	15-47-6521	15-47-1521	73.16 (2.880)	63.50 (2.500)
54	15-47-6541	15-47-1541	75.70 (2.980)	66.04 (2.600)
56	15-47-6561	15-47-1561	78.24 (3.080)	68.58 (2.700)
58	15-47-6581	15-47-1581	80.78 (3.180)	71.12 (2.800)
60	15-47-6601	15-47-1601	83.32 (3.280)	73.66 (2.900)
62	15-47-6621	15-47-1621	85.86 (3.380)	76.20 (3.000)
64	15-47-6641	15-47-1641	88.40 (3.480)	78.74 (3.100)
66	15-47-6661	15-47-1661	90.94 (3.580)	81.28 (3.200)
68	15-47-6681	15-47-1681	93.48 (3.680)	83.82 (3.300)
70	15-47-6701	15-47-1701	96.02 (3.780)	86.36 (3.400)
72	15-47-6721	15-47-1721	98.56 (3.880)	88.90 (3.500)

Available without polarization slots, no pegs (8723 and 8724)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 130 circuits
- With PC slot and guide ears for blind-mate applications
- Polarization slots and guide ears assure error free mating
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70204
Packaging: Tray
UL File No.: E29179 (H)
CSA File No.: LR19980A
Mates With: 71973 with flange
Designed In: Inches

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb)
Durability: 25 cycles Tin/Lead and 50 cycles Gold

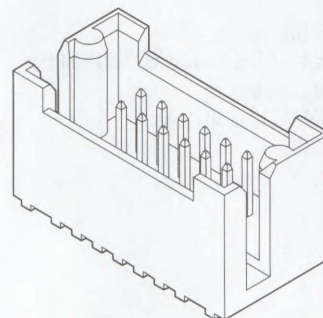
Physical

Housing: Glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Shrouded Header

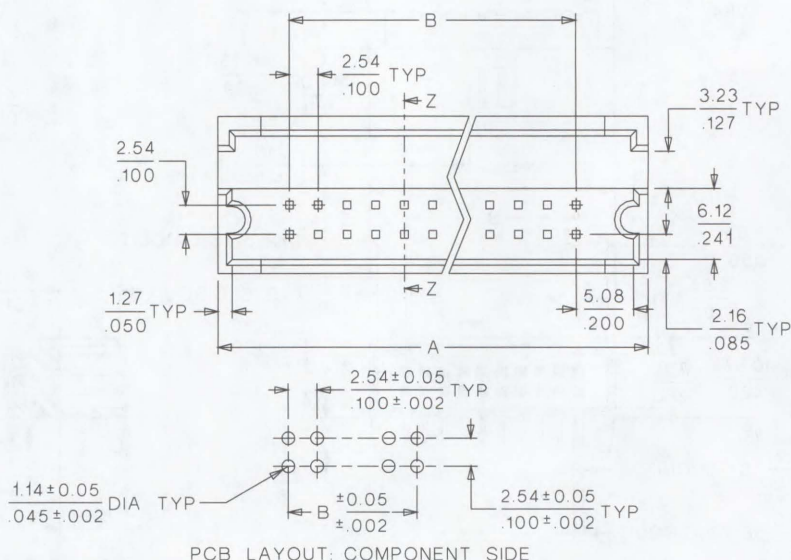
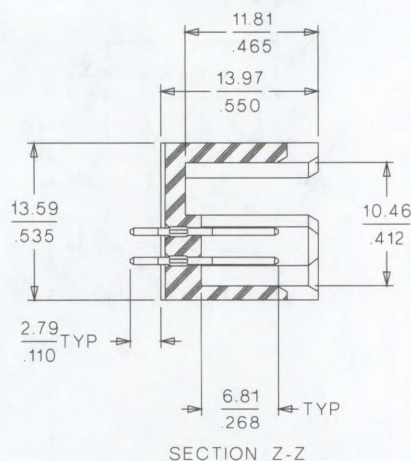
70204

Dual Row With PC Slot and Guide Ears



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
8	20.32 (.800)	7.62 (.300)
10	22.86 (.900)	10.16 (.400)
12	25.40 (1.000)	12.70 (.500)
14	27.94 (1.100)	15.24 (.600)
16	30.48 (1.200)	17.78 (.700)
18	33.02 (1.300)	20.32 (.800)
20	35.56 (1.400)	22.86 (.900)
22	38.10 (1.500)	25.40 (1.000)
24	40.64 (1.600)	27.94 (1.100)
26	43.18 (1.700)	30.48 (1.200)
28	45.72 (1.800)	33.02 (1.300)
30	48.26 (1.900)	35.56 (1.400)
32	50.80 (2.000)	38.10 (1.500)
34	53.34 (2.100)	40.64 (1.600)
36	55.88 (2.200)	43.18 (1.700)
38	58.42 (2.300)	45.72 (1.800)
40	60.96 (2.400)	48.26 (1.900)

Circuits	Dimension	
	A	B
42	63.50 (2.500)	50.80 (2.000)
44	66.04 (2.600)	53.34 (2.100)
46	68.58 (2.700)	55.88 (2.200)
48	71.12 (2.800)	58.42 (2.300)
50	73.66 (2.900)	60.96 (2.400)
52	76.20 (3.000)	63.50 (2.500)
54	78.74 (3.100)	66.04 (2.600)
56	81.28 (3.200)	68.58 (2.700)
58	83.82 (3.300)	71.12 (2.800)
60	86.36 (3.400)	73.66 (2.900)
62	88.90 (3.500)	76.20 (3.000)
64	91.44 (3.600)	78.74 (3.100)
66	93.98 (3.700)	81.28 (3.200)
68	96.52 (3.800)	83.82 (3.300)
70	99.06 (3.900)	86.36 (3.400)
72	101.60 (4.000)	88.90 (3.500)
74	104.14 (4.100)	91.44 (3.600)

Circuits	Dimension	
	A	B
76	106.68 (4.200)	93.98 (3.700)
78	109.22 (4.300)	96.52 (3.800)
80	111.76 (4.400)	99.06 (3.900)
82	114.30 (4.500)	101.60 (4.000)
84	116.84 (4.600)	104.14 (4.100)
86	119.38 (4.700)	106.68 (4.200)
88	121.92 (4.800)	109.22 (4.300)
90	124.46 (4.900)	111.76 (4.400)
92	127.00 (5.000)	114.30 (4.500)
94	129.54 (5.100)	116.84 (4.600)
96	132.08 (5.200)	119.38 (4.700)
98	134.62 (5.300)	121.92 (4.800)
100	137.16 (5.400)	124.46 (4.900)
102	139.70 (5.500)	127.00 (5.000)
104	142.24 (5.600)	129.54 (5.100)
106	144.78 (5.700)	132.08 (5.200)
108	147.32 (5.800)	134.62 (5.300)

Circuits	Dimension	
	A	B
110	149.86 (5.900)	137.16 (5.400)
112	152.40 (6.000)	139.70 (5.500)
114	154.94 (6.100)	142.24 (5.600)
116	157.48 (6.200)	144.78 (5.700)
118	160.02 (6.300)	147.32 (5.800)
120	162.56 (6.400)	149.86 (5.900)
122	165.10 (6.500)	152.40 (6.000)
124	167.64 (6.600)	154.94 (6.100)
126	170.18 (6.700)	157.48 (6.200)
128	172.72 (6.800)	160.02 (6.300)
130	175.26 (6.900)	162.56 (6.400)

Plating Options	Order No.
15μ" min. select Gold	• 25-02-6XXX
30μ" min. select Gold	• 25-02-1XXX
150μ" Tin/Lead overall	• 25-02-2XXX
Replace XXX with no. of circuits, 008-130 (even only)	

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 50 circuits
- Low profile
- Polarized slot
- Fully shrouded to protect pins during mating
- In-line or alternate polarization pegs options

Reference Information

Product Specification: PS-70246

Mates With: .050" pitch ribbon cable connectors

Designed In: Inches

Electrical

Current: 2.5A

Dielectric Withstanding Voltage: 600V AC/1 min.

Insulation Resistance: 12,000 MΩ min.

Mechanical

Contact Retention: 0.907kg (2 lb) min.

Pin Push-Out Force: 0.907kg (2 lb) min.

Physical

Housing: 4/6 nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Gold on contacts and Tin/Lead on solder tails

Operating Temperature: -55 to +120°C



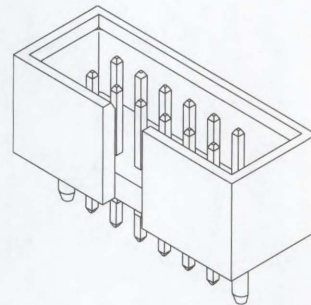
2.54mm (.100") Pitch

C-Grid™

Shrouded Header

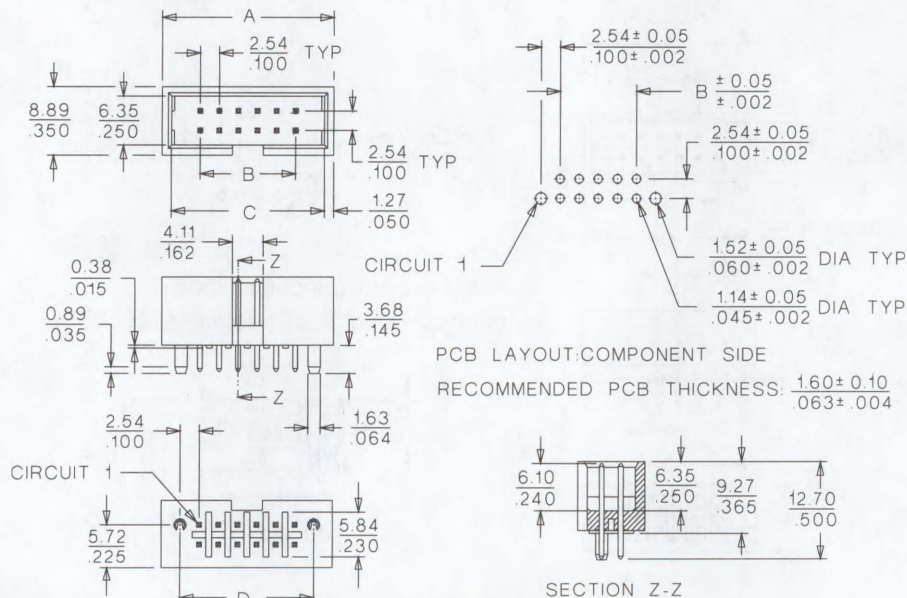
87256

Dual Row, Low Profile
Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension			
		A	B	C	D
4	87256-0411	12.70 (.500)	2.54 (.100)	10.16 (.400)	7.62 (.300)
6	87256-0611	15.24 (.600)	5.08 (.200)	12.70 (.500)	10.16 (.400)
8	87256-0811	17.78 (.700)	7.62 (.300)	15.24 (.600)	12.70 (.500)
10	87256-1011	20.32 (.800)	10.16 (.400)	17.78 (.700)	15.24 (.600)
12	87256-1211	22.86 (.900)	12.70 (.500)	20.32 (.800)	17.78 (.700)
14	87256-1411	25.40 (1.000)	15.24 (.600)	22.86 (.900)	20.32 (.800)
16	87256-1611	27.94 (1.100)	17.78 (.700)	25.40 (1.000)	22.86 (.900)
18	87256-1811	30.48 (1.200)	20.32 (.800)	27.94 (1.100)	25.40 (1.000)
20	87256-2011	33.02 (1.300)	22.86 (.900)	30.48 (1.200)	27.94 (1.100)
24	87256-2411	38.10 (1.500)	27.94 (1.100)	35.56 (1.400)	33.02 (1.300)
26	87256-2611	40.64 (1.600)	30.48 (1.200)	38.10 (1.500)	35.56 (1.400)
30	87256-3011	45.72 (1.800)	35.56 (1.400)	43.18 (1.700)	40.64 (1.600)
34	87256-3411	50.80 (2.000)	40.64 (1.600)	48.26 (1.900)	45.72 (1.800)
40	87256-4011	58.42 (2.300)	48.26 (1.900)	55.88 (2.200)	53.34 (2.100)
44	87256-4411	63.50 (2.500)	53.34 (2.100)	60.96 (2.400)	58.42 (2.300)
50	87256-5011	71.12 (2.800)	60.96 (2.400)	68.58 (2.700)	66.04 (2.600)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 64 circuits
- Polarized slot
- Low profile
- High temperature material version available, contact Molex

Reference Information

UL File No.: E29179 (H)
CSA File No.: LR19980A
Mates With: .050" pitch ribbon cable connectors
Designed In: Inches

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 17.79N (4 lb)
Durability: 50 cycles Gold

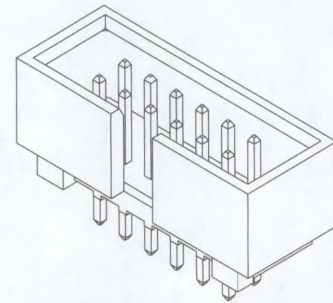
Physical

Housing: Glass-filled polyester, UL 94V-0
Contact: Brass
Plating: See Table
Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Shrouded Header

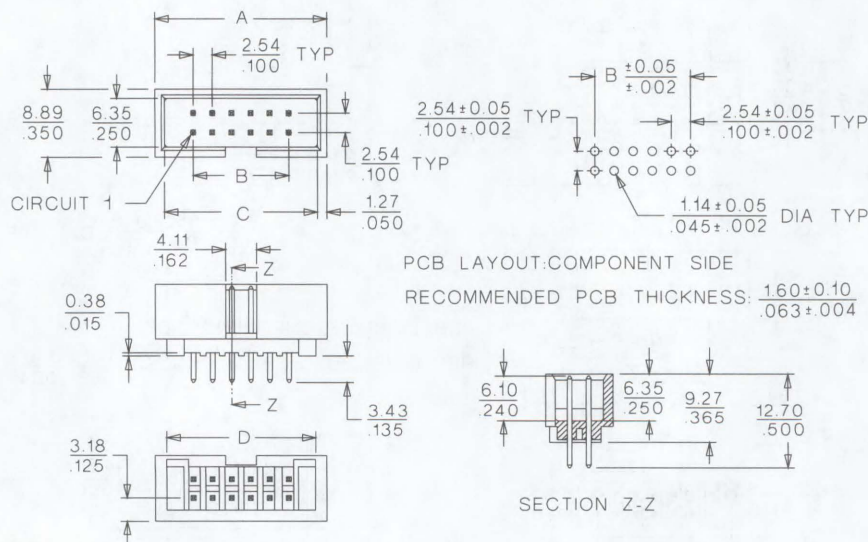
70246

**Dual Row, Low Profile
Vertical**



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



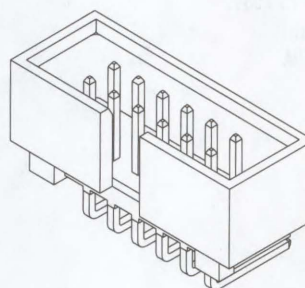
ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	15μ" Gold	30μ" Gold	A	B	C	D
8	70246-0821	70246-0822	17.78 (.700)	7.62 (.300)	15.25 (.600)	14.73 (.580)
10	70246-1021	70246-1022	20.32 (.800)	10.16 (.400)	17.78 (.700)	17.27 (.680)
12	70246-1221	70246-1222	22.86 (.900)	12.70 (.500)	20.32 (.800)	19.81 (.780)
14	70246-1421	70246-1422	25.40 (1.000)	15.24 (.600)	22.86 (.900)	22.35 (.880)
16	70246-1621	70246-1622	27.94 (1.100)	17.78 (.700)	25.40 (1.000)	24.89 (.980)
20	70246-2021	70246-2022	33.02 (1.300)	22.86 (.900)	30.28 (1.200)	29.97 (1.180)
24	70246-2421	70246-2422	38.10 (1.500)	27.94 (1.100)	35.50 (1.400)	35.05 (1.380)
26	70246-2621	70246-2622	40.64 (1.600)	30.48 (1.200)	38.10 (1.500)	37.59 (1.480)
30	70246-3021	70246-3022	45.72 (1.800)	35.56 (1.400)	43.18 (1.700)	42.67 (1.680)
34	70246-3421	70246-3422	50.80 (2.000)	40.64 (1.600)	48.26 (1.900)	47.75 (1.880)
40	70246-4021	70246-4022	58.42 (2.300)	48.26 (1.900)	55.88 (2.200)	55.37 (2.180)
44	70246-4421	70246-4422	63.50 (2.500)	53.34 (2.100)	60.96 (2.400)	60.45 (2.380)
50	70246-5021	70246-5022	71.12 (2.800)	60.96 (2.400)	68.58 (2.700)	68.07 (2.680)
56	70246-5621	70246-5622	78.74 (3.100)	68.58 (2.700)	76.20 (3.000)	75.69 (2.980)
60	70246-6021	70246-6022	83.82 (3.300)	73.66 (2.900)	81.28 (3.200)	80.77 (3.180)
64	70246-6421	70246-6422	88.90 (3.500)	78.74 (3.100)	86.36 (3.400)	85.85 (3.380)

C-Grid®

70247

Dual Row, Low Profile Right Angle



2.54mm (.100") Pitch

- Sizes 8 to 64 circuits
- Polarized slot
- Low profile
- High temperature material version available, contact Molex

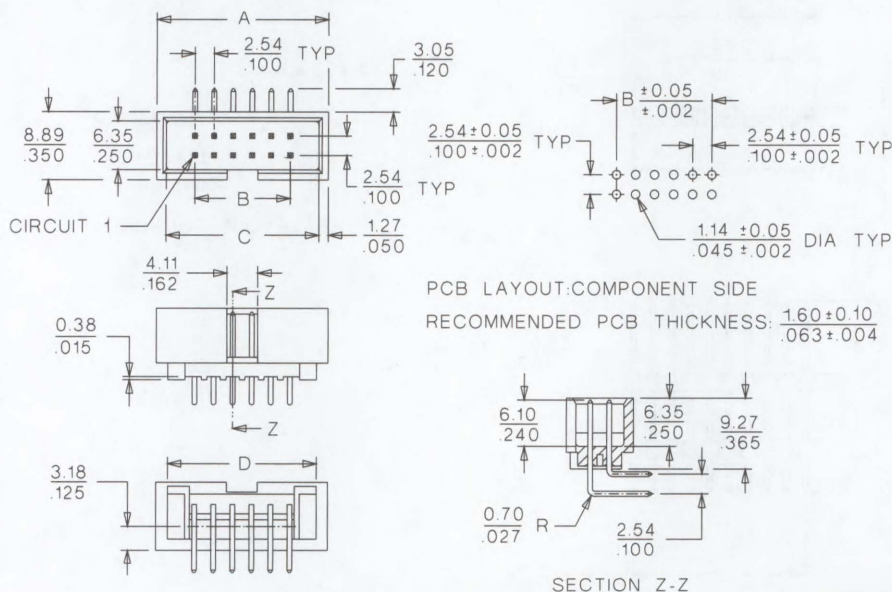
UL File No.: E29179 (H)
CSA File No.: LR19980A
Mates With: .050" pitch ribbon cable connectors
Designed In: Inches

Voltage: 250V
Current: 3.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 600V
Insulation Resistance: 1000 MΩ min.

Contact Retention to Housing: 1.8kg (4 lb)
Durability: 50 cycles Gold

Housing: Glass-filled polyester, UL 94V-0
Contact: Brass
Plating: See Table
Operating Temperature: -40 to +105°C

Not For Use With C-Grid III™ Components



Circuits	Order No.		Dimension			
	15μ" Gold	30μ" Gold	A	B	C	D
8	70247-0801	70247-0802	17.78 (.700)	7.62 (.300)	15.25 (.600)	14.73 (.580)
10	70247-1001	70247-1002	20.32 (.800)	10.16 (.400)	17.78 (.700)	17.27 (.680)
12	70247-1201	70247-1202	22.86 (.900)	12.70 (.500)	20.32 (.800)	19.81 (.780)
14	70247-1401	70247-1402	25.40 (1.000)	15.24 (.600)	22.86 (.900)	22.35 (.880)
16	70247-1601	70247-1602	27.94 (1.100)	17.78 (.700)	25.40 (1.000)	24.89 (.980)
20	70247-2001	70247-2002	33.02 (1.300)	22.86 (.900)	30.28 (1.200)	29.97 (1.180)
24	70247-2401	70247-2402	38.10 (1.500)	27.94 (1.100)	35.56 (1.400)	35.05 (13.80)
26	70247-2601	70247-2602	40.64 (1.600)	30.48 (1.200)	38.10 (1.500)	37.59 (1.480)
30	70247-3001	70247-3002	45.72 (1.800)	35.56 (1.400)	43.18 (1.700)	42.67 (1.680)
34	70247-3401	70247-3402	50.80 (2.000)	40.64 (1.600)	48.26 (1.900)	47.75 (1.880)
40	70247-4001	70247-4002	58.42 (2.300)	48.26 (1.900)	55.88 (2.200)	55.37 (2.180)
44	70247-4401	70247-4402	63.50 (2.500)	53.34 (2.100)	60.96 (2.400)	60.45 (2.380)
48	70247-4801	70247-4802	68.58 (2.700)	58.42 (2.300)	66.04 (2.600)	65.53 (2.500)
50	70247-5001	70247-5002	71.12 (2.800)	60.96 (2.400)	68.58 (2.700)	68.07 (2.680)
56	70247-5601	70247-5602	78.74 (3.100)	68.58 (2.700)	76.20 (3.000)	75.69 (2.980)
60	70247-6001	70247-6002	83.82 (3.300)	73.66 (2.900)	81.28 (3.200)	80.77 (3.180)
64	70247-6401	70247-6402	88.90 (3.500)	78.74 (3.100)	86.36 (3.400)	85.85 (3.380)
72	70247-7201	70247-7202	99.06 (3.900)	88.90 (3.500)	96.52 (3.800)	96.01 (3.780)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 40 circuits
- Maintains the dimension between 2 boards
- Stackable side-by-side and end-to-end (on unbroken edges)
- Easy breakaway to smaller sizes
- Standoffs minimize flux retention
- Drawn .025" square wire provides 4-sided smooth surface for quality interface

Reference Information

Product Specification: PS-70342
UL File No.: E29179 (H)
CSA File No.: LR19980A
Designed In: Inches

Electrical

Voltage: 250V
Current: 3.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 600V
Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Housing: 17.79N (4 lb)
Durability: Gold—50 cycles; Tin/Lead—25 cycles

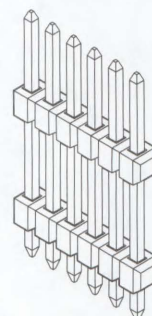
Physical

Housing: Glass-filled nylon, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C



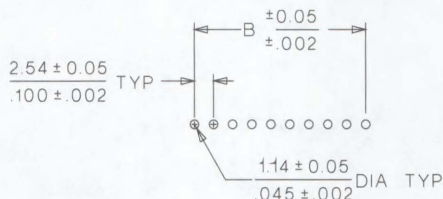
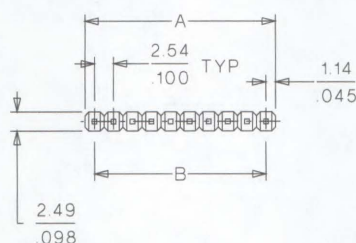
2.54mm (.100") Pitch C-Grid® Dual Body Breakaway Header

70345 Single Row Vertical

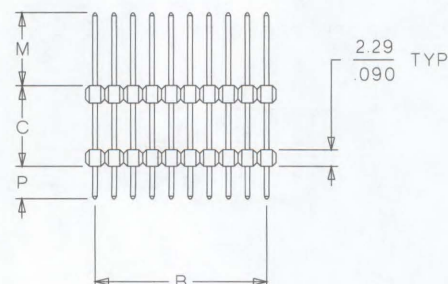


CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



PCB LAYOUT: COMPONENT SIDE



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	4.83 (.190)	2.54 (.100)
3	7.37 (.290)	5.08 (.200)
4	9.91 (.390)	7.62 (.300)
5	12.45 (.490)	10.16 (.400)
6	14.99 (.590)	12.70 (.500)
7	17.53 (.690)	15.24 (.600)
8	20.07 (.790)	17.78 (.700)
9	22.61 (.890)	20.32 (.800)
10	25.15 (.990)	22.86 (.900)
11	27.69 (1.090)	25.40 (1.000)

Circuits	Dimension	
	A	B
12	30.23 (1.190)	27.94 (1.100)
13	32.77 (1.290)	30.48 (1.200)
14	35.31 (1.390)	33.02 (1.300)
15	37.85 (1.490)	35.56 (1.400)
16	40.39 (1.590)	38.10 (1.500)
17	42.93 (1.690)	40.64 (1.600)
18	45.47 (1.790)	43.18 (1.700)
19	48.01 (1.890)	45.72 (1.800)
20	50.55 (1.990)	48.26 (1.900)
21	53.09 (2.090)	50.80 (2.000)

Circuits	Dimension	
	A	B
22	55.63 (2.190)	53.34 (2.100)
23	58.17 (2.290)	55.88 (2.200)
24	60.71 (2.390)	58.42 (2.300)
25	63.25 (2.490)	60.96 (2.400)
26	65.79 (2.590)	63.50 (2.500)
27	68.33 (2.690)	66.04 (2.600)
28	70.87 (2.790)	68.58 (2.700)
29	73.41 (2.890)	71.12 (2.800)
30	75.95 (2.990)	73.66 (2.900)
31	78.49 (3.090)	76.20 (3.000)

Circuits	Dimension	
	A	B
32	81.03 (3.190)	78.74 (3.100)
33	83.57 (3.290)	81.28 (3.200)
34	86.11 (3.390)	83.82 (3.300)
35	88.65 (3.490)	86.36 (3.400)
36	91.19 (3.590)	88.90 (3.500)
37	93.73 (3.690)	91.44 (3.600)
38	96.27 (3.790)	93.98 (3.700)
39	98.81 (3.890)	96.52 (3.800)
40	101.35 (3.990)	99.06 (3.900)

Order No.

Contact factory to order. Specify dimensions M, C, P and plating—available in 15μ" and 30μ" min. Gold, and 150μ" min. Tin/Lead.

Note: Dimension M = Mating End; Dimension C = Stacking Height; and Dimension P = PC Tail
Also available in dual row version, see 70268

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Maintains the dimensions between 2 boards
- Provides electrical connection between 2 discrete boards and eliminates the need for nylon or aluminum spacers
- Stackable side-to-side and end-to-end (on unbroken edges)
- Drawn .025" square wire provides 4-sided smooth surface for quality interface
- SMT Version 70709

Reference Information

Product Specification: PS-70268

Mates With: 7859 shunts and C-Grid Receptacles

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.0A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Pin Retention to Housing: 17.79Nkg (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch

C-Grid®

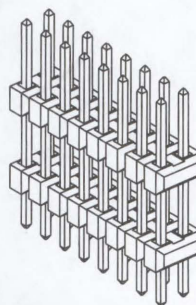
Dual Body

Breakaway Header

70268

Dual Row

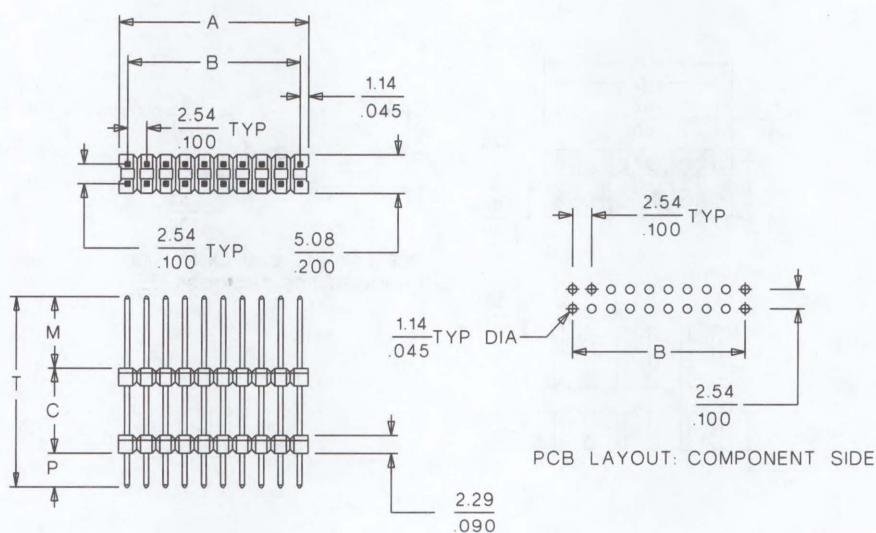
Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	4.83 (.190)	2.54 (.100)
6	7.37 (.290)	5.08 (.200)
8	9.91 (.390)	7.62 (.300)
10	12.45 (.490)	10.16 (.400)
12	14.99 (.590)	12.70 (.500)
14	17.53 (.690)	15.24 (.600)
16	20.07 (.790)	17.78 (.700)
18	22.61 (.890)	20.32 (.800)
20	25.15 (.990)	22.86 (.900)
22	27.69 (1.090)	25.40 (1.000)

Circuits	Dimension	
	A	B
24	30.23 (1.190)	27.94 (1.100)
26	32.77 (1.290)	30.48 (1.200)
28	35.31 (1.390)	33.02 (1.300)
30	37.85 (1.490)	35.56 (1.400)
32	40.39 (1.590)	38.10 (1.500)
34	42.93 (1.690)	40.64 (1.600)
36	45.47 (1.790)	43.18 (1.700)
38	48.01 (1.890)	45.72 (1.800)
40	50.55 (1.990)	48.26 (1.900)
42	53.09 (2.090)	50.80 (2.000)

Circuits	Dimension	
	A	B
44	55.63 (2.190)	53.34 (2.100)
46	58.17 (2.290)	55.88 (2.200)
48	60.71 (2.390)	58.42 (2.300)
50	63.25 (2.490)	60.96 (2.400)
52	65.79 (2.590)	63.50 (2.500)
54	68.33 (2.690)	66.04 (2.600)
56	70.87 (2.790)	68.58 (2.700)
58	73.41 (2.890)	71.12 (2.800)
60	75.95 (2.990)	73.66 (2.900)
62	78.49 (3.090)	76.20 (3.000)

Circuits	Dimension	
	A	B
64	81.03 (3.190)	78.74 (3.100)
66	83.57 (3.290)	81.28 (3.200)
68	86.11 (3.390)	83.82 (3.300)
70	88.65 (3.490)	86.36 (3.400)
72	91.19 (3.590)	88.90 (3.500)
74	93.73 (3.690)	91.44 (3.600)
76	96.27 (3.790)	93.98 (3.700)
78	98.81 (3.890)	96.52 (3.800)
80	101.35 (3.990)	99.06 (3.900)

Order No.

Contact Molex to order. Specify dimensions M, C, P, T and plating(*)

*Plating available in 15μ" and 30μ" min. Gold, and 150μ" min. Tin/Lead.

Note: Dimension M = Mating End; Dimension C = Stacking Height; Dimension P = PC Tail; and Dimension T = Total Pin Length

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 34 circuits
- Mated height: 6.50mm (.256")
- Easy breakaway to smaller sizes
- Round wire pins

Reference Information

Packaging: Bag
UL File No.: E29179
Mates With: 90059
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

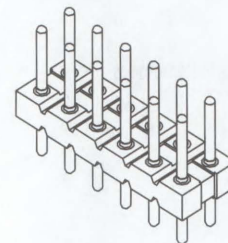
Housing: Glass-filled PBT, UL 94V-0
Contact: Brass
Plating: Tin over Copper
Operating Temperature: -40 to +105°C



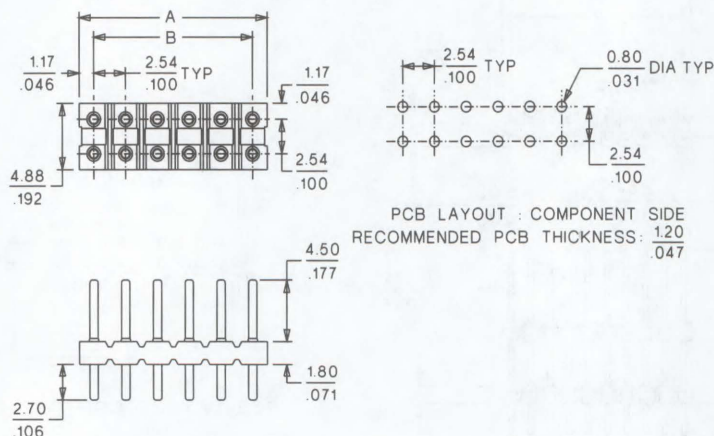
2.54mm (.100") Pitch Micro Shunt Header

5547-NA

Dual Row Low Profile



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	39-27-4022	2.54 (.100)	—
4	39-27-4042	4.88 (.192)	2.54 (.100)
6	39-27-4062	7.42 (.292)	5.08 (.200)
8	39-27-4082	9.96 (.392)	7.62 (.300)
10	39-27-4102	12.50 (.492)	10.16 (.400)
12	39-27-4122	15.04 (.592)	12.70 (.500)
14	39-27-4142	17.58 (.692)	15.24 (.600)
16	39-27-4162	20.12 (.792)	17.78 (.700)
18	39-27-4182	22.66 (.892)	20.32 (.800)
20	39-27-4202	25.20 (.992)	22.86 (.900)
22	39-27-4222	27.74 (1.092)	25.40 (1.000)
24	39-27-4242	30.28 (1.192)	27.94 (1.100)
26	39-27-4262	32.82 (1.292)	30.48 (1.200)
28	39-27-4282	35.36 (1.392)	33.02 (1.300)
30	39-27-4302	37.90 (1.492)	35.56 (1.400)
34	39-27-4342	42.98 (1.692)	40.64 (1.600)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 36 circuits
- Mated height: 6.50mm (.256")
- Easy breakaway to smaller sizes
- Round wire pins

Reference Information

Packaging: Bag
UL File No.: E29179
Mates With: 90059
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 1.5A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1000V AC/1 min.
Insulation Resistance: 1000 MΩ min.

Physical

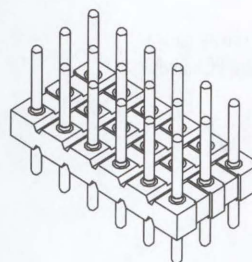
Housing: Glass-filled PBT, UL 94V-0
Contact: Brass
Plating: Tin over Copper
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch
Micro Shunt
Header

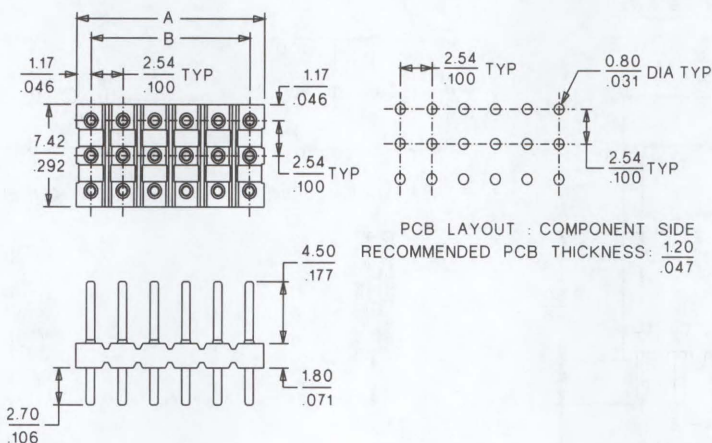
5548-NA

Triple Row
Low Profile



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
3	39-27-4034	2.34 (.092)	—
9	39-27-4094	7.42 (.292)	5.08 (.200)
12	39-27-4124	9.96 (.392)	7.62 (.300)
15	39-27-4154	12.50 (.492)	10.16 (.400)
18	39-27-4184	15.04 (.592)	12.70 (.500)
21	39-27-4214	17.58 (.692)	15.24 (.600)
24	39-27-4244	20.12 (.792)	17.78 (.700)
27	39-27-4274	22.66 (.892)	20.32 (.800)
30	39-27-4304	25.20 (.992)	22.86 (.900)
36	39-27-4364	30.28 (1.192)	27.94 (1.100)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- Stackable in 2 directions
- Meets HE 13/14 specification
- Suitable for single row headers

Reference Information

Product Specification: PS-99020-0001
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 0.64mm (.025") square pins
 Use With: 1.57mm (.062") thick PC boards
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Mating Force: 1N Gold max. and 3N Tin max.
 Unmating Force: 0.2N Gold min. and 0.2N Tin min.
 Normal Force: 1N

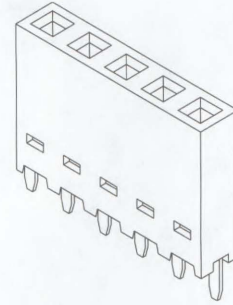
Physical

Housing: Black glass-filled polyester, UL 94V-0
 Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -55 to +125°C
 Recommended Mating Pin Length: 5.65mm (.222") min. to 7.00mm (.275") max.

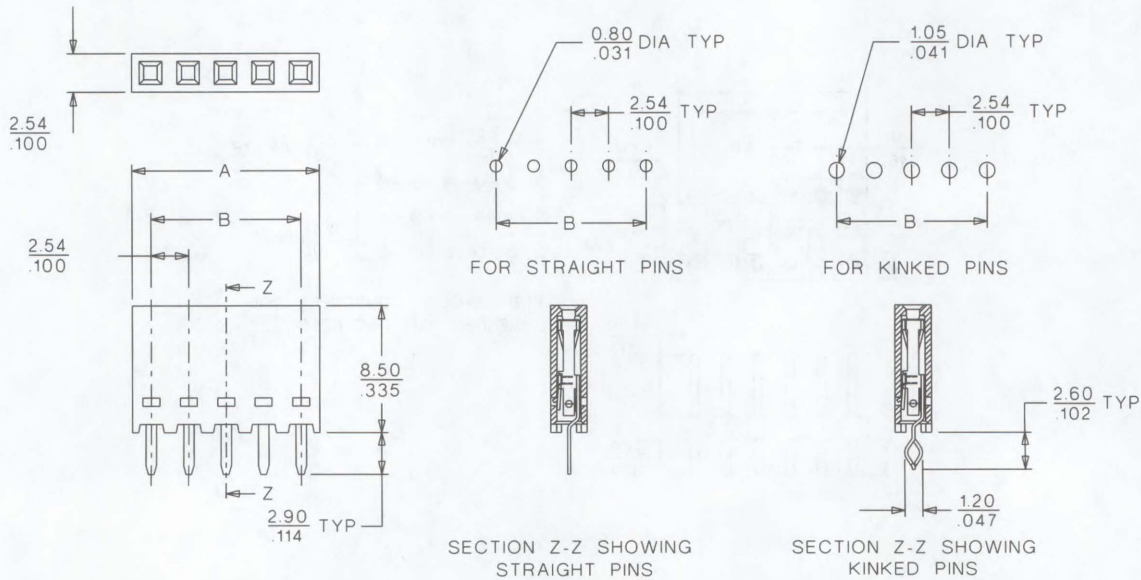
molex® 2.54mm (.100") Pitch C-Grid® PC Board Connectors

90147

Single Row Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.						Dimension	
	Straight Tail			Kinked Tail			A	B
	Plating A	Plating E	Plating F	Plating A	Plating E	Plating F		
2	90147-1102	90147-1202	90147-1302	90147-2103	90147-2203	90147-2303	5.08 (.200)	2.54 (.100)
3	90147-1103	90147-1203	90147-1303	90147-2104	90147-2204	90147-2304	7.62 (.300)	5.08 (.200)
4	90147-1104	90147-1204	90147-1304	90147-2105	90147-2205	90147-2305	10.16 (.400)	7.62 (.300)
5	90147-1105	90147-1205	90147-1305	90147-2106	90147-2206	90147-2306	12.70 (.500)	10.16 (.400)
6	90147-1106	90147-1206	90147-1306	90147-2107	90147-2207	90147-2307	15.24 (.600)	12.70 (.500)
7	90147-1107	90147-1207	90147-1307	90147-2108	90147-2208	90147-2308	17.78 (.700)	15.24 (.600)
8	90147-1108	90147-1208	90147-1308	90147-2109	90147-2209	90147-2309	20.32 (.800)	17.78 (.700)
9	90147-1109	90147-1209	90147-1309	90147-2110	90147-2210	90147-2310	22.86 (.900)	20.32 (.800)
10	90147-1110	90147-1210	90147-1310	90147-2111	90147-2211	90147-2311	25.40 (1.000)	22.86 (.900)
11	90147-1111	90147-1211	90147-1311	90147-2112	90147-2212	90147-2312	27.94 (1.100)	25.40 (1.000)
12	90147-1112	90147-1212	90147-1312	90147-2113	90147-2213	90147-2313	30.48 (1.200)	27.94 (1.100)
14	90147-1114	90147-1214	90147-1314	90147-2114	90147-2214	90147-2314	35.56 (1.400)	33.02 (1.300)
18	90147-1118	90147-1218	90147-1318	90147-2118	90147-2218	90147-2318	45.72 (1.800)	43.18 (1.700)
25	90147-1125	90147-1225	90147-1325	90147-2125	90147-2225	90147-2325	63.50 (2.500)	60.96 (2.400)
30	90147-1130	90147-1230	90147-1330	90147-2130	90147-2230	90147-2330	76.20 (3.000)	73.66 (2.900)
32	90147-1132	90147-1232	90147-1332	90147-2132	90147-2232	90147-2332	81.28 (3.200)	78.74 (3.100)

For other available circuit sizes contact Molex
 Plating A: 1.00μm (39μ") min. Hot Tin dip

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel
 Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- Stackable end-to-end
- Meets HE 13/14 specification
- Suitable for single row headers

Reference Information

Product Specification: PS-99020-0001
 Packaging: Tube
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 0.64 (.025") square pins
 Use With: 1.57mm (.062") thick PC boards
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Mating Force: 1N Gold max. and 3N Tin max.
 Unmating Force: 0.2N Gold min. and 0.2N Tin min.
 Normal Force: 1N

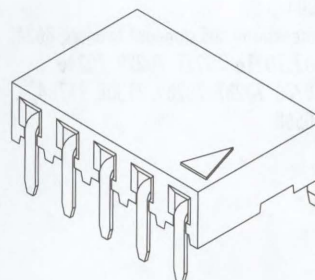
Physical

Housing: Black glass-filled polyester, UL 94V-0
 Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -55 to +125°C
 Recommended Mating Pin Length: 5.65mm (.222") min. to 7.00mm (.275") max.

molex® 2.54mm (.100") Pitch C-Grid® PC Board Connectors

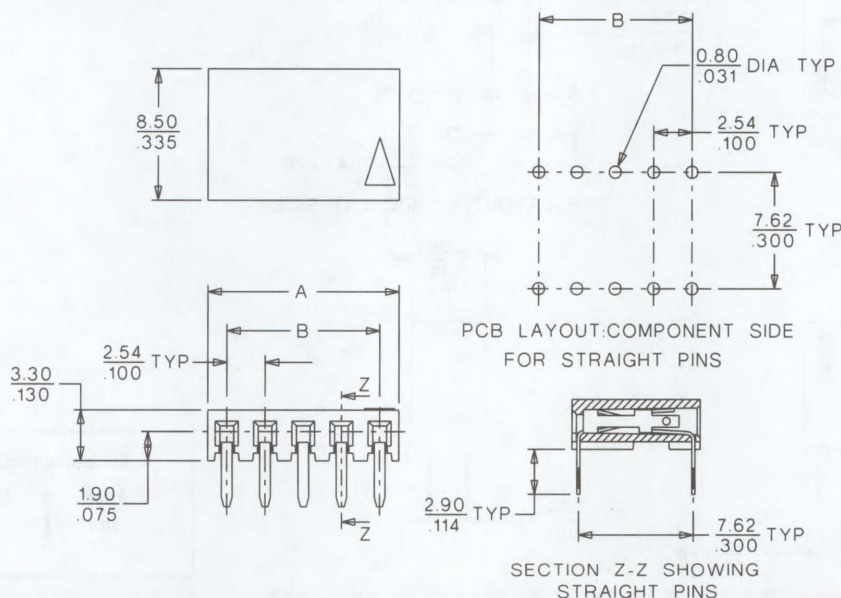
90148

**Single Row
Horizontal**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Straight Tail			A	B
	Plating A	Plating E	Plating F		
2	90148-1102	90148-1202	90148-1302	5.08 (.200)	2.54 (.100)
4	90148-1104	90148-1204	90148-1304	10.16 (.400)	7.62 (.300)
6	90148-1106	90148-1206	90148-1306	15.24 (.600)	12.70 (.500)
8	90148-1108	90148-1208	90148-1308	20.32 (.800)	17.78 (.700)
10	90148-1110	90148-1210	90148-1310	25.40 (1.000)	22.86 (.900)
12	90148-1112	90148-1212	90148-1312	30.48 (1.200)	27.94 (1.100)
14	90148-1114	90148-1214	90148-1314	35.56 (1.400)	33.02 (1.300)
18	90148-1118	90148-1218	90148-1318	45.72 (1.800)	43.18 (1.700)
30	90148-1130	90148-1230	90148-1330	76.20 (3.000)	73.66 (2.900)
32	90148-1132	90148-1232	90148-1332	81.28 (3.200)	78.74 (3.100)

For other available circuit sizes contact Molex

Plating A: 1.00μm (39μ") min. Hot Tin dip

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- High profile: .340" high
- Designed for parallel and perpendicular stacking
- Stackable end-to-end and side-to-side on .100" grid
- Dual beam box contact
- Standoffs facilitate post solder clearing

Reference Information

Product Specification: PS-70181

UL File No.: E29179 (G)

CSA File No.: LR19980A

Mates With: C-Grid breakaway and shrouded headers, 8624,

8723, 8724, 70203, 70216, 70227, 70229, 70246,

70247, 70260, 70280, 70287, 70289, 71308, 71764,

70524, 70567, 70568

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 100,000 MΩ min.

Mechanical

Contact Insertion Force: 2.22N (0.5 lb)

Contact Retention to Housing: 17.79N (4 lb)

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

PCB Thickness: .120" tail for .062" thick PCB; .050" tail ideal for thinner substrates: membrane switch and flex circuitry



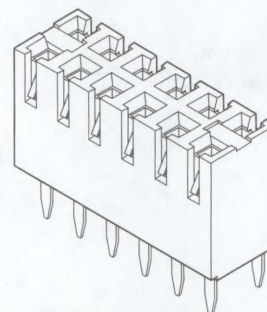
2.54mm (.100") Pitch

C-Grid®

PCB Connector

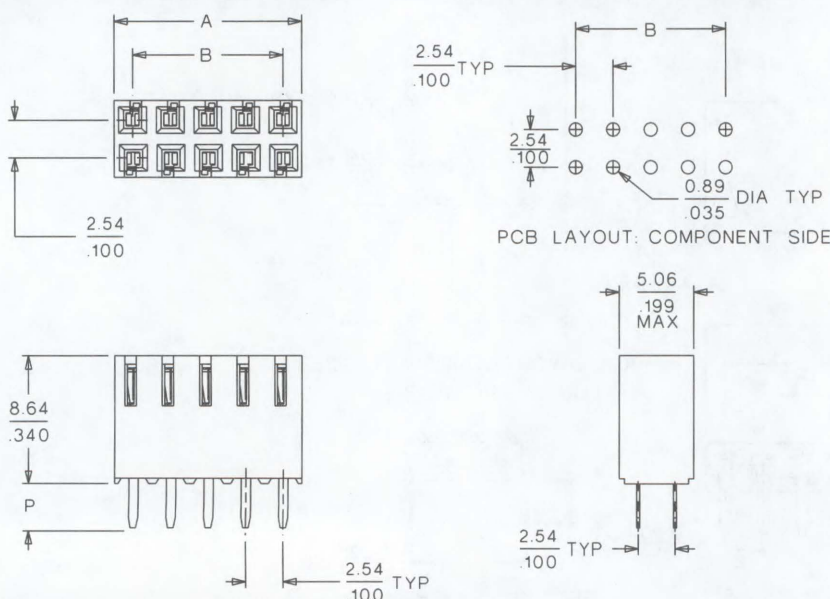
70192/70854 .100 x .100" Grid

High Profile, Dual Row
Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

	70192	70854
PC Tail Grid	2.54 x 2.54mm (.100 x .100")	2.54 x 2.54mm (.100 x .100")
PC Tail Length Dimension P	3.05mm (.120")	1.27mm (.050")
Plating Option	Order No.	Order No.
15μ" min. select Gold	• 15-44-32XX	15-47-66XX
30μ" min. select Gold	• 15-44-45XX	15-47-70XX
150μ" Tin/Lead	• 15-45-13XX	15-45-43XX
	Replace XX with no. of circuits per row (02-40), example: 20 circuit = 15-44-3310	Replace XX with total no. of circuits (04-80), example: 20 circuit = 15-47-6520

Circuits	Dimension	
	A	B
4	5.05 (1.99)	2.54 (.100)
6	7.59 (2.99)	5.08 (.200)
8	10.13 (3.99)	7.62 (.300)
10	12.67 (4.99)	10.16 (.400)
12	15.21 (5.99)	12.70 (.500)
14	17.75 (6.99)	15.24 (.600)
16	20.29 (7.99)	17.78 (.700)
18	22.83 (8.99)	20.32 (.800)
20	25.37 (9.99)	22.86 (.900)
22	27.91 (10.99)	25.40 (1.000)

Circuits	Dimension	
	A	B
24	30.45 (1.199)	27.94 (1.100)
26	32.99 (1.299)	30.48 (1.200)
28	35.53 (1.399)	33.02 (1.300)
30	38.07 (1.499)	35.56 (1.400)
32	40.61 (1.599)	38.10 (1.500)
34	43.15 (1.699)	40.64 (1.600)
36	45.69 (1.799)	43.18 (1.700)
38	48.23 (1.899)	45.72 (1.800)
40	50.77 (1.999)	48.26 (1.900)
42	53.31 (2.099)	50.80 (2.000)

Circuits	Dimension	
	A	B
44	55.85 (2.199)	53.34 (2.100)
46	58.39 (2.299)	55.88 (2.200)
48	60.93 (2.399)	58.42 (2.300)
50	63.47 (2.499)	60.96 (2.400)
52	66.01 (2.599)	63.50 (2.500)
54	68.55 (2.699)	66.04 (2.600)
56	71.09 (2.799)	68.58 (2.700)
58	73.63 (2.899)	71.12 (2.800)
60	76.17 (2.999)	73.66 (2.900)
62	78.71 (3.099)	76.20 (3.000)

Circuits	Dimension	
	A	B
64	81.25 (3.199)	78.74 (3.100)
66	83.79 (3.299)	81.28 (3.200)
68	86.33 (3.399)	83.82 (3.300)
70	88.87 (3.499)	86.36 (3.400)
72	91.41 (3.599)	88.90 (3.500)
74	93.95 (3.699)	91.44 (3.600)
76	96.49 (3.799)	93.98 (3.700)
78	99.03 (3.899)	96.52 (3.800)
80	101.57 (3.999)	99.06 (3.900)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Available with or without retention pegs
- High profile: .340" high
- Designed for parallel and perpendicular board stacking
- Stackable end-to-end on .100" grid
- Dual beam box contact

Reference Information

Product Specification: PS-71840

Packaging: Tray

Mates With: C-Grid breakaway and shrouded headers, 8624,

8723, 8724, 70203, 70216, 70227, 70229, 70246,

70247, 70260, 70280, 70287, 70289, 71308, 71764,

70524, 70567, 70568

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 182g (0.4 lb)

Insertion Force to PCB: 3.6kg (8 lb) per peg

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

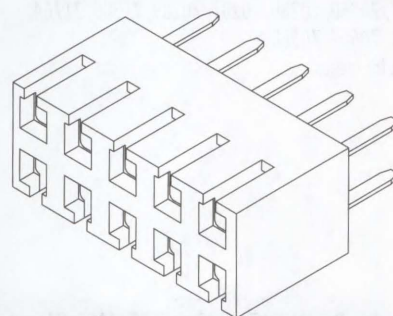
Plating: See Table

Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® Receptacle

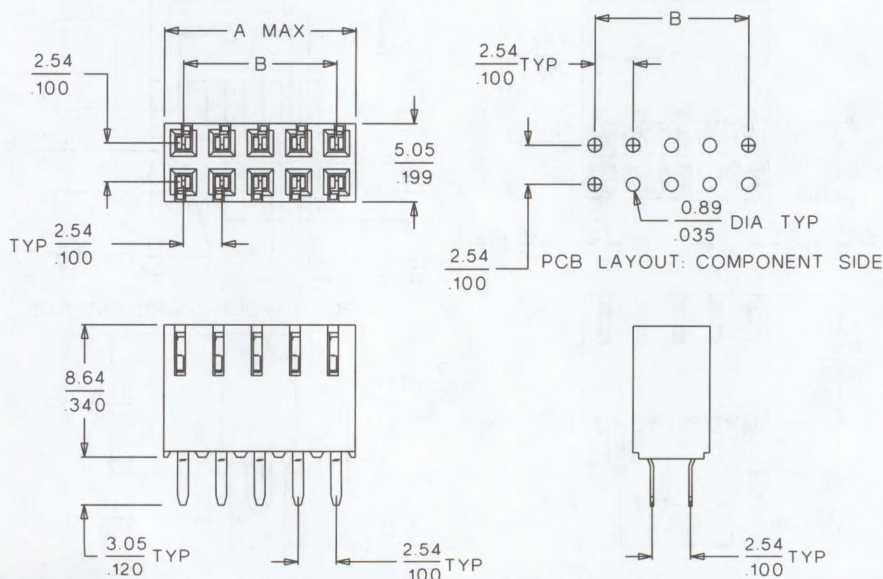
71850

High Profile, Dual Row High-Temperature, Vertical Through Hole



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
4	5.05 (.199)	2.54 (.100)
6	7.59 (.299)	5.08 (.200)
8	10.13 (.399)	7.62 (.300)
10	12.67 (.499)	10.16 (.400)
12	15.21 (.599)	12.70 (.500)
14	17.75 (.699)	15.24 (.600)
16	20.29 (.799)	17.78 (.700)
18	22.83 (.899)	20.32 (.800)
20	25.37 (.999)	22.86 (.900)
22	27.91 (1.099)	25.40 (1.000)
24	30.45 (1.199)	27.94 (1.100)
26	32.99 (1.299)	30.48 (1.200)
28	35.53 (1.399)	33.02 (1.300)

Circuits	Dimension	
	A	B
30	38.07 (1.499)	35.56 (1.400)
32	40.61 (1.599)	38.10 (1.500)
34	43.15 (1.699)	40.64 (1.600)
36	45.69 (1.799)	43.18 (1.700)
38	48.23 (1.899)	45.72 (1.800)
40	50.77 (1.999)	48.26 (1.900)
42	53.31 (2.099)	50.80 (2.000)
44	55.85 (2.199)	53.34 (2.100)
46	58.39 (2.299)	55.88 (2.200)
48	60.93 (2.399)	58.42 (2.300)
50	63.47 (2.499)	60.96 (2.400)
52	66.01 (2.599)	63.50 (2.500)
54	68.55 (2.699)	66.04 (2.600)

Circuits	Dimension	
	A	B
56	71.09 (2.799)	68.58 (2.700)
58	73.63 (2.899)	71.12 (2.800)
60	76.17 (2.999)	73.66 (2.900)
62	78.71 (3.099)	76.20 (3.000)
64	81.25 (3.199)	78.74 (3.100)
66	83.79 (3.299)	81.28 (3.200)
68	86.33 (3.399)	83.82 (3.300)
70	88.87 (3.499)	86.36 (3.400)
72	91.41 (3.599)	88.90 (3.500)
74	93.95 (3.699)	91.44 (3.600)
76	96.49 (3.799)	93.98 (3.700)
78	99.03 (3.899)	96.52 (3.800)
80	101.57 (3.999)	99.06 (3.900)

Plating Option	Order No.
15μ" min. select Gold	15-44-58XX
30μ" min. select Gold	15-44-51XX
150μ" Tin/Lead	15-44-68XX
Replace XX with no. of circuits, 04-80 (even only)	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Available with or without retention pegs
- Gull wing surface mount tails
- High profile: .340" high
- Designed for parallel and perpendicular board stacking
- Stackable end-to-end on .100" grid

Reference Information

Product Specification: PS-71395

Packaging: Tray

Mates With: C-Grid breakaway and shrouded headers, 8624, 8723, 8724, 70203, 70216, 70227, 70229, 70246, 70247, 70260, 70280, 70287, 70289, 71308, 71764, 70524, 70567, 70568

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min.

Mechanical

Insertion Force to PCB: 3.6kg (8 lb) per peg

Durability: 25 cycles Tin/Lead and 50 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

Operating Temperature: -40 to +105°C

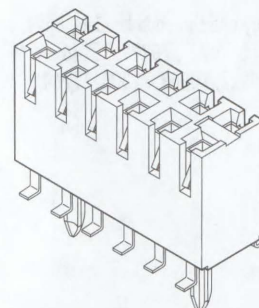
Screened Paste Thickness: .010 to .015"



2.54mm (.100") Pitch C-Grid® PCB Connector

71395

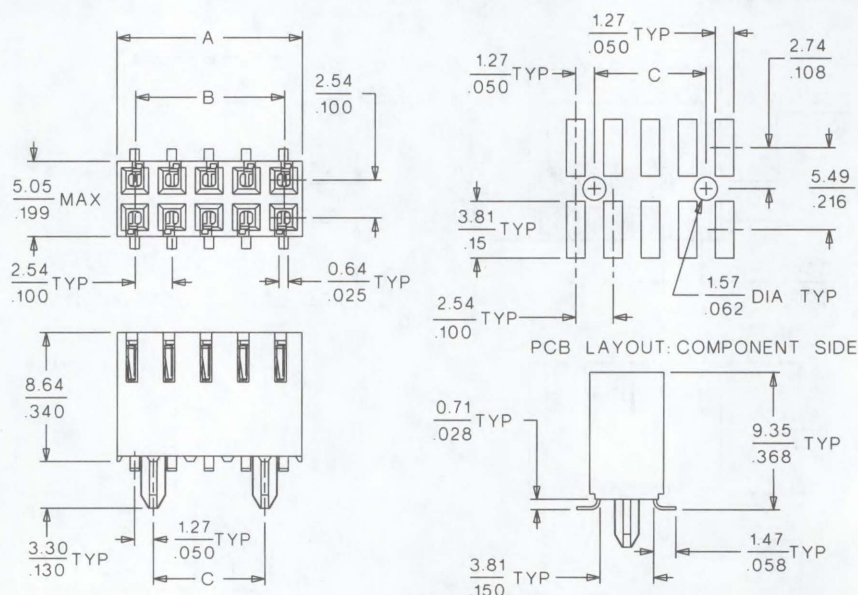
**High Profile, Dual Row
Vertical, SMT**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Plating Option	Order No.	
	With PCB Retention Pegs	Without Pegs
15μ" min. Gold	15-45-35XX	15-45-31XX
30μ" min. Gold	15-45-36XX	15-45-33XX
150μ" min. Tin/Lead	15-45-34XX	15-45-32XX

Replace XX with no. of circuits, 08-80 (even only)

Circuits	Dimension		
	A	B	C
8	10.13 (.399)	7.62 (.300)	5.08 (.200)
10	12.67 (.499)	10.16 (.400)	7.62 (.300)
12	15.21 (.599)	12.70 (.500)	10.16 (.400)
14	17.75 (.699)	15.24 (.600)	12.70 (.500)
16	20.29 (.799)	17.78 (.700)	15.24 (.600)
18	22.83 (.899)	20.32 (.800)	17.78 (.700)
20	25.37 (.999)	22.86 (.900)	20.32 (.800)
22	27.91 (1.099)	25.40 (1.000)	22.86 (.900)
24	30.45 (1.199)	27.94 (1.100)	25.40 (1.000)
26	32.99 (1.299)	30.48 (1.200)	27.94 (1.100)
28	35.53 (1.399)	33.02 (1.300)	30.48 (1.200)
30	38.07 (1.499)	35.56 (1.400)	33.02 (1.300)
32	40.61 (1.599)	38.10 (1.500)	35.56 (1.400)

Circuits	Dimension		
	A	B	C
34	43.15 (1.699)	40.64 (1.600)	38.10 (1.500)
36	45.69 (1.799)	43.18 (1.700)	40.64 (1.600)
38	48.23 (1.899)	45.72 (1.800)	43.18 (1.700)
40	50.77 (1.999)	48.26 (1.900)	45.72 (1.800)
42	53.31 (2.099)	50.80 (2.000)	48.26 (1.900)
44	55.85 (2.199)	53.34 (2.100)	50.80 (2.000)
46	58.39 (2.299)	55.88 (2.200)	53.34 (2.100)
48	60.93 (2.399)	58.42 (2.300)	55.88 (2.200)
50	63.47 (2.499)	60.96 (2.400)	58.42 (2.300)
52	66.01 (2.599)	63.50 (2.500)	60.96 (2.400)
54	68.55 (2.699)	66.04 (2.600)	63.50 (2.500)
56	71.09 (2.799)	68.58 (2.700)	66.04 (2.600)

Circuits	Dimension		
	A	B	C
58	73.63 (2.899)	71.12 (2.800)	68.58 (2.700)
60	76.17 (2.999)	73.66 (2.900)	71.12 (2.800)
62	78.71 (3.099)	76.20 (3.000)	73.66 (2.900)
64	81.25 (3.199)	78.74 (3.100)	76.20 (3.000)
66	83.79 (3.299)	81.28 (3.200)	78.74 (3.100)
68	86.33 (3.399)	83.82 (3.300)	81.28 (3.200)
70	88.87 (3.499)	86.36 (3.400)	83.82 (3.300)
72	91.41 (3.599)	88.90 (3.500)	86.36 (3.400)
74	93.95 (3.699)	91.44 (3.600)	88.90 (3.500)
76	96.49 (3.799)	93.98 (3.700)	91.44 (3.600)
78	99.03 (3.899)	96.52 (3.800)	93.98 (3.700)
80	101.57 (3.999)	99.06 (3.900)	96.52 (3.800)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 80 circuits
- Designed for perpendicular board stacking
- Dual beam box contact
- Staggered mating depth to lower initial insertion force
- Positive pin stop to prevent shorting between rows
- Available without pegs

Reference Information

Product Specification: PS-71979

Packaging: Tube

Mates With: C-Grid Breakaway Headers

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 15mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 1000 MΩ min

Mechanical

Mating Force: 1.33N (0.3 lb)

Durability: 25 cycles Tin/Lead

Physical

Housing: High-temperature thermoplastic, UL 94V-0

Contact: Phosphor Bronze

Plating: See Table

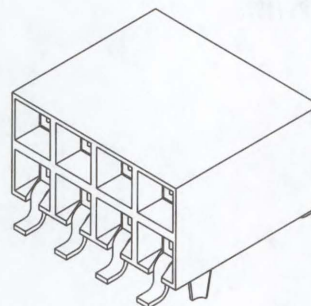
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® Receptacle

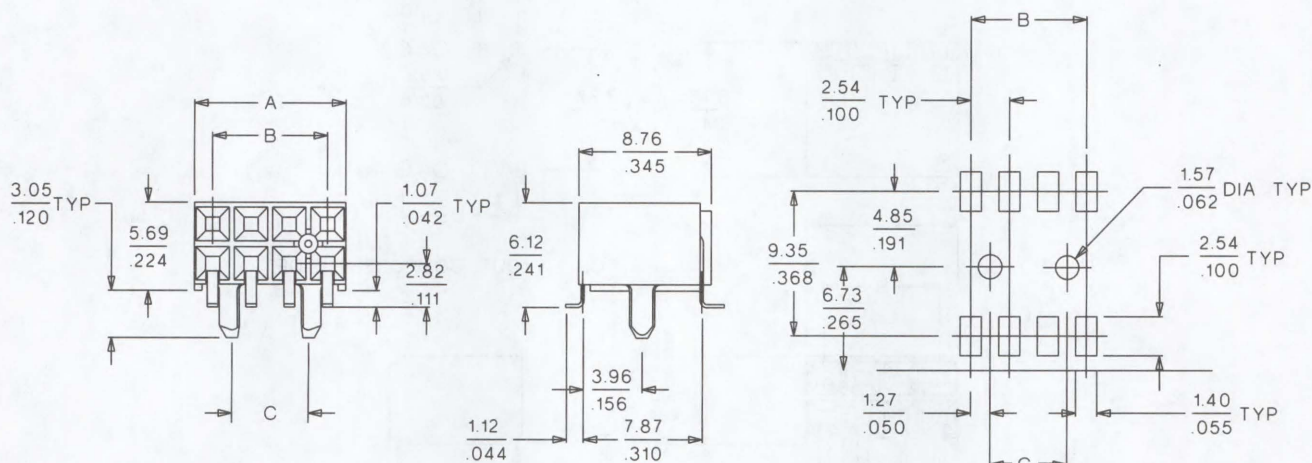
71979

Dual Row, Right Angle SMT



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

ORDERING INFORMATION

Circuits	Order No.			Dimension		
	15μ " Gold	30μ " Gold	50μ " Gold	A	B	C
8	71979-0204	71979-0304	71979-0404	10.03 (.395)	7.67 (.300)	5.08 (.200)
10	71979-0205	71979-0305	71979-0405	12.57 (.495)	10.16 (.400)	7.62 (.300)
12	71979-0206	71979-0306	71979-0406	15.11 (.595)	12.70 (.500)	10.16 (.400)
14	71979-0207	71979-0307	71979-0407	17.65 (.695)	15.24 (.600)	12.70 (.500)
16	71979-0208	71979-0308	71979-0408	20.19 (.795)	17.78 (.700)	15.24 (.600)
18	71979-0209	71979-0309	71979-0409	22.73 (.895)	20.32 (.800)	17.78 (.700)
20	71979-0210	71979-0310	71979-0410	25.27 (.995)	22.86 (.900)	20.32 (.800)
22	71979-0211	71979-0311	71979-0411	27.81 (1.095)	25.40 (1.000)	22.86 (.900)
24	71979-0212	71979-0312	71979-0412	30.35 (1.195)	27.94 (1.100)	25.40 (1.000)
26	71979-0213	71979-0313	71979-0413	32.89 (1.295)	30.48 (1.200)	27.94 (1.100)
28	71979-0214	71979-0314	71979-0414	36.43 (1.395)	33.02 (1.300)	30.48 (1.200)
30	71979-0215	71979-0315	71979-0415	37.97 (1.495)	35.56 (1.400)	33.02 (1.300)
32	71979-0216	71979-0316	71979-0416	40.51 (1.595)	38.10 (1.500)	35.56 (1.400)
34	71979-0217	71979-0317	71979-0417	43.05 (1.695)	40.64 (1.600)	38.10 (1.500)
36	71979-0218	71979-0318	71979-0418	45.59 (1.795)	43.18 (1.700)	40.64 (1.600)
38	71979-0219	71979-0319	71979-0419	48.13 (1.895)	46.72 (1.800)	43.18 (1.700)
40	71979-0220	71979-0320	71979-0420	50.67 (1.995)	48.26 (1.900)	45.72 (1.800)
42	71979-0221	71979-0321	71979-0421	53.21 (2.095)	50.80 (2.000)	48.26 (1.900)
44	71979-0222	71979-0322	71979-0422	55.75 (2.195)	53.34 (2.100)	50.80 (2.000)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Early entry contact provides .040" additional gold wipe on male post
- Designed for perpendicular board stacking
- Stackable end-to-end
- Flangeless with lower row pin stop offered, contact Molex
- Closed bottom insulator to prevent solder wicking
- SMT version 71979 available, contact Molex for more information

Reference Information

Product Specification: PS-71973
Packaging: Tube
Designed In: Inches

Electrical

Voltage: 250V
Current: 2.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 1.33N (0.3 lb)
Durability: 50 cycles

Physical

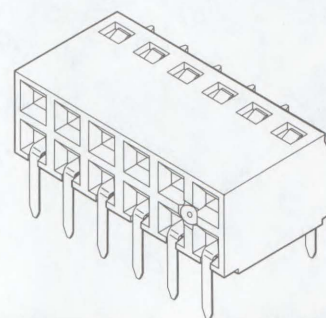
Housing: Black glass-filled LCP, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch C-Grid® PCB Connector

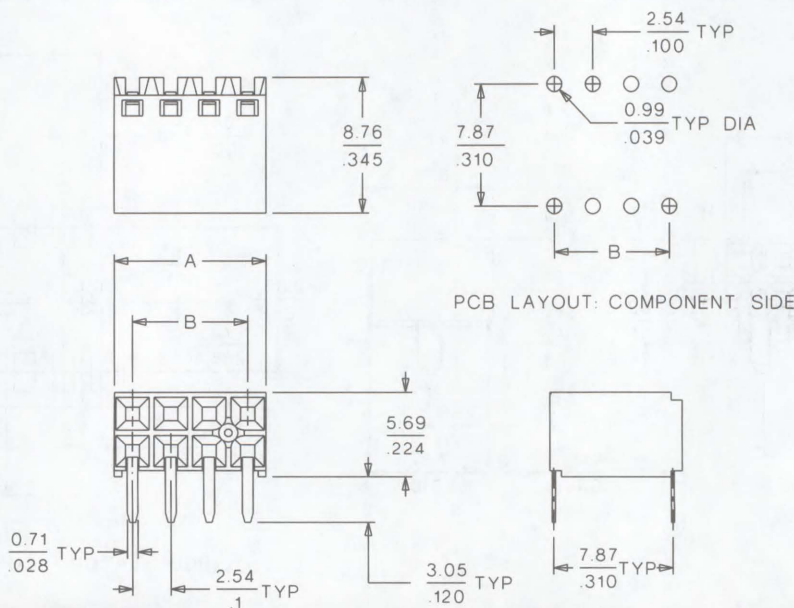
71973

Dual Row, Right Angle Early Entry Receptacle Flangeless



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
8	10.03 (.395)	7.62 (.300)
10	12.57 (.495)	10.16 (.400)
12	15.11 (.595)	12.70 (.500)
14	17.65 (.695)	15.24 (.600)
16	20.19 (.795)	17.78 (.700)
18	22.73 (.895)	20.32 (.800)
20	25.27 (.995)	22.86 (.900)
22	27.81 (1.095)	25.40 (1.000)
24	30.35 (1.195)	27.94 (1.100)
26	32.89 (1.295)	30.48 (1.200)
28	35.43 (1.395)	33.02 (1.300)
30	37.97 (1.495)	35.56 (1.400)
32	40.51 (1.595)	38.10 (1.500)
34	43.05 (1.695)	40.64 (1.600)
36	45.59 (1.795)	43.18 (1.700)
38	48.13 (1.895)	45.72 (1.800)
40	50.67 (1.995)	48.26 (1.900)

Circuits	Dimension	
	A	B
42	53.21 (2.095)	50.80 (2.000)
44	55.75 (2.195)	53.34 (2.100)
46	58.29 (2.295)	55.88 (2.200)
48	60.83 (2.395)	58.42 (2.300)
50	63.37 (2.495)	60.96 (2.400)
52	65.91 (2.595)	63.50 (2.500)
54	68.45 (2.695)	66.04 (2.600)
56	70.99 (2.795)	68.58 (2.700)
58	73.53 (2.895)	71.12 (2.800)
60	76.07 (2.995)	73.66 (2.900)
62	78.61 (3.095)	76.20 (3.000)
64	81.15 (3.195)	78.74 (3.100)
66	83.69 (3.295)	81.28 (3.200)
68	86.23 (3.395)	83.82 (3.300)
70	88.77 (3.495)	86.36 (3.400)
72	91.31 (3.595)	88.90 (3.500)
74	93.85 (3.695)	91.44 (3.600)

Circuits	Dimension	
	A	B
76	96.39 (3.795)	93.98 (3.700)
78	98.93 (3.895)	96.52 (3.800)
80	101.47 (3.995)	99.06 (3.900)
82	104.01 (4.095)	101.60 (4.000)
84	106.55 (4.195)	104.14 (4.100)
86	109.09 (4.295)	106.68 (4.200)
88	111.63 (4.395)	109.22 (4.300)
90	114.17 (4.495)	111.76 (4.400)
92	116.71 (4.595)	114.30 (4.500)
94	119.25 (4.695)	116.84 (4.600)
96	121.79 (4.795)	119.38 (4.700)
98	124.46 (4.895)	121.92 (4.800)
100	126.87 (4.995)	124.46 (4.900)
102	129.41 (5.095)	127.00 (5.000)
104	131.95 (5.195)	129.54 (5.100)
106	134.49 (5.295)	132.08 (5.200)
108	137.03 (5.395)	134.62 (5.300)

Circuits	Dimension	
	A	B
110	139.57 (5.495)	137.16 (5.400)
112	142.11 (5.595)	139.70 (5.500)
114	144.65 (5.695)	142.24 (5.600)
116	147.19 (5.795)	144.78 (5.700)
118	149.73 (5.895)	147.32 (5.800)
120	152.27 (5.995)	149.86 (5.900)
122	154.81 (6.095)	152.40 (6.000)
124	157.35 (6.195)	154.94 (6.100)
126	159.89 (6.295)	157.48 (6.200)
128	162.43 (6.395)	160.02 (6.300)
130	164.97 (6.495)	162.56 (6.400)

Plating Option	Order No.
15μ" Gold	71973-02XX
30μ" Gold	71973-03XX
50μ" Gold	71973-04XX
Replace XX with no. of circuits per row, example: 20 circuit = 71973-0210	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 130 circuits
- Early entry contact provides .040" additional gold wipe on male post
- Designed for perpendicular board stacking
- Lower row pin stop offered, contact Molex
- Closed bottom insulator to prevent solder wicking
- Flange slides over guide ears on header for blind mate applications

Reference Information

Product Specification: PS-71973
Packaging: Tube
Mates With: 70204
Designed In: Inches

Electrical

Voltage: 250V
Current: 2.0A
Contact Resistance: 15mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 1000 MΩ min.

Mechanical

Mating Force: 1.33N (0.3 lb)
Durability: 50 cycles Gold

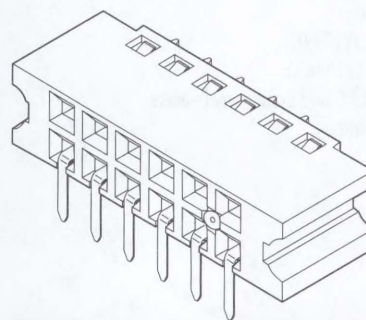
Physical

Housing: High-temperature thermoplastic, UL 94V-0
Contact: Phosphor Bronze
Plating: See Table
Operating Temperature: -40 to +105°C

molex® 2.54mm (.100") Pitch C-Grid® PCB Connector

71973

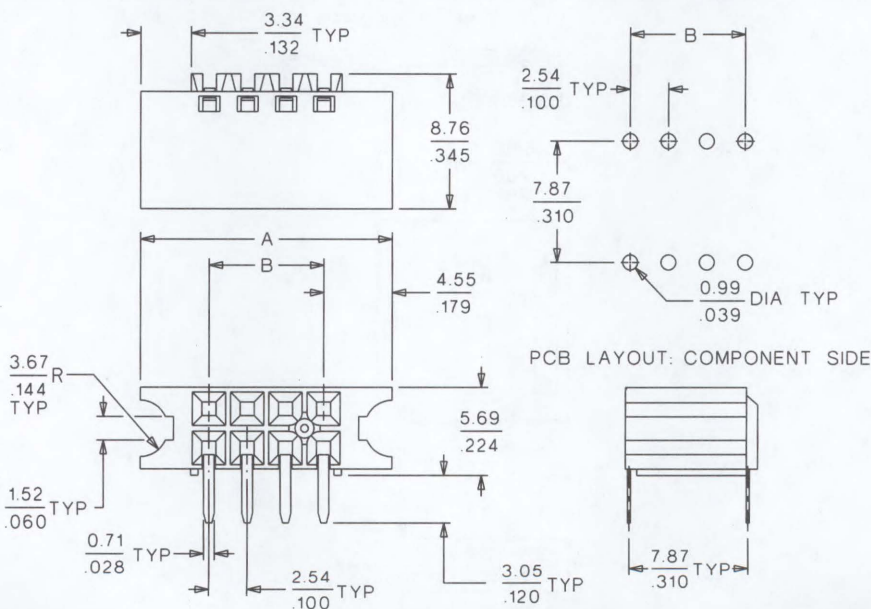
Dual Row, Right Angle Early Entry Receptacle With Flange



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex C-Grid III™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
8	16.71 (.658)	7.62 (.300)
10	19.25 (.758)	10.16 (.400)
12	21.79 (.858)	12.70 (.500)
14	24.33 (.958)	15.24 (.600)
16	26.87 (1.058)	17.78 (.700)
18	29.41 (1.158)	20.32 (.800)
20	31.95 (1.258)	22.86 (.900)
22	34.49 (1.358)	25.40 (1.000)
24	37.03 (1.458)	27.94 (1.100)
26	39.57 (1.558)	30.48 (1.200)
28	42.11 (1.658)	33.02 (1.300)
30	44.65 (1.758)	35.56 (1.400)
32	47.19 (1.858)	38.10 (1.500)
34	49.73 (1.958)	40.64 (1.600)
36	52.27 (2.058)	43.18 (1.700)
38	54.81 (2.158)	45.72 (1.800)
40	57.35 (2.258)	48.26 (1.900)

Circuits	Dimension	
	A	B
42	59.89 (2.358)	50.80 (2.000)
44	62.43 (2.458)	53.34 (2.100)
46	64.97 (2.558)	55.88 (2.200)
48	67.51 (2.658)	58.42 (2.300)
50	70.05 (2.758)	60.96 (2.400)
52	72.59 (2.858)	63.50 (2.500)
54	75.13 (2.958)	66.04 (2.600)
56	77.67 (3.058)	68.58 (2.700)
58	80.21 (3.158)	71.12 (2.800)
60	82.75 (3.258)	73.66 (2.900)
62	85.29 (3.358)	76.20 (3.000)
64	87.83 (3.458)	78.74 (3.100)
66	90.37 (3.558)	81.28 (3.200)
68	92.91 (3.658)	83.82 (3.300)
70	95.45 (3.758)	86.36 (3.400)
72	97.99 (3.858)	88.90 (3.500)
74	100.53 (3.958)	91.44 (3.600)

Circuits	Dimension	
	A	B
76	103.07 (4.058)	93.98 (3.700)
78	105.61 (4.158)	96.52 (3.800)
80	108.15 (4.258)	99.06 (3.900)
82	110.69 (4.358)	101.60 (4.000)
84	113.23 (4.458)	104.14 (4.100)
86	115.77 (4.558)	106.68 (4.200)
88	118.31 (4.658)	109.22 (4.300)
90	120.85 (4.758)	111.76 (4.400)
92	123.39 (4.858)	114.30 (4.500)
94	125.93 (4.958)	116.84 (4.600)
96	128.47 (5.058)	119.38 (4.700)
98	131.01 (5.158)	121.92 (4.800)
100	133.55 (5.258)	124.46 (4.900)
102	136.09 (5.358)	127.00 (5.000)
104	138.63 (5.458)	129.54 (5.100)
106	141.17 (5.558)	132.08 (5.200)
108	143.71 (5.658)	134.62 (5.300)

Circuits	Dimension	
	A	B
110	146.25 (5.758)	137.16 (5.400)
112	148.79 (5.858)	139.70 (5.500)
114	151.33 (5.958)	142.24 (5.600)
116	153.87 (6.058)	144.78 (5.700)
118	156.41 (6.158)	147.32 (5.800)
120	158.95 (6.258)	149.86 (5.900)
122	161.49 (6.358)	152.40 (6.000)
124	164.03 (6.458)	154.94 (6.100)
126	166.57 (6.558)	157.48 (6.200)
128	169.11 (6.658)	160.02 (6.300)
130	171.65 (6.758)	162.56 (6.400)

Plating Option	Order No.
15μ Gold	71973-10XX
30μ Gold	71973-11XX
50μ Gold	71973-12XX
Replace XX with no. of circuits per row, example: 20 circuit = 71973-1210	

FEATURES AND SPECIFICATIONS

Features and Benefits

- Easily applied without soldering and reliable without accidental disconnects
- Low cost alternative to DIP switches
- Increases current flow and decreases resistance vs DIP switches
- Dual beam terminals: 2 points of contact per pin
- Open and closed top versions
- Stackable end-to-end and side-to-side

Reference Information

Product Specification: PS-7859

Packaging: Bag

UL File No.: E29179 (H)

CSA File No.: LRT19980A

Mates With: All C-Grid breakaway headers

Designed In: Inches

Electrical

Voltage: 250V

Current: 5.0A

Contact Resistance: 15mΩ max. Gold

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 100K MΩ min.

Mechanical

Contact Retention to Housing: 26.69N (4 lb)

Mating Force: 4.448N (6 lb)

Unmating Force: 0.98N (1 lb)

Durability: 25 cycles Tin/Lead and 200 cycles Gold

Physical

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

Contact: Phosphor Bronze

Plating: See Table

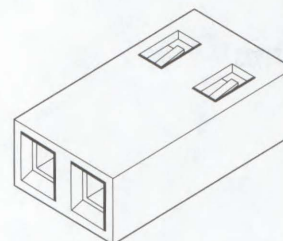
Operating Temperature: -40 to +105°C



2.54mm (.100") Pitch
C-Grid®
Shunt/Jumper

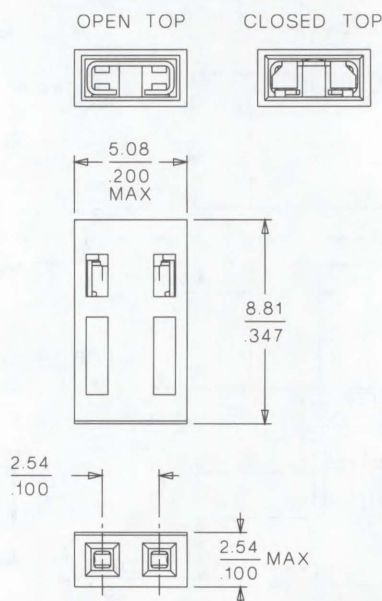
7859

2-Circuit



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With C-Grid III™ Components



ORDERING INFORMATION

Open Top		Closed Top	
Order No.	Plating	Order No.	Plating
• 15-29-1024	15μ" Gold	15-29-1025	15μ" Gold
• 15-29-1026	30μ" Gold	15-29-1027	30μ" Gold
• 15-38-1024	150μ" Tin/Lead	15-38-1026	150μ" Tin/Lead

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Fully stackable
- Center probe hole—for continuity testing and easy pull-off
- Color-coded housings for plating and identification
- Delivered on break-off carrier strips for easy handling (10 per strip)
- Recommended to be applied after mating header is soldered

Reference Information

Product Specification: PS-90059

Packaging: Strips

UL File No.: E29179

CSA File No.: LR19980

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A Gold; 1.5A Tin

Contact Resistance: 12mΩ max. Gold; 15mΩ max. Tin

Dielectric Withstanding Voltage: 2000V

Insulation Resistance: 2000 MΩ max.

Mechanical

Mating Force: 7N max.

Unmating Force: 0.3N Gold; 0.5N Tin min.

Durability: 50 cycles Gold and 20 cycles Tin

Physical

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

Contact: Phosphor Bronze

Plating: See Table

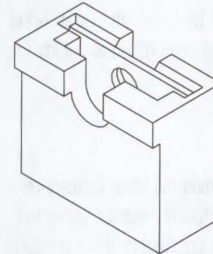
Operating Temperature: -55 to +125°C

Height: 4.95mm (.195") max.

molex® 2.54mm (.100") Pitch
C-Grid®
Micro Shunt

90059

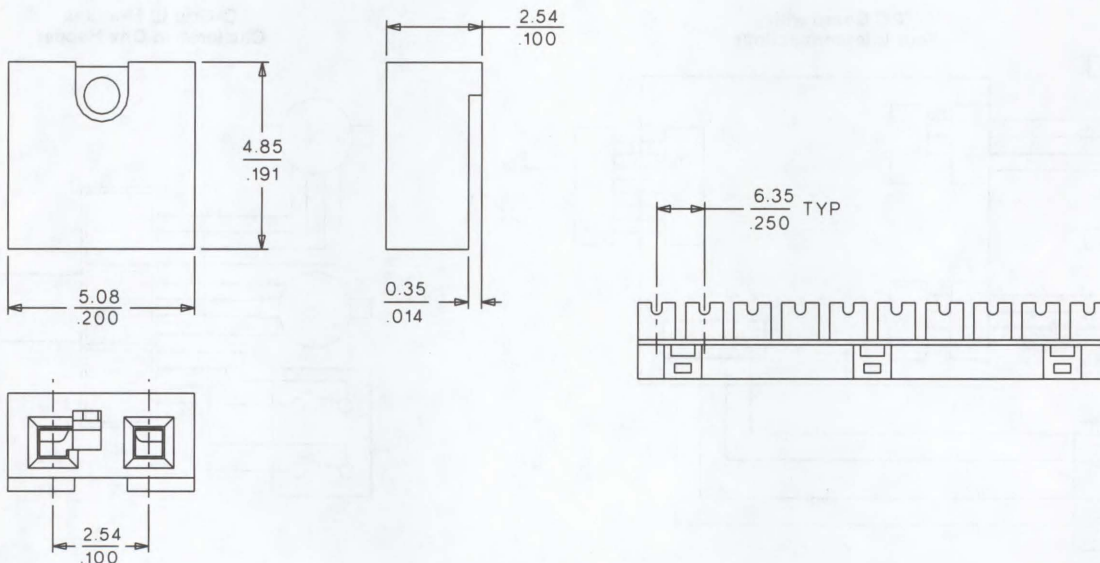
Low Profile



C

2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.	Plating No.	Color
• 90059-0009*	1	White
• 90059-0007*	2	Black
90059-0013	3	Black
90059-0014	4	White
90059-0012	5	White

• US Standard Product, available through Molex franchised distributors

* Preferred Version In Europe/Americas

Plating No. 1: 0.38μm (15μ") Gold in contact area over 0.76μm (30μ") Nickel with Gold flash overall

Plating No. 2: 5.0μm (200μ") min. Tin over 0.2μm (8μ") min. Copper

Plating No. 3: 0.9μm (35μ") min. Pretinned

Plating No. 4: 0.1μm (4μ") min. Gold over 1.0μm (40μ") min. Nickel overall

Plating No. 5: 0.76μm (30μ") Gold over 1.27μm (50μ") Nickel in contact area with 0.2μm (8μ") min. Nickel overall

INTRODUCTION

The C-Grid III 2.54mm (.100") pitch post and receptacle interconnection system offers complete design flexibility and modular components that provide the widest range of electronic packaging alternatives. C-Grid III is a highly versatile 2.54mm interconnection system offering unique design features:

Surface Treatment

C-Grid III is available in 3 standard platings. Two performance levels of selective Gold and one of Tin/Lead, all over a Nickel-plated substrate, guarantee the optimum ratio of quality versus cost for your application.

Flexibility

C-Grid III has been developed to meet the latest industry requirements. Two different termination techniques, solder tail, crimp and insulation displacement, are combined in a complete interconnection system which is based on north/south contact orientation. Headers will accept both discrete wire and ribbon cable connectors.

Advantage by Design

C-Grid III box contact design employs the same mating concept with all termination techniques. A uniform locking system on all contacts allows full interchangeability inside different housing styles.

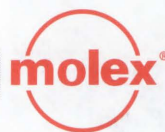
Interchangeability

C-Grid III is fully compatible with the industry standard DIN 41651 as well as the French norm HE-13/14. Moreover, it is fully intermateable/interchangeable with Molex's QF-50 product range.

Lower Applied Cost

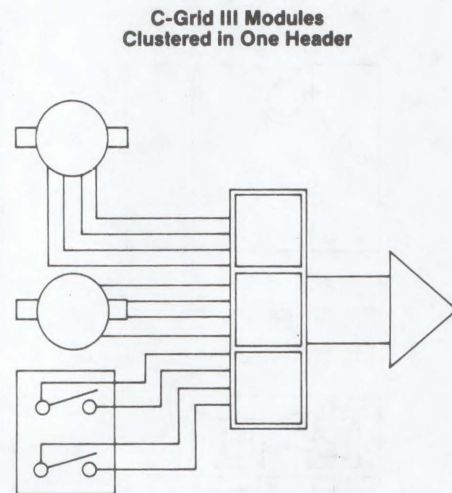
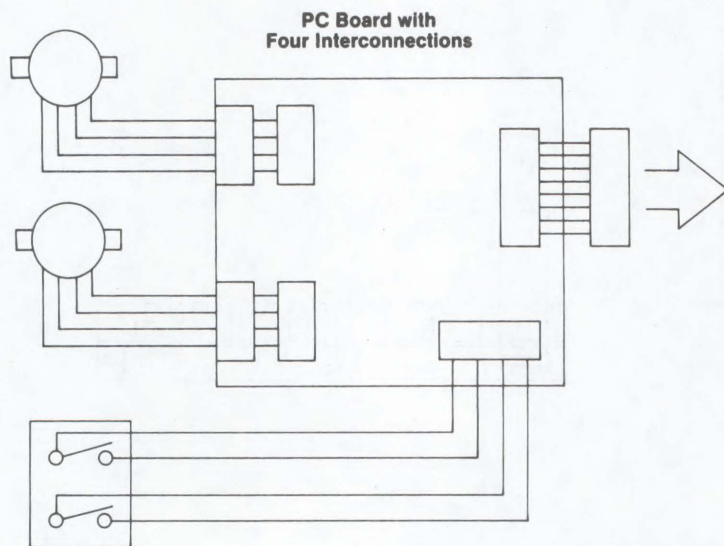
C-Grid III system incorporates a wide range of advanced application tooling, from manually operated hand tools to semi-automatic harness making machines.

C-Grid III offers the widest range of interconnection packaging alternatives in the electronic market today.



2.54mm (.100") Pitch C-Grid III™

Not For Use With Molex SL™ Components



FEATURES AND SPECIFICATIONS

Features and Benefits

- Fully enclosed contact box
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress

Reference Information

Product Specification: PS-99020-0001

Packaging: Chain or bag

Mates With: 0.64mm (.025") square pins

Use With: 90123, 90142, 90143, 90156 and 90160

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Mechanical

Contact Retention to Housing: 15N (1.5kgf)

Normal Force: 1N

Physical

Contact: Copper Alloy

Plating: See Table

Wire Range: 22 to 24 and 26 to 28 AWG

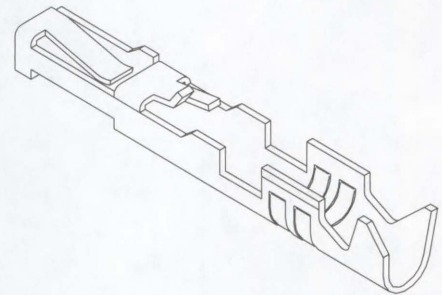
Wire Insulation Diameter: 1.70mm (.067") max.



2.54mm (.100") Pitch C-Grid III™ Terminal

90119

**Female
Crimp**

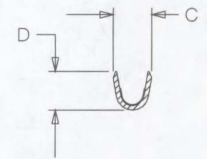
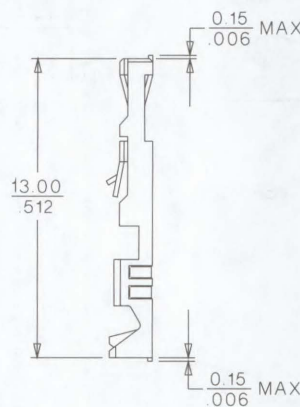
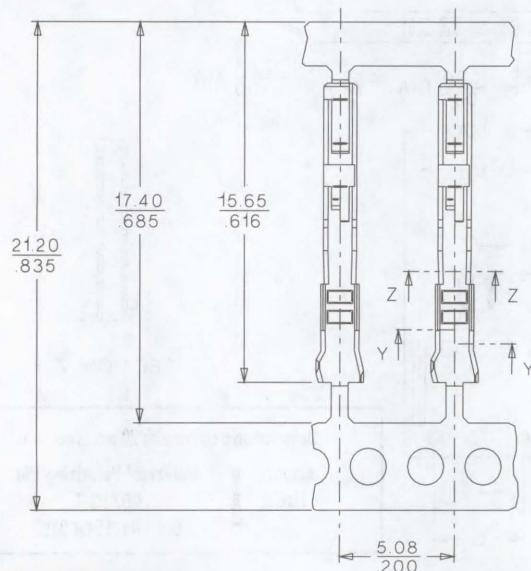


C

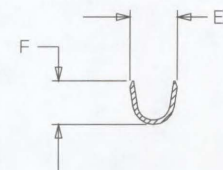
2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



SECTION Z-Z
WIRE BARREL



SECTION Y-Y
INSULATION BARREL

ORDERING INFORMATION AND DIMENSIONS

Order No.	Plating Option	Form	Wire Size (AWG)	Insulation Diameter Range	Dimension			
					C	D	E	F
• 90119-0109	A	Chain—Left Hand Feed	22-24	1.02/1.47 (.040/.058)	1.70 (.067)	1.70 (.067)	2.10 (.083)	1.90 (.075)
• 90119-0110	E							
• 90119-0111	F		26-28	0.76/1.22 (.030/.048)	1.37 (.054)	1.37 (.054)	2.00 (.079)	1.70 (.067)
• 90119-0120	A							
• 90119-0121	E							
• 90119-0122	F							
90119-2109	A	Bag	22-24	1.02/1.47 (.040/.058)	1.70 (.067)	1.70 (.067)	2.10 (.083)	1.90 (.075)
90119-2110	E							
90119-2111	F		26-28	0.76/1.22 (.030/.048)	1.37 (.054)	1.37 (.054)	2.00 (.079)	1.70 (.067)
90119-2120	A							
90119-2121	E							
90119-2122	F							

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 1.00μm (39μ") min. Hot Tin dip

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- 2 and 4 polarizing buttons
- Stackable in 2 directions

Reference Information

Product Specification: PS-99020-0001
 Packaging: Bag
 Mates With: 90120, 90121 and 90136
 Use With: 90119
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Normal Force: 1N

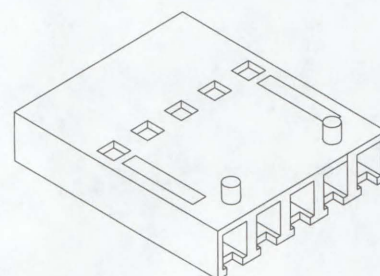
Physical

Housing: Black polyphenylene oxide, UL 94V-1
 Operating Temperature: -55 to +105°C
 Polarization: Use 2 button version only with single row adapter and use 2 and 4 button versions with dual row adapter



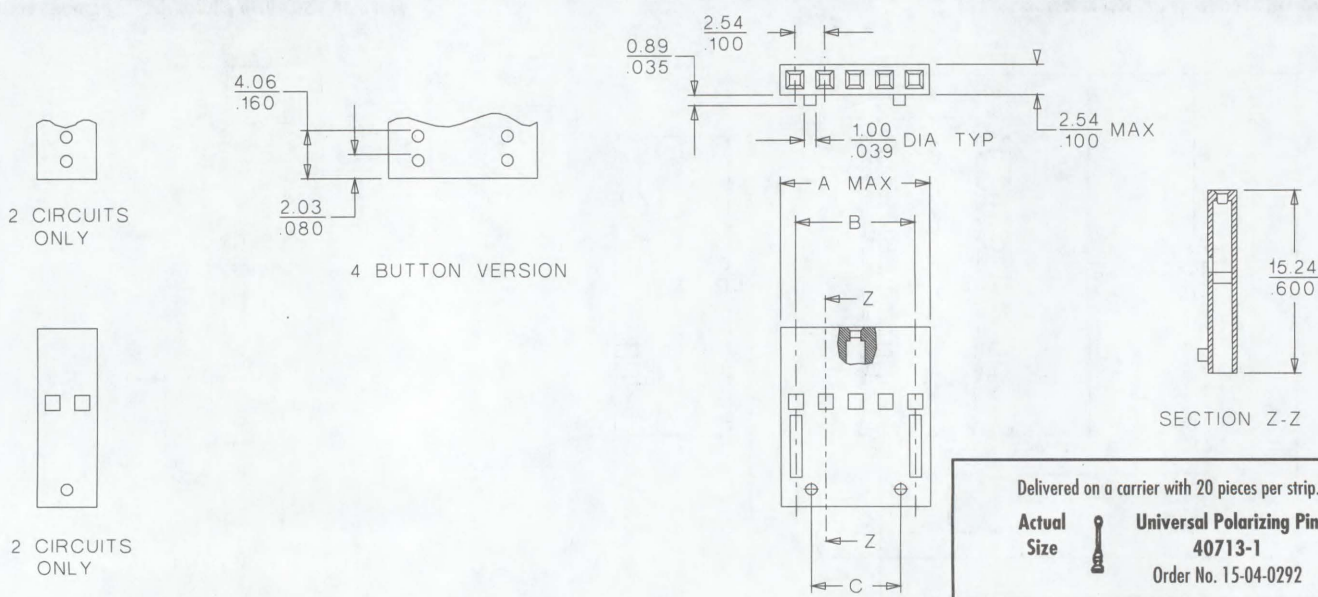
2.54mm (.100") Pitch C-Grid III® Modular Crimp Connector Housing

90123 Single Row



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension		
	2 Buttons	4 Buttons	A	B	C
2	90123-0102	90123-0202*	5.08 (.200)	2.54 (.100)	
3	90123-0103	90123-0203	7.62 (.300)	5.08 (.200)	2.54 (.100)
4	90123-0104	90123-0204	10.16 (.400)	7.62 (.300)	5.08 (.200)
5	90123-0105	90123-0205	12.70 (.500)	10.16 (.400)	7.62 (.300)
6	90123-0106	90123-0206	15.24 (.600)	12.70 (.500)	10.16 (.400)
7	90123-0107	90123-0207	17.78 (.700)	15.24 (.600)	12.70 (.500)
8	90123-0108	90123-0208	20.32 (.800)	17.78 (.700)	15.24 (.600)
9	90123-0109	90123-0209	22.86 (.900)	20.32 (.800)	17.78 (.700)
10	90123-0110	90123-0210	25.40 (1.000)	22.86 (.900)	20.32 (.800)
12	90123-0112	90123-0212	30.38 (1.200)	27.94 (1.100)	25.40 (1.000)
13	90123-0113	90123-0213	33.02 (1.300)	30.48 (1.200)	27.94 (1.100)
15	90123-0115	90123-0215	38.10 (1.500)	35.56 (1.400)	33.02 (1.300)
18	90123-0118	90123-0218	45.72 (1.800)	43.18 (1.700)	40.64 (1.600)
19	90123-0119	90123-0219	48.26 (1.900)	45.72 (1.800)	43.18 (1.700)
20	90123-0120	90123-0220	50.80 (2.000)	48.26 (1.900)	45.72 (1.800)
24	90123-0124	90123-0224	60.96 (2.400)	58.42 (2.300)	55.88 (2.200)
25	90123-0125	90123-0225	63.50 (2.500)	60.96 (2.400)	58.42 (2.300)
32	90123-0132	90123-0232	81.28 (3.200)	78.74 (3.100)	76.20 (3.000)

* 2 buttons only
 For other available circuit sizes contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001
 Packaging: Bag
 Mates With: 90120, 90121 and 90136
 Use With: 90119
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A max.
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Normal Force: 1N

Physical

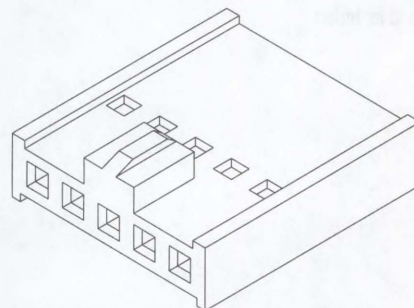
Housing: Black polyphenylene oxide, UL 94V-1
 Operating Temperature: -55 to +105°C



2.54mm (.100") Pitch C-Grid III™ Crimp Connector Housing

90156

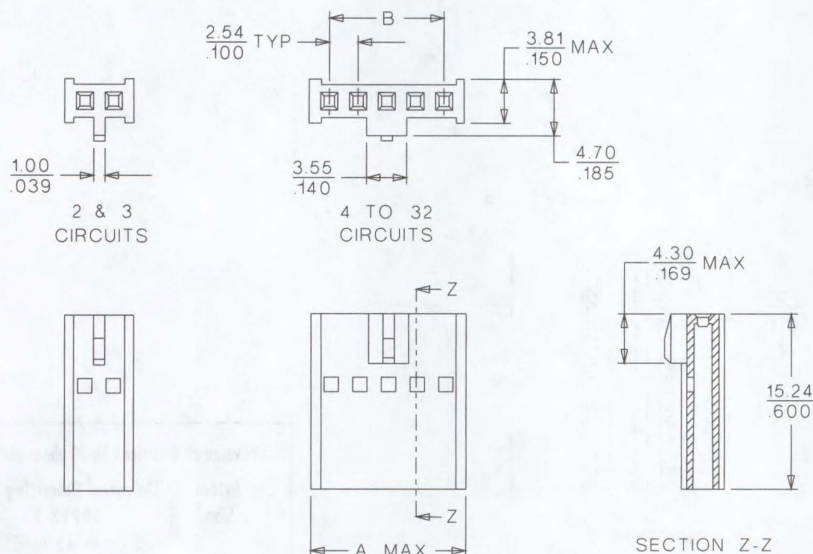
Single Row



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



Delivered on a carrier with 20 pieces per strip.

Actual Size Universal Polarizing Pin
 40713-1
 Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	90156-0142	6.14 (.242)	2.54 (.100)
3	90156-0143	8.68 (.342)	5.08 (.200)
4	90156-0144	11.22 (.442)	7.62 (.300)
5	90156-0145	13.76 (.542)	10.16 (.400)
6	90156-0146	16.30 (.642)	12.70 (.500)
7	90156-0147	18.84 (.742)	15.24 (.600)
8	90156-0148	21.38 (.842)	17.78 (.700)
9	90156-0149	23.92 (.942)	20.32 (.800)
10	90156-0150	26.46 (1.042)	22.86 (.900)
12	90156-0152	31.54 (1.242)	27.94 (1.100)

Circuits	Order No.	Dimension	
		A	B
13	90156-0153	34.08 (1.342)	30.48 (1.200)
14	90156-0154	36.62 (1.442)	33.02 (1.300)
15	90156-0155	39.16 (1.542)	35.56 (1.400)
16	90156-0156	41.70 (1.642)	38.10 (1.500)
18	90156-0158	46.78 (1.842)	43.18 (1.700)
20	90156-0160	51.86 (2.042)	48.26 (1.900)
22	90156-0162	56.94 (2.242)	53.34 (2.100)
25	90156-0165	64.56 (2.542)	60.96 (2.400)
30	90156-0170	77.26 (3.042)	73.66 (2.900)
32	90156-0172	82.34 (3.242)	78.74 (3.100)

For other available circuit sizes contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 64 circuits
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: 90122, 90130 and 90131

Use With: 90119

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A max.

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.

Normal Force: 1N

Physical

Housing: Black polyphenylene oxide, UL 94V-1

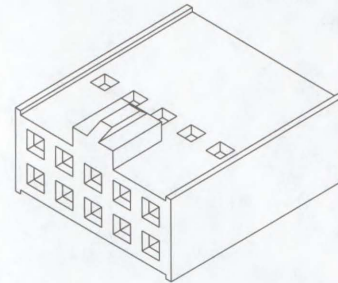
Operating Temperature: -55 to +105°C



2.54mm (.100") Pitch C-Grid III™ Crimp Connector Housing

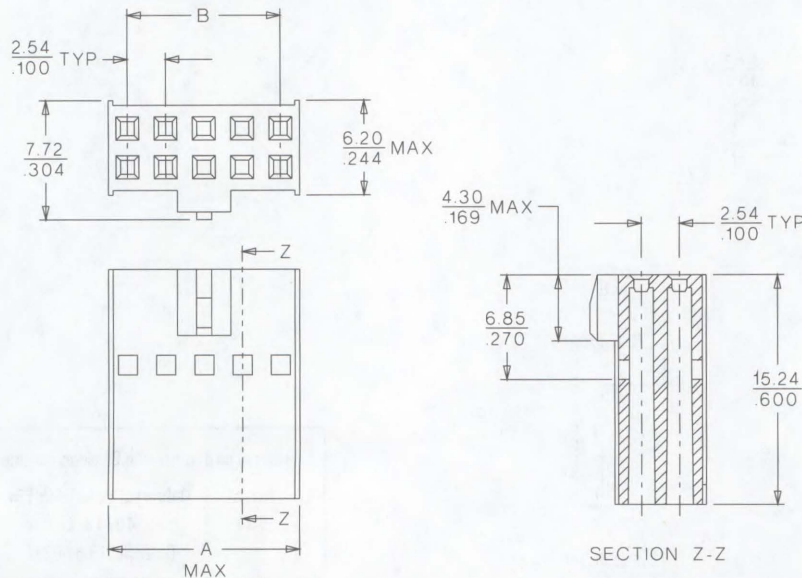
90142

Dual Row



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



Delivered on a carrier with 20 pieces per strip.

Actual
Size

Universal Polarizing Pin
40713-1
Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
6	90142-0006	7.77 (.306)	5.08 (.200)
8	90142-0008	10.31 (.406)	7.62 (.300)
10	90142-0010	12.85 (.506)	10.16 (.400)
12	90142-0012	15.39 (.606)	12.70 (.500)
14	90142-0014	17.93 (.706)	15.24 (.600)
16	90142-0016	20.47 (.806)	17.78 (.700)
18	90142-0018	23.01 (.906)	20.32 (.800)
20	90142-0020	25.55 (1.006)	22.86 (.900)
22	90142-0022	28.09 (1.106)	25.55 (1.006)
24	90142-0024	30.63 (1.206)	27.94 (1.100)
26	90142-0026	33.17 (1.306)	30.48 (1.200)

Circuits	Order No.	Dimension	
		A	B
30	90142-0030	38.25 (1.506)	35.56 (1.400)
34	90142-0034	43.33 (1.706)	40.64 (1.600)
36	90142-0036	45.87 (1.806)	43.18 (1.700)
38	90142-0038	48.41 (1.906)	45.72 (1.800)
40	90142-0040	50.95 (2.006)	48.26 (1.900)
44	90142-0044	56.03 (2.206)	53.34 (2.100)
50	90142-0050	63.65 (2.506)	60.96 (2.400)
54	90142-0054	68.73 (2.706)	66.06 (2.600)
60	90142-0060	76.35 (3.006)	73.66 (2.900)
64	90142-0064	81.43 (3.206)	78.74 (3.100)
68	90142-0068	86.51 (3.406)	83.82 (3.300)

For other available circuit sizes contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 64 circuits
- With and without polarizing buttons
- Stackable end-to-end

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: 90122, 90130 and 90131

Use With: 90119

Designed In: Inches

Electrical

Voltage: 350V max.

Current: 3.0A max.

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.

Normal Force: 1N

Physical

Housing: Black polyphenylene oxide, UL 94V-1

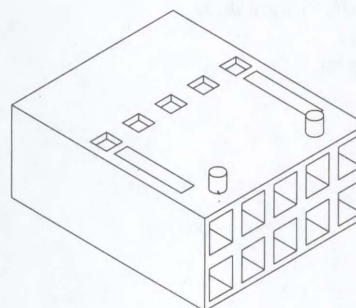
Operating Temperature: -55 to +105°C

Polarization: 4 buttons for use with adapter 90140



2.54mm (.100") Pitch C-Grid III™ Modular Crimp Connector Housing

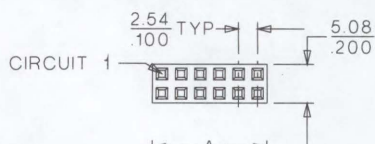
90143
Dual Row



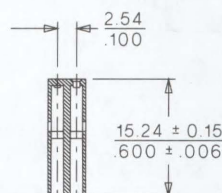
2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

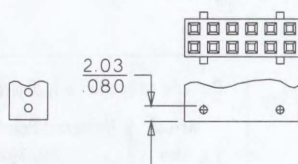
Not For Use With Molex SL™ Components



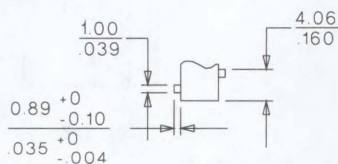
NO POLARISING BUTTONS



SECTION Z-Z



4 CIRCUIT 4 POLARISING BUTTONS



4 POLARISING BUTTONS

Delivered on a carrier with 20 pieces per strip.

Actual
Size



Universal Polarizing Pin
40713-1

Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	0 Buttons	4 Buttons	A	B
4	90143-0004	90143-0104*	5.08 (.200)	2.54 (.100)
6	90143-0006	90143-0106	7.62 (.300)	5.08 (.200)
8	90143-0008	90143-0108	10.16 (.400)	7.62 (.300)
10	90143-0010	90143-0110	12.70 (.500)	10.16 (.400)
12	90143-0012	90143-0112	15.24 (.600)	12.70 (.500)
14	90143-0014	90143-0114	17.78 (.700)	15.24 (.600)
16	90143-0016	90143-0116	20.32 (.800)	17.78 (.700)
18	90143-0018	90143-0118	22.86 (.900)	20.32 (.800)
20	90143-0020	90143-0120	25.40 (1.000)	22.86 (.900)
26	90143-0026	90143-0126	33.02 (1.300)	30.48 (1.200)
34	90143-0034	90143-0134	43.18 (1.700)	40.64 (1.600)
36	90143-0036	90143-0136	45.72 (1.800)	43.18 (1.700)
40	90143-0040	90143-0140	50.80 (2.000)	48.26 (1.900)
50	90143-0050	90143-0150	63.50 (2.500)	60.96 (2.400)
60	90143-0060	90143-0160	76.20 (3.000)	73.66 (2.900)
64	90143-0064	90143-0164	81.28 (3.200)	78.74 (3.100)

* 0 buttons only

For other available circuit sizes contact Molex

C
2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 64 circuits
- Locking shoulders according to DIN 41651
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 5576, 5578 and 90130
 Use With: 90119
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A max.
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Normal Force: 1N

Physical

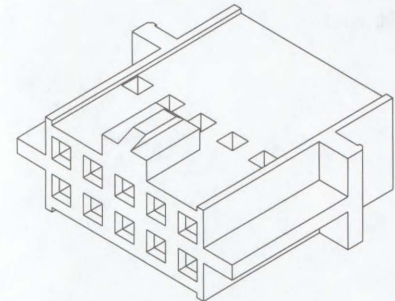
Housing: Black polyphenylene oxide, UL 94V-1
 Operating Temperature: -55 to +105°C



2.54mm (.100") Pitch C-Grid III™ Crimp Connector Housing

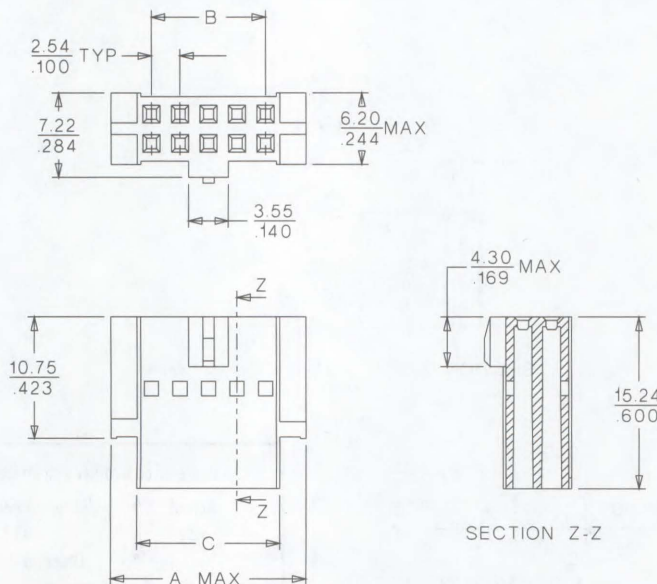
90160

Dual Row



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



Delivered on a carrier with 20 pieces per strip.

Actual Size Universal Polarizing Pin
 40713-1
 Order No. 15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension		
		A	B	C
8	90160-0108	14.93 (.588)	7.62 (.300)	10.16 (.400)
10	90160-0110	17.47 (.688)	10.16 (.400)	12.70 (.500)
12	90160-0112	20.01 (.788)	12.70 (.500)	15.24 (.600)
14	90160-0114	22.55 (.888)	15.24 (.600)	17.78 (.700)
16	90160-0116	25.09 (.988)	17.78 (.700)	20.32 (.800)
20	90160-0120	30.17 (1.188)	22.86 (.900)	25.40 (1.000)
26	90160-0126	37.79 (1.488)	30.48 (1.200)	33.02 (1.300)
34	90160-0134	47.95 (1.888)	40.64 (1.600)	43.18 (1.700)
40	90160-0140	55.57 (2.188)	48.26 (1.900)	50.80 (2.000)
50	90160-0150	68.27 (2.688)	60.96 (2.400)	63.50 (2.500)
60	90160-0160	80.97 (3.188)	73.66 (2.900)	76.20 (3.000)
64	90160-0164	86.05 (3.388)	78.74 (3.100)	81.28 (3.200)

For other available circuit sizes contact Molex

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 40 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

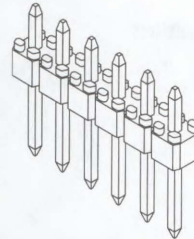
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Header

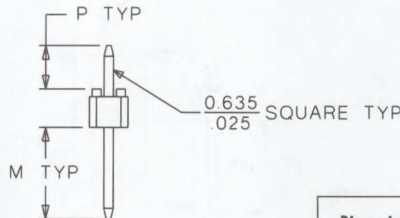
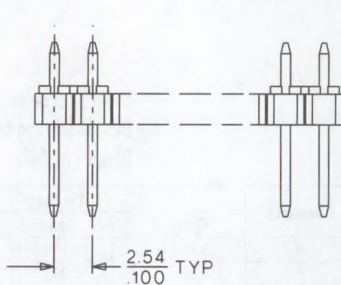
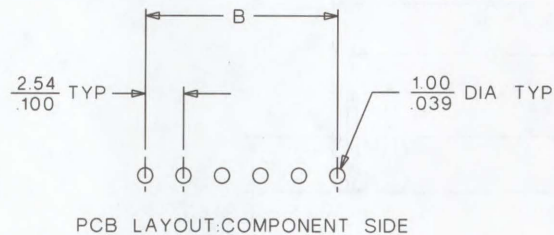
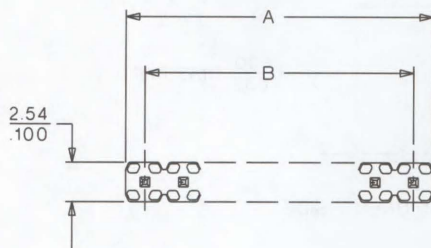
90120

Single Row Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



Order Nos. below reflect standard
Dim. M (Mating End)
Dim. P (PC Tail)

Dimension	Pin Length		
	Option 1	Option 2	Option 3
M	6.75 (.266)	5.75 (.226)	5.75 (.226)
P	4.50 (.177)	2.90 (.114)	4.50 (.177)

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
2	90120-0122	90120-0762	90120-0922	5.08 (.200)	2.54 (.100)
3	90120-0123	90120-0763	90120-0923	7.62 (.300)	5.08 (.200)
4	90120-0124	90120-0764	90120-0924	10.16 (.400)	7.62 (.300)
5	90120-0125	90120-0765	90120-0925	12.70 (.500)	10.16 (.400)
6	90120-0126	90120-0766	90120-0926	15.24 (.600)	12.70 (.500)
7	90120-0127	90120-0767	90120-0927	17.78 (.700)	15.24 (.600)
8	90120-0128	90120-0768	90120-0928	20.32 (.800)	17.78 (.700)
9	90120-0129	90120-0769	90120-0929	22.86 (.900)	20.32 (.800)
10	90120-0130	90120-0770	90120-0930	25.40 (1.000)	22.86 (.900)
11	90120-0131	90120-0771	90120-0931	27.94 (1.100)	25.40 (1.000)
12	90120-0132	90120-0772	90120-0932	30.48 (1.200)	27.94 (1.100)
13	90120-0133	90120-0773	90120-0933	33.02 (1.300)	30.48 (1.200)
14	90120-0134	90120-0774	90120-0934	35.56 (1.400)	33.02 (1.300)
15	90120-0135	90120-0775	90120-0935	38.10 (1.500)	35.56 (1.400)
16	90120-0136	90120-0776	90120-0936	40.64 (1.600)	38.10 (1.500)
17	90120-0137	90120-0777	90120-0937	43.18 (1.700)	40.64 (1.600)
18	90120-0138	90120-0778	90120-0938	45.72 (1.800)	43.18 (1.700)
19	90120-0139	90120-0779	90120-0939	48.76 (1.900)	45.72 (1.800)
20	90120-0140	90120-0780	90120-0940	50.80 (2.000)	48.76 (1.900)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
21	90120-0141	90120-0781	90120-0941	53.34 (2.100)	50.80 (2.000)
22	90120-0142	90120-0782	90120-0942	55.88 (2.200)	53.34 (2.100)
23	90120-0143	90120-0783	90120-0943	58.42 (2.300)	55.88 (2.200)
24	90120-0144	90120-0784	90120-0944	60.46 (2.400)	58.42 (2.300)
25	90120-0145	90120-0785	90120-0945	63.50 (2.500)	60.46 (2.400)
26	90120-0146	90120-0786	90120-0946	66.04 (2.600)	63.50 (2.500)
27	90120-0147	90120-0787	90120-0947	68.58 (2.700)	66.04 (2.600)
28	90120-0148	90120-0788	90120-0948	71.12 (2.800)	68.58 (2.700)
29	90120-0149	90120-0789	90120-0949	73.66 (2.900)	71.12 (2.800)
30	90120-0150	90120-0790	90120-0950	76.20 (3.000)	73.66 (2.900)
31	90120-0151	90120-0791	90120-0951	78.74 (3.100)	76.20 (3.000)
32	90120-0152	90120-0792	90120-0952	81.28 (3.200)	78.74 (3.100)
33	90120-0153	90120-0793	90120-0953	83.82 (3.300)	81.28 (3.200)
34	90120-0154	90120-0794	90120-0954	86.36 (3.400)	83.82 (3.300)
35	90120-0155	90120-0795	90120-0955	88.90 (3.500)	86.36 (3.400)
36	90120-0156	90120-0796	90120-0956	91.44 (3.600)	88.90 (3.500)
37	90120-0157	90120-0797	90120-0957	93.98 (3.700)	91.44 (3.600)
38	90120-0158	90120-0798	90120-0958	96.52 (3.800)	93.98 (3.700)
39	90120-0159	90120-0799	90120-0959	99.06 (3.900)	96.52 (3.800)
40	• 90120-0160	• 90120-0800	• 90120-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 40 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

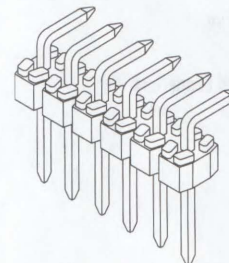
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Header

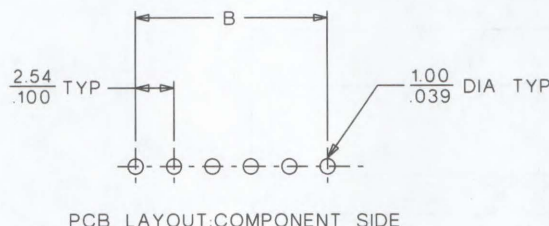
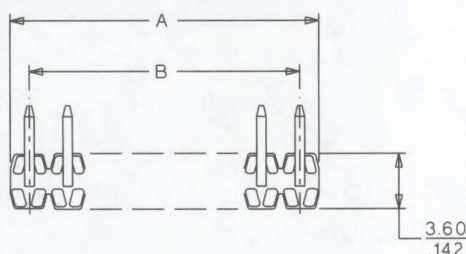
90121

Single Row, Right Angle

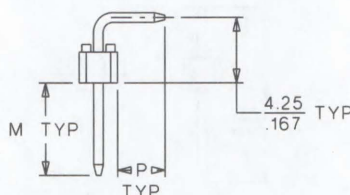
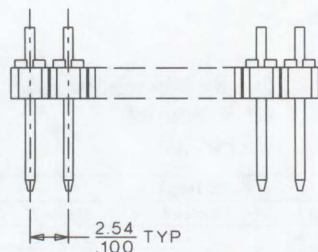


CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



PCB LAYOUT: COMPONENT SIDE



Order Nos. below reflect standard
Dim. M (Mating End)
Dim. P (PC Tail)

Dimension	Pin Length		
	Option 1	Option 2	Option 3
M	6.75 (.266)	5.75 (.226)	5.75 (.226)
P	4.50 (.177)	2.90 (.114)	4.50 (.177)

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
2	90121-0122	90121-0762	90121-0922	5.08 (.200)	2.54 (.100)
3	90121-0123	90121-0763	90121-0923	7.62 (.300)	5.08 (.200)
4	90121-0124	90121-0764	90121-0924	10.16 (.400)	7.62 (.300)
5	90121-0125	90121-0765	90121-0925	12.70 (.500)	10.16 (.400)
6	90121-0126	90121-0766	90121-0926	15.24 (.600)	12.70 (.500)
7	90121-0127	90121-0767	90121-0927	17.78 (.700)	15.24 (.600)
8	90121-0128	90121-0768	90121-0928	20.32 (.800)	17.78 (.700)
9	90121-0129	90121-0769	90121-0929	22.86 (.900)	20.32 (.800)
10	90121-0130	90121-0770	90121-0930	25.40 (1.000)	22.86 (.900)
11	90121-0131	90121-0771	90121-0931	27.94 (1.100)	25.40 (1.000)
12	90121-0132	90121-0772	90121-0932	30.48 (1.200)	27.94 (1.100)
13	90121-0133	90121-0773	90121-0933	33.02 (1.300)	30.48 (1.200)
14	90121-0134	90121-0774	90121-0934	35.56 (1.400)	33.02 (1.300)
15	90121-0135	90121-0775	90121-0935	38.10 (1.500)	35.56 (1.400)
16	90121-0136	90121-0776	90121-0936	40.64 (1.600)	38.10 (1.500)
17	90121-0137	90121-0777	90121-0937	43.18 (1.700)	40.64 (1.600)
18	90121-0138	90121-0778	90121-0938	45.72 (1.800)	43.18 (1.700)
19	90121-0139	90121-0779	90121-0939	48.26 (1.900)	45.72 (1.800)
20	90121-0140	90121-0780	90121-0940	50.80 (2.000)	48.26 (1.900)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
21	90121-0141	90121-0781	90121-0941	53.34 (2.100)	50.80 (2.000)
22	90121-0142	90121-0782	90121-0942	55.88 (2.200)	53.34 (2.100)
23	90121-0143	90121-0783	90121-0943	58.42 (2.300)	55.88 (2.200)
24	90121-0144	90121-0784	90121-0944	60.96 (2.400)	58.42 (2.300)
25	90121-0145	90121-0785	90121-0945	63.50 (2.500)	60.96 (2.400)
26	90121-0146	90121-0786	90121-0946	66.04 (2.600)	63.50 (2.500)
27	90121-0147	90121-0787	90121-0947	68.58 (2.700)	66.04 (2.600)
28	90121-0148	90121-0788	90121-0948	71.12 (2.800)	68.58 (2.700)
29	90121-0149	90121-0789	90121-0949	73.66 (2.900)	71.12 (2.800)
30	90121-0150	90121-0790	90121-0950	76.20 (3.000)	73.66 (2.900)
31	90121-0151	90121-0791	90121-0951	78.74 (3.100)	76.20 (3.000)
32	90121-0152	90121-0792	90121-0952	81.28 (3.200)	78.74 (3.100)
33	90121-0153	90121-0793	90121-0953	83.82 (3.300)	81.28 (3.200)
34	90121-0154	90121-0794	90121-0954	86.36 (3.400)	83.82 (3.300)
35	90121-0155	90121-0795	90121-0955	88.90 (3.500)	86.36 (3.400)
36	90121-0156	90121-0796	90121-0956	91.44 (3.600)	88.90 (3.500)
37	90121-0157	90121-0797	90121-0957	93.98 (3.700)	91.44 (3.600)
38	90121-0158	90121-0798	90121-0958	96.52 (3.800)	93.98 (3.700)
39	90121-0159	90121-0799	90121-0959	99.06 (3.900)	96.52 (3.800)
40	• 90121-0160	• 90121-0800	• 90121-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Easy breakaway to smaller sizes
- Stackable side-to-side
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention and high mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V max.

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

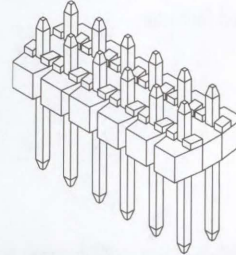
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Header

90131

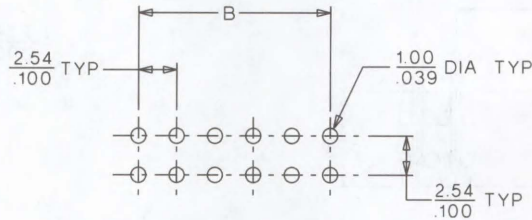
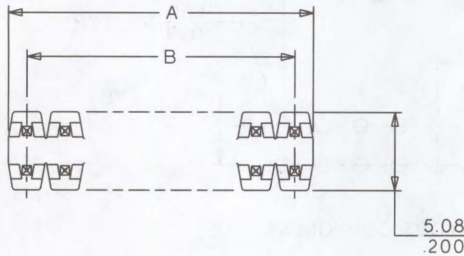
Dual Row Vertical



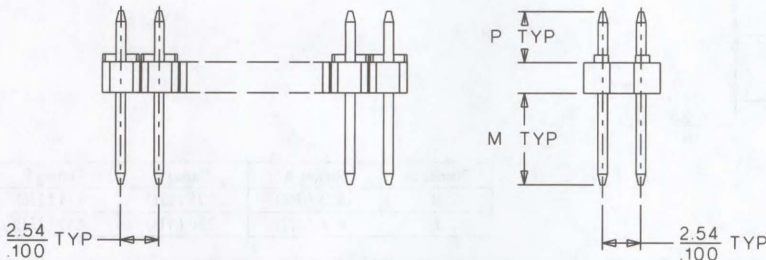
2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



PCB LAYOUT: COMPONENT SIDE



Order Nos. below reflect standard
Dim. M (Mating End)
Dim. P (PC Tail)

Dimension	Pin Length		
	Option 1	Option 2	Option 3
M	6.75 (.266)	5.75 (.226)	5.75 (.226)
P	4.50 (.177)	2.90 (.114)	4.50 (.177)

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
4	90131-0122	90131-0762	90131-0922	5.08 (.200)	2.54 (.100)
6	90131-0123	90131-0763	90131-0923	7.62 (.300)	5.08 (.200)
8	90131-0124	90131-0764	90131-0924	10.16 (.400)	7.62 (.300)
10	90131-0125	90131-0765	90131-0925	12.70 (.500)	10.16 (.400)
12	90131-0126	90131-0766	90131-0926	15.24 (.600)	12.70 (.500)
14	90131-0127	90131-0767	90131-0927	17.78 (.700)	15.24 (.600)
16	90131-0128	90131-0768	90131-0928	20.32 (.800)	17.78 (.700)
18	90131-0129	90131-0769	90131-0929	22.86 (.900)	20.32 (.800)
20	90131-0130	90131-0770	90131-0930	25.40 (1.000)	22.86 (.900)
22	90131-0131	90131-0771	90131-0931	27.94 (1.100)	25.40 (1.000)
24	90131-0132	90131-0772	90131-0932	30.48 (1.200)	27.94 (1.100)
26	90131-0133	90131-0773	90131-0933	33.02 (1.300)	30.48 (1.200)
28	90131-0134	90131-0774	90131-0934	35.56 (1.400)	33.02 (1.300)
30	90131-0135	90131-0775	90131-0935	38.10 (1.500)	35.56 (1.400)
32	90131-0136	90131-0776	90131-0936	40.64 (1.600)	38.10 (1.500)
34	90131-0137	90131-0777	90131-0937	43.18 (1.700)	40.64 (1.600)
36	90131-0138	90131-0778	90131-0938	45.72 (1.800)	43.18 (1.700)
38	90131-0139	90131-0779	90131-0939	48.76 (1.900)	45.72 (1.800)
40	90131-0140	90131-0780	90131-0940	50.80 (2.000)	48.76 (1.900)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
42	90131-0141	90131-0781	90131-0941	53.34 (2.100)	50.80 (2.000)
44	90131-0142	90131-0782	90131-0942	55.88 (2.200)	53.34 (2.100)
46	90131-0143	90131-0783	90131-0943	58.42 (2.300)	55.88 (2.200)
48	90131-0144	90131-0784	90131-0944	60.46 (2.400)	58.42 (2.300)
50	90131-0145	90131-0785	90131-0945	63.50 (2.500)	60.46 (2.400)
52	90131-0146	90131-0786	90131-0946	66.04 (2.600)	63.50 (2.500)
54	90131-0147	90131-0787	90131-0947	68.58 (2.700)	66.04 (2.600)
56	90131-0148	90131-0788	90131-0948	71.12 (2.800)	68.58 (2.700)
58	90131-0149	90131-0789	90131-0949	73.66 (2.900)	71.12 (2.800)
60	90131-0150	90131-0790	90131-0950	76.20 (3.000)	73.66 (2.900)
62	90131-0151	90131-0791	90131-0951	78.24 (3.100)	76.20 (3.000)
64	90131-0152	90131-0792	90131-0952	81.28 (3.200)	78.24 (3.100)
66	90131-0153	90131-0793	90131-0953	83.82 (3.300)	81.28 (3.200)
68	90131-0154	90131-0794	90131-0954	86.36 (3.400)	83.82 (3.300)
70	90131-0155	90131-0795	90131-0955	88.90 (3.500)	86.36 (3.400)
72	90131-0156	90131-0796	90131-0956	91.44 (3.600)	88.90 (3.500)
74	90131-0157	90131-0797	90131-0957	93.98 (3.700)	91.44 (3.600)
76	90131-0158	90131-0798	90131-0958	96.52 (3.800)	93.98 (3.700)
78	90131-0159	90131-0799	90131-0959	99.06 (3.900)	96.52 (3.800)
80	• 90131-0160	• 90131-0800	• 90131-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

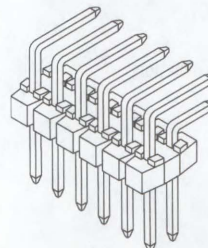
Operating Temperature: -55 to +125°C



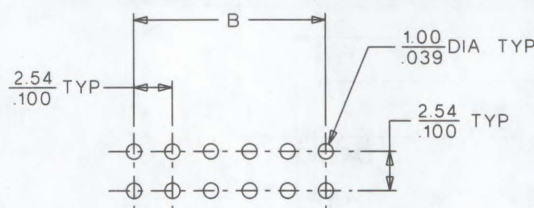
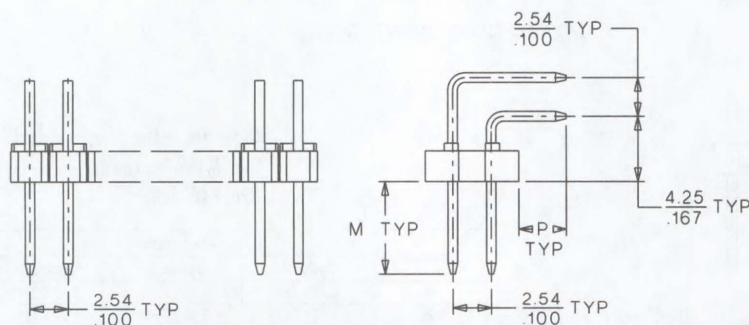
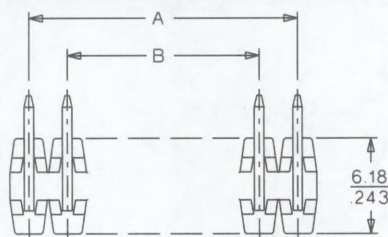
2.54mm (.100") Pitch C-Grid III™ Header

90122

Dual Row Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

Not For Use With Molex SL™ Components

Dimension	Plating A	Plating E	Plating F
M	6.75 (.266)	5.75 (.226)	5.75 (.226)
P	4.50 (.177)	2.90 (.114)	4.50 (.177)

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
4	90122-0122	90122-0762	90122-0922	5.08 (.200)	2.54 (.100)
6	90122-0123	90122-0763	90122-0923	7.62 (.300)	5.08 (.200)
8	90122-0124	90122-0764	90122-0924	10.16 (.400)	7.62 (.300)
10	90122-0125	90122-0765	90122-0925	12.70 (.500)	10.16 (.400)
12	90122-0126	90122-0766	90122-0926	15.24 (.600)	12.70 (.500)
14	90122-0127	90122-0767	90122-0927	17.78 (.700)	15.24 (.600)
16	90122-0128	90122-0768	90122-0928	20.32 (.800)	17.78 (.700)
18	90122-0129	90122-0769	90122-0929	22.86 (.900)	20.32 (.800)
20	90122-0130	90122-0770	90122-0930	25.40 (1.000)	22.86 (.900)
22	90122-0131	90122-0771	90122-0931	27.94 (1.100)	25.40 (1.000)
24	90122-0132	90122-0772	90122-0932	30.48 (1.200)	27.94 (1.100)
26	90122-0133	90122-0773	90122-0933	33.02 (1.300)	30.48 (1.200)
28	90122-0134	90122-0774	90122-0934	35.56 (1.400)	33.02 (1.300)
30	90122-0135	90122-0775	90122-0935	38.10 (1.500)	35.56 (1.400)
32	90122-0136	90122-0776	90122-0936	40.64 (1.600)	38.10 (1.500)
34	90122-0137	90122-0777	90122-0937	43.18 (1.700)	40.64 (1.600)
36	90122-0138	90122-0778	90122-0938	45.72 (1.800)	43.18 (1.700)
38	90122-0139	90122-0779	90122-0939	48.76 (1.900)	45.72 (1.800)
40	90122-0140	90122-0780	90122-0940	50.80 (2.000)	48.76 (1.900)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
42	90122-0141	90122-0781	90122-0941	53.34 (2.100)	50.80 (2.000)
44	90122-0142	90122-0782	90122-0942	55.88 (2.200)	53.34 (2.100)
46	90122-0143	90122-0783	90122-0943	58.42 (2.300)	55.88 (2.200)
48	90122-0144	90122-0784	90122-0944	60.46 (2.400)	58.42 (2.300)
50	90122-0145	90122-0785	90122-0945	63.50 (2.500)	60.46 (2.400)
52	90122-0146	90122-0786	90122-0946	66.04 (2.600)	63.50 (2.500)
54	90122-0147	90122-0787	90122-0947	68.58 (2.700)	66.04 (2.600)
56	90122-0148	90122-0788	90122-0948	71.12 (2.800)	68.58 (2.700)
58	90122-0149	90122-0789	90122-0949	73.66 (2.900)	71.12 (2.800)
60	90122-0150	90122-0790	90122-0950	76.20 (3.000)	73.66 (2.900)
62	90122-0151	90122-0791	90122-0951	78.24 (3.100)	76.20 (3.000)
64	90122-0152	90122-0792	90122-0952	81.28 (3.200)	78.24 (3.100)
66	90122-0153	90122-0793	90122-0953	83.82 (3.300)	81.28 (3.200)
68	90122-0154	90122-0794	90122-0954	86.36 (3.400)	83.82 (3.300)
70	90122-0155	90122-0795	90122-0955	88.90 (3.500)	86.36 (3.400)
72	90122-0156	90122-0796	90122-0956	91.44 (3.600)	88.90 (3.500)
74	90122-0157	90122-0797	90122-0957	93.98 (3.700)	91.44 (3.600)
76	90122-0158	90122-0798	90122-0958	96.52 (3.800)	93.98 (3.700)
78	90122-0159	90122-0799	90122-0959	99.06 (3.900)	96.52 (3.800)
80	• 90122-0160	• 90122-0800	• 90122-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 3 to 40 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

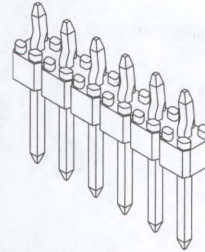
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Kinked Pin Header

90627

Single Row Vertical

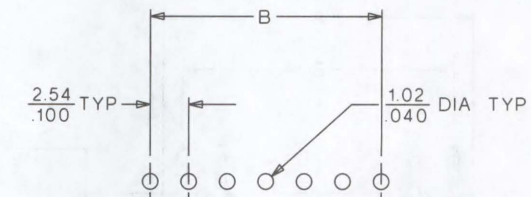
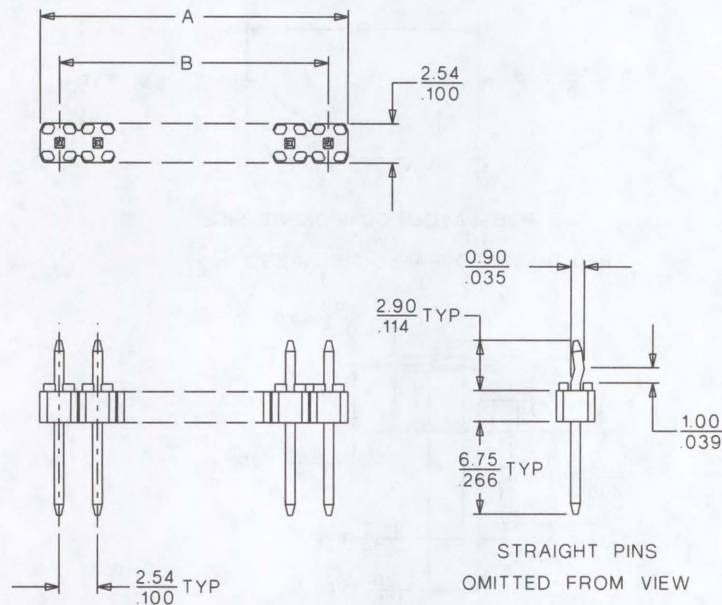


C

2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: $\frac{1.55}{.061}$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
3	90627-0123	90627-0763	90627-0923	7.62 (.300)	5.08 (.200)
4	90627-0124	90627-0764	90627-0924	10.16 (.400)	7.62 (.300)
5	90627-0125	90627-0765	90627-0925	12.70 (.500)	10.16 (.400)
6	90627-0126	90627-0766	90627-0926	15.24 (.600)	12.70 (.500)
7	90627-0127	90627-0767	90627-0927	17.78 (.700)	15.24 (.600)
8	90627-0128	90627-0768	90627-0928	20.32 (.800)	17.78 (.700)
9	90627-0129	90627-0769	90627-0929	22.86 (.900)	20.32 (.800)
10	90627-0130	90627-0770	90627-0930	25.40 (1.000)	22.86 (.900)
11	90627-0131	90627-0771	90627-0931	27.94 (1.100)	25.40 (1.000)
12	90627-0132	90627-0772	90627-0932	30.48 (1.200)	27.94 (1.100)
13	90627-0133	90627-0773	90627-0933	33.02 (1.300)	30.48 (1.200)
14	90627-0134	90627-0774	90627-0934	35.56 (1.400)	33.02 (1.300)
15	90627-0135	90627-0775	90627-0935	38.10 (1.500)	35.56 (1.400)
16	90627-0136	90627-0776	90627-0936	40.64 (1.600)	38.10 (1.500)
17	90627-0137	90627-0777	90627-0937	43.18 (1.700)	40.64 (1.600)
18	90627-0138	90627-0778	90627-0938	45.72 (1.800)	43.18 (1.700)
19	90627-0139	90627-0779	90627-0939	48.26 (1.900)	45.72 (1.800)
20	90627-0140	90627-0780	90627-0940	50.80 (2.000)	48.26 (1.900)
21	90627-0141	90627-0781	90627-0941	53.34 (2.100)	50.80 (2.000)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
22	90627-0142	90627-0782	90627-0942	55.88 (2.200)	53.34 (2.100)
23	90627-0143	90627-0783	90627-0943	58.42 (2.300)	55.88 (2.200)
24	90627-0144	90627-0784	90627-0944	60.46 (2.400)	58.42 (2.300)
25	90627-0145	90627-0785	90627-0945	63.50 (2.500)	60.46 (2.400)
26	90627-0146	90627-0786	90627-0946	66.04 (2.600)	63.50 (2.500)
27	90627-0147	90627-0787	90627-0947	68.58 (2.700)	66.04 (2.600)
28	90627-0148	90627-0788	90627-0948	71.12 (2.800)	68.58 (2.700)
29	90627-0149	90627-0789	90627-0949	73.66 (2.900)	71.12 (2.800)
30	90627-0150	90627-0790	90627-0950	76.20 (3.000)	73.66 (2.900)
31	90627-0151	90627-0791	90627-0951	78.24 (3.100)	76.20 (3.000)
32	90627-0152	90627-0792	90627-0952	81.28 (3.200)	78.24 (3.100)
33	90627-0153	90627-0793	90627-0953	83.82 (3.300)	81.28 (3.200)
34	90627-0154	90627-0794	90627-0954	86.36 (3.400)	83.82 (3.300)
35	90627-0155	90627-0795	90627-0955	88.90 (3.500)	86.36 (3.400)
36	90627-0156	90627-0796	90627-0956	91.44 (3.600)	88.90 (3.500)
37	90627-0157	90627-0797	90627-0957	93.98 (3.700)	91.44 (3.600)
38	90627-0158	90627-0798	90627-0958	96.52 (3.800)	93.98 (3.700)
39	90627-0159	90627-0799	90627-0959	99.06 (3.900)	96.52 (3.800)
40	• 90627-0160	• 90627-0800	• 90627-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 40 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

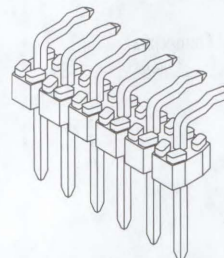
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Kinked Pin Header

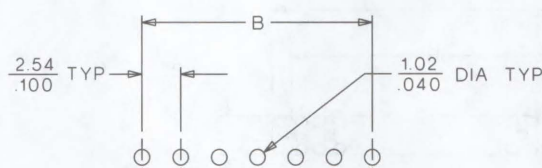
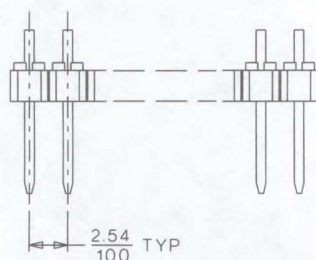
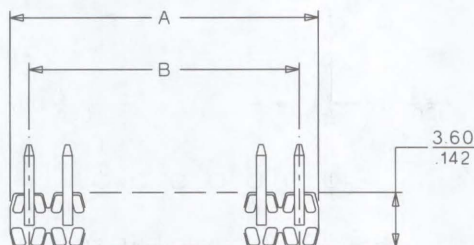
90629

Single Row Right Angle



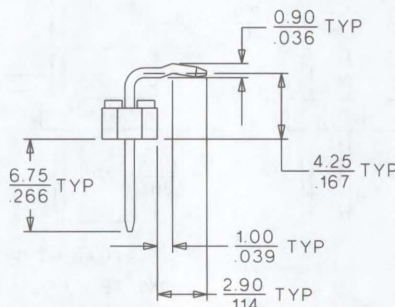
CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PANEL THICKNESS: 1.55 (.061)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
2	90629-0122	90629-0762	90629-0922	5.08 (.200)	2.54 (.100)
3	90629-0123	90629-0763	90629-0923	7.62 (.300)	5.08 (.200)
4	90629-0124	90629-0764	90629-0924	10.16 (.400)	7.62 (.300)
5	90629-0125	90629-0765	90629-0925	12.70 (.500)	10.16 (.400)
6	90629-0126	90629-0766	90629-0926	15.24 (.600)	12.70 (.500)
7	90629-0127	90629-0767	90629-0927	17.78 (.700)	15.24 (.600)
8	90629-0128	90629-0768	90629-0928	20.32 (.800)	17.78 (.700)
9	90629-0129	90629-0769	90629-0929	22.86 (.900)	20.32 (.800)
10	90629-0130	90629-0770	90629-0930	25.40 (1.000)	22.86 (.900)
11	90629-0131	90629-0771	90629-0931	27.94 (1.100)	25.40 (1.000)
12	90629-0132	90629-0772	90629-0932	30.48 (1.200)	27.94 (1.100)
13	90629-0133	90629-0773	90629-0933	33.02 (1.300)	30.48 (1.200)
14	90629-0134	90629-0774	90629-0934	35.56 (1.400)	33.02 (1.300)
15	90629-0135	90629-0775	90629-0935	38.10 (1.500)	35.56 (1.400)
16	90629-0136	90629-0776	90629-0936	40.64 (1.600)	38.10 (1.500)
17	90629-0137	90629-0777	90629-0937	43.18 (1.700)	40.64 (1.600)
18	90629-0138	90629-0778	90629-0938	45.72 (1.800)	43.18 (1.700)
19	90629-0139	90629-0779	90629-0939	48.76 (1.900)	45.72 (1.800)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
20	90629-0140	90629-0780	90629-0940	50.80 (2.000)	48.76 (1.900)
21	90629-0141	90629-0781	90629-0941	53.34 (2.100)	50.80 (2.000)
22	90629-0142	90629-0782	90629-0942	55.88 (2.200)	53.34 (2.100)
23	90629-0143	90629-0783	90629-0943	58.42 (2.300)	55.88 (2.200)
24	90629-0144	90629-0784	90629-0944	60.46 (2.400)	58.42 (2.300)
25	90629-0145	90629-0785	90629-0945	63.50 (2.500)	60.46 (2.400)
26	90629-0146	90629-0786	90629-0946	66.04 (2.600)	63.50 (2.500)
27	90629-0147	90629-0787	90629-0947	68.58 (2.700)	66.04 (2.600)
28	90629-0148	90629-0788	90629-0948	71.12 (2.800)	68.58 (2.700)
29	90629-0149	90629-0789	90629-0949	73.66 (2.900)	71.12 (2.800)
30	90629-0150	90629-0790	90629-0950	76.20 (3.000)	73.66 (2.900)
31	90629-0151	90629-0791	90629-0951	78.74 (3.100)	76.20 (3.000)
32	90629-0152	90629-0792	90629-0952	81.28 (3.200)	78.74 (3.100)
33	90629-0153	90629-0793	90629-0953	83.82 (3.300)	81.28 (3.200)
34	90629-0154	90629-0794	90629-0954	86.36 (3.400)	83.82 (3.300)
35	90629-0155	90629-0795	90629-0955	88.90 (3.500)	86.36 (3.400)
36	90629-0156	90629-0796	90629-0956	91.44 (3.600)	88.90 (3.500)
37	90629-0157	90629-0797	90629-0957	93.98 (3.700)	91.44 (3.600)
38	90629-0158	90629-0798	90629-0958	96.52 (3.800)	93.98 (3.700)
39	90629-0159	90629-0799	90629-0959	99.06 (3.900)	96.52 (3.800)
40	• 90629-0160	• 90629-0800	• 90629-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention and high mechanical stability after soldering
- Stackable side-to-side

Reference Information

Product Specification: PS-99020-0001

Packaging: Bag

Mates With: C-Grid III Housing and Connectors

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

Operating Temperature: -55 to +125°C



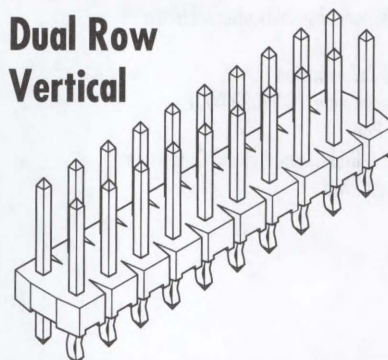
2.54mm (.100") Pitch

C-Grid III™

Kinked Pin Header

90628

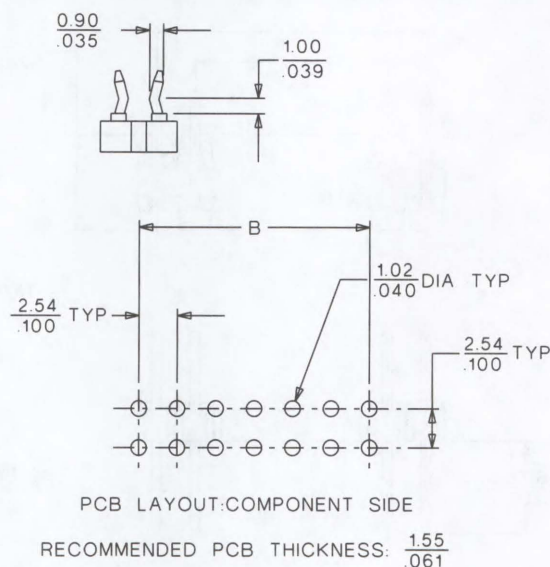
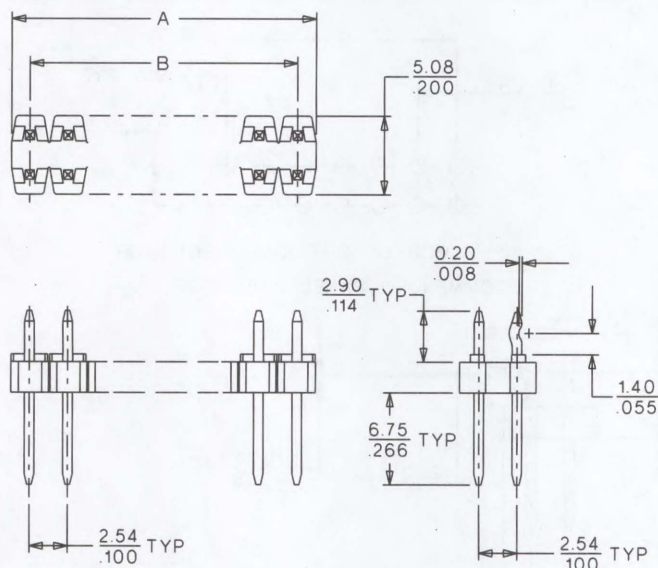
Dual Row
Vertical



2.54mm (.100") Pitch

Not For Use With Molex SI™ Components

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
4	90628-0122	90628-0762	90628-0922	5.08 (.200)	2.54 (.100)
6	90628-0123	90628-0763	90628-0923	7.62 (.300)	5.08 (.200)
8	90628-0124	90628-0764	90628-0924	10.16 (.400)	7.62 (.300)
10	90628-0125	90628-0765	90628-0925	12.70 (.500)	10.16 (.400)
12	90628-0126	90628-0766	90628-0926	15.24 (.600)	12.70 (.500)
14	90628-0127	90628-0767	90628-0927	17.78 (.700)	15.24 (.600)
16	90628-0128	90628-0768	90628-0928	20.32 (.800)	17.78 (.700)
18	90628-0129	90628-0769	90628-0929	22.86 (.900)	20.32 (.800)
20	90628-0130	90628-0770	90628-0930	25.40 (1.000)	22.86 (.900)
22	90628-0131	90628-0771	90628-0931	27.94 (1.100)	25.40 (1.000)
24	90628-0132	90628-0772	90628-0932	30.48 (1.200)	27.94 (1.100)
26	90628-0133	90628-0773	90628-0933	33.02 (1.300)	30.48 (1.200)
28	90628-0134	90628-0774	90628-0934	35.56 (1.400)	33.02 (1.300)
30	90628-0135	90628-0775	90628-0935	38.10 (1.500)	35.56 (1.400)
32	90628-0136	90628-0776	90628-0936	40.64 (1.600)	38.10 (1.500)
34	90628-0137	90628-0777	90628-0937	43.18 (1.700)	40.64 (1.600)
36	90628-0138	90628-0778	90628-0938	45.72 (1.800)	43.18 (1.700)
38	90628-0139	90628-0779	90628-0939	48.26 (1.900)	45.72 (1.800)
40	90628-0140	90628-0780	90628-0940	50.80 (2.000)	48.26 (1.900)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
42	90628-0141	90628-0781	90628-0941	53.34 (2.100)	50.80 (2.000)
44	90628-0142	90628-0782	90628-0942	55.88 (2.200)	53.34 (2.100)
46	90628-0143	90628-0783	90628-0943	58.42 (2.300)	55.88 (2.200)
48	90628-0144	90628-0784	90628-0944	60.96 (2.400)	58.42 (2.300)
50	90628-0145	90628-0785	90628-0945	63.50 (2.500)	60.96 (2.400)
52	90628-0146	90628-0786	90628-0946	66.04 (2.600)	63.50 (2.500)
54	90628-0147	90628-0787	90628-0947	68.58 (2.700)	66.04 (2.600)
56	90628-0148	90628-0788	90628-0948	71.12 (2.800)	68.58 (2.700)
58	90628-0149	90628-0789	90628-0949	73.66 (2.900)	71.12 (2.800)
60	90628-0150	90628-0790	90628-0950	76.20 (3.000)	73.66 (2.900)
62	90628-0151	90628-0791	90628-0951	78.74 (3.100)	76.20 (3.000)
64	90628-0152	90628-0792	90628-0952	81.28 (3.200)	78.74 (3.100)
66	90628-0153	90628-0793	90628-0953	83.82 (3.300)	81.28 (3.200)
68	90628-0154	90628-0794	90628-0954	86.36 (3.400)	83.82 (3.300)
70	90628-0155	90628-0795	90628-0955	88.90 (3.500)	86.36 (3.400)
72	90628-0156	90628-0796	90628-0956	91.44 (3.600)	88.90 (3.500)
74	90628-0157	90628-0797	90628-0957	93.98 (3.700)	91.44 (3.600)
76	90628-0158	90628-0798	90628-0958	96.52 (3.800)	93.98 (3.700)
78	90628-0159	90628-0799	90628-0959	99.06 (3.900)	96.52 (3.800)
80	90628-0160	90628-0800	90628-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 4 to 80 circuits
- Easy breakaway to smaller sizes
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- High mechanical stability after soldering

Reference Information

Product Specification: PS-99020-0001
Packaging: Bag
Mates With: C-Grid III Housing and Connectors
Designed In: Inches

Electrical

Voltage: 350V
Current: 3.0A
Contact Resistance: 20mΩ max.
Insulation Resistance: 5000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.
Mating Force: 1N max. Gold and 3N max. Tin
Unmating Force: 0.2N min. Gold and 0.2N min. Tin
Normal Force: 1N

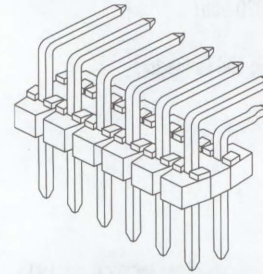
Physical

Housing: Black glass-filled polyester, UL 94V-0
Contact: Copper Alloy, 0.64mm (.025") square pins
Plating: See Table
Operating Temperature: -55 to +125°C

molex® 2.54mm (.100") Pitch C-Grid III™ Kinked Pin Header

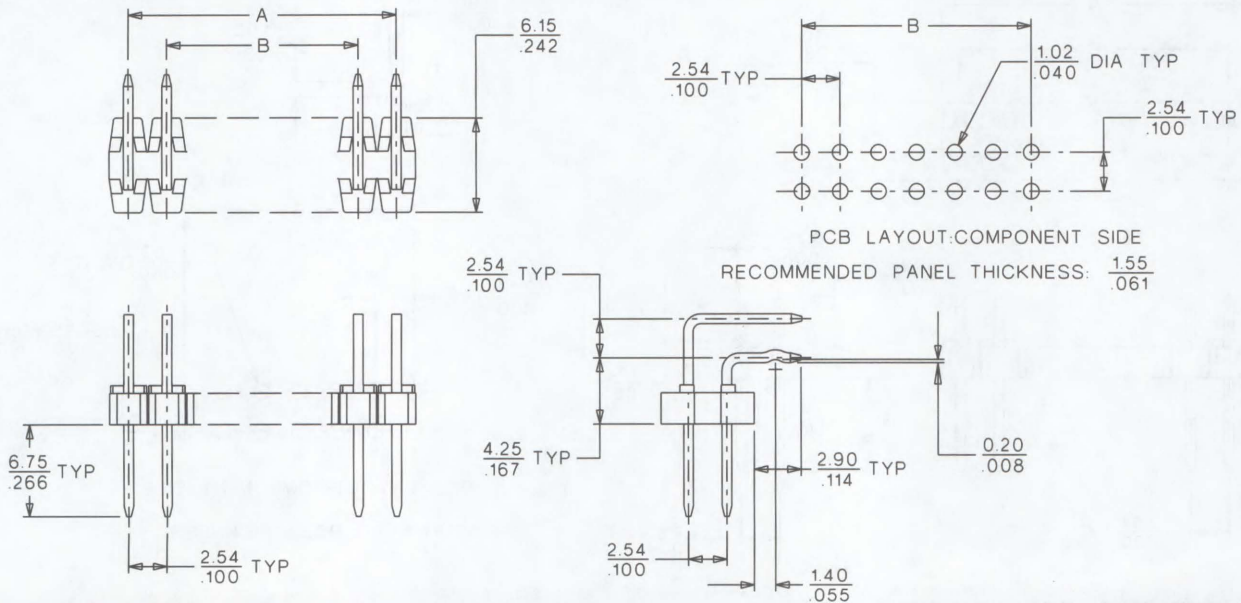
90630

Dual Row Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
4	90630-0122	90630-0762	90630-0922	5.08 (.200)	2.54 (.100)
6	90630-0123	90630-0763	90630-0923	7.62 (.300)	5.08 (.200)
8	90630-0124	90630-0764	90630-0924	10.16 (.400)	7.62 (.300)
10	90630-0125	90630-0765	90630-0925	12.70 (.500)	10.16 (.400)
12	90630-0126	90630-0766	90630-0926	15.24 (.600)	12.70 (.500)
14	90630-0127	90630-0767	90630-0927	17.78 (.700)	15.24 (.600)
16	90630-0128	90630-0768	90630-0928	20.32 (.800)	17.78 (.700)
18	90630-0129	90630-0769	90630-0929	22.86 (.900)	20.32 (.800)
20	90630-0130	90630-0770	90630-0930	25.40 (1.000)	22.86 (.900)
22	90630-0131	90630-0771	90630-0931	27.94 (1.100)	25.40 (1.000)
24	90630-0132	90630-0772	90630-0932	30.48 (1.200)	27.94 (1.100)
26	90630-0133	90630-0773	90630-0933	33.02 (1.300)	30.48 (1.200)
28	90630-0134	90630-0774	90630-0934	35.56 (1.400)	33.02 (1.300)
30	90630-0135	90630-0775	90630-0935	38.10 (1.500)	35.56 (1.400)
32	90630-0136	90630-0776	90630-0936	40.64 (1.600)	38.10 (1.500)
34	90630-0137	90630-0777	90630-0937	43.18 (1.700)	40.64 (1.600)
36	90630-0138	90630-0778	90630-0938	45.72 (1.800)	43.18 (1.700)

Circuits	Order No.			Dimension	
	Plating A	Plating E	Plating F	A	B
38	90630-0139	90630-0779	90630-0939	48.76 (1.900)	45.72 (1.800)
40	90630-0140	90630-0780	90630-0940	50.80 (2.000)	48.76 (1.900)
42	90630-0141	90630-0781	90630-0941	53.34 (2.100)	50.80 (2.000)
44	90630-0142	90630-0782	90630-0942	55.88 (2.200)	53.34 (2.100)
46	90630-0143	90630-0783	90630-0943	58.42 (2.300)	55.88 (2.200)
48	90630-0144	90630-0784	90630-0944	60.46 (2.400)	58.42 (2.300)
50	90630-0145	90630-0785	90630-0945	63.50 (2.500)	60.46 (2.400)
52	90630-0146	90630-0786	90630-0946	66.04 (2.600)	63.50 (2.500)
54	90630-0147	90630-0787	90630-0947	68.58 (2.700)	66.04 (2.600)
56	90630-0148	90630-0788	90630-0948	71.12 (2.800)	68.58 (2.700)
58	90630-0149	90630-0789	90630-0949	73.66 (2.900)	71.12 (2.800)
60	90630-0150	90630-0790	90630-0950	76.20 (3.000)	73.66 (2.900)
62	90630-0151	90630-0791	90630-0951	78.24 (3.100)	76.20 (3.000)
64	90630-0152	90630-0792	90630-0952	81.28 (3.200)	78.24 (3.100)
66	90630-0153	90630-0793	90630-0953	83.82 (3.300)	81.28 (3.200)
68	90630-0154	90630-0794	90630-0954	86.36 (3.400)	83.82 (3.300)
70	90630-0155	90630-0795	90630-0955	88.90 (3.500)	86.36 (3.400)
72	90630-0156	90630-0796	90630-0956	91.44 (3.600)	88.90 (3.500)
74	90630-0157	90630-0797	90630-0957	93.98 (3.700)	91.44 (3.600)
76	90630-0158	90630-0798	90630-0958	96.52 (3.800)	93.98 (3.700)
78	90630-0159	90630-0799	90630-0959	99.06 (3.900)	96.52 (3.800)
80	• 90630-0160	• 90630-0800	• 90630-0960	101.60 (4.000)	99.06 (3.900)

• Molex European standard product, usually available within shorter lead times

For other available versions contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001
Packaging: Tray
Mates With: 90123 and 90156
Designed In: Inches

Electrical

Voltage: 350V
Current: 3.0A
Contact Resistance: 20mΩ max.
Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Resistance: 20N (2.0kgf) min.
Mating Force: 1N max. Gold and 3N max. Tin
Unmating Force: 0.2N min. Gold and 0.2N min. Tin
Normal Force: 1N

Physical

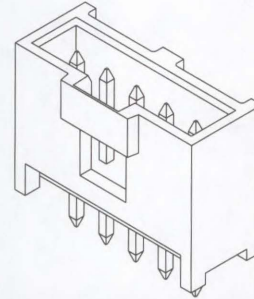
Housing: Black glass-filled polyester, UL 94V-0
Contact: Copper Alloy, 0.64mm (.025") square pins
Plating: See Table
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Shrouded Header

90136

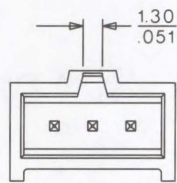
Single Row Vertical



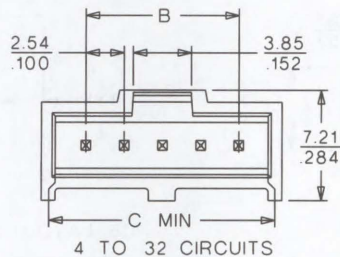
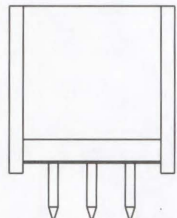
2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

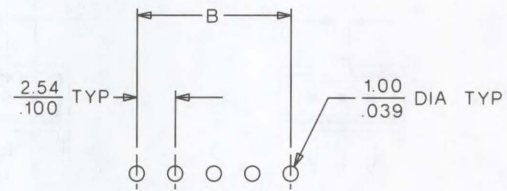
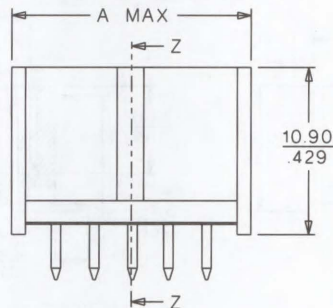
Not For Use With Molex SL™ Components



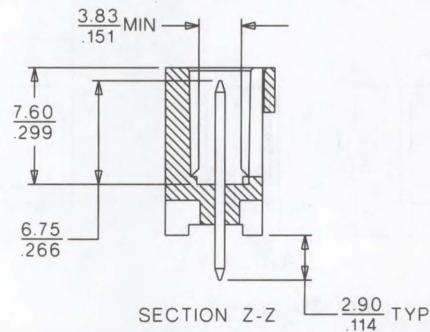
1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



PCB LAYOUT: COMPONENT SIDE



SECTION Z-Z

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
2	90136-1102	90136-1202	90136-1302	8.81 (.347)	2.54 (.100)	6.40 (.252)
3	90136-1103	90136-1203	90136-1303	11.35 (.447)	5.08 (.200)	8.94 (.352)
4	90136-1104	90136-1204	90136-1304	13.89 (.547)	7.62 (.300)	11.48 (.452)
5	90136-1105	90136-1205	90136-1305	16.43 (.647)	10.16 (.400)	14.02 (.552)
6	90136-1106	90136-1206	90136-1306	18.97 (.747)	12.70 (.500)	16.56 (.652)
7	90136-1107	90136-1207	90136-1307	21.51 (.847)	15.24 (.600)	19.10 (.752)
8	90136-1108	90136-1208	90136-1308	24.05 (.947)	17.78 (.700)	21.64 (.852)
9	90136-1109	90136-1209	90136-1309	26.59 (1.047)	20.32 (.800)	24.18 (.952)
10	90136-1110	90136-1210	90136-1310	29.13 (1.147)	22.86 (.900)	26.72 (1.052)
12	90136-1112	90136-1212	90136-1312	34.21 (1.347)	27.94 (1.100)	31.80 (1.252)
15	90136-1115	90136-1215	90136-1315	41.83 (1.647)	35.56 (1.400)	39.42 (1.552)
18	90136-1118	90136-1218	90136-1318	49.45 (1.947)	43.18 (1.700)	47.04 (1.852)
22	90136-1122	90136-1222	90136-1322	59.61 (2.347)	53.34 (2.100)	57.20 (2.252)
25	90136-1125	90136-1225	90136-1325	67.23 (2.647)	60.96 (2.400)	64.82 (2.552)
30	90136-1130	90136-1230	90136-1330	79.93 (3.147)	73.66 (2.900)	77.52 (3.052)
32	90136-1132	90136-1232	90136-1332	85.01 (3.347)	78.74 (3.100)	82.60 (3.252)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 32 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention, polarized and friction lock
- 1 through 6 circuits with endwall stabilization features

Reference Information

Product Specification: PS-99020-0001

Packaging: Tray

Mates With: 90123 and 90156

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

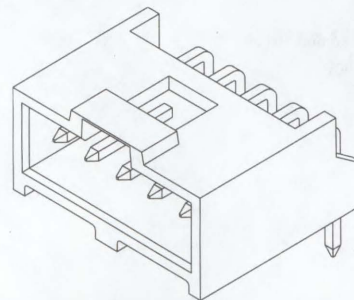
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Shrouded Header

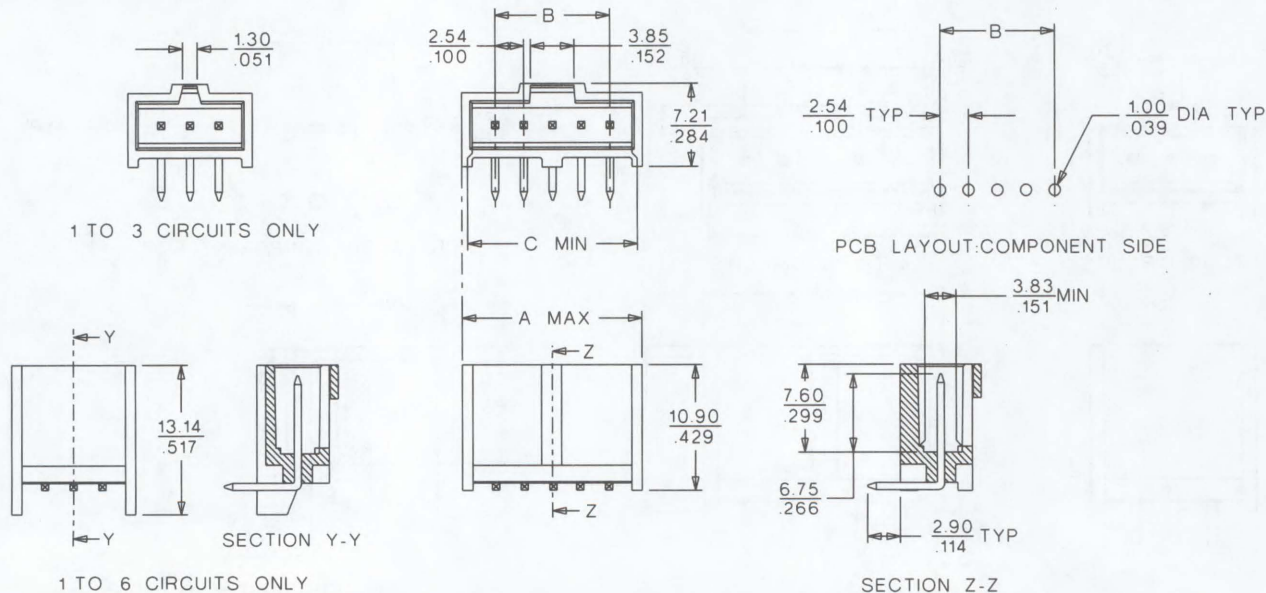
90136

Single Row Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
2	90136-2102	90136-2202	90136-2302	8.81 (.347)	2.54 (.100)	6.40 (.252)
3	90136-2103	90136-2203	90136-2303	11.35 (.447)	5.08 (.200)	8.94 (.352)
4	90136-2104	90136-2204	90136-2304	13.89 (.547)	7.62 (.300)	11.48 (.452)
5	90136-2105	90136-2205	90136-2305	16.43 (.647)	10.16 (.400)	14.02 (.552)
6	90136-2106	90136-2206	90136-2306	18.97 (.747)	12.70 (.500)	16.56 (.652)
7	90136-2107	90136-2207	90136-2307	21.51 (.847)	15.24 (.600)	19.10 (.752)
8	90136-2108	90136-2208	90136-2308	24.05 (.947)	17.78 (.700)	21.64 (.852)
9	90136-2109	90136-2209	90136-2309	26.59 (1.047)	20.32 (.800)	24.18 (.952)
10	90136-2110	90136-2210	90136-2310	29.13 (1.147)	22.86 (.900)	26.72 (1.052)
12	90136-2112	90136-2212	90136-2312	34.21 (1.347)	27.94 (1.100)	31.80 (1.252)
15	90136-2115	90136-2215	90136-2315	41.83 (1.647)	35.56 (1.400)	39.42 (1.552)
18	90136-2118	90136-2218	90136-2318	49.45 (1.947)	43.18 (1.700)	47.04 (1.852)
22	90136-2122	90136-2222	90136-2322	59.61 (2.347)	53.34 (2.100)	57.20 (2.252)
25	90136-2125	90136-2225	90136-2325	67.23 (2.647)	60.96 (2.400)	64.82 (2.552)
30	90136-2130	90136-2230	90136-2330	79.93 (3.147)	73.66 (2.900)	77.52 (3.052)
32	90136-2132	90136-2232	90136-2332	85.01 (3.347)	78.74 (3.100)	82.60 (3.252)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 64 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001

Packaging: Tray

Mates With: 90142

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

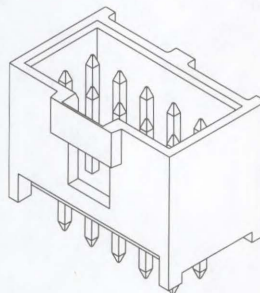
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Shrouded Header

90130

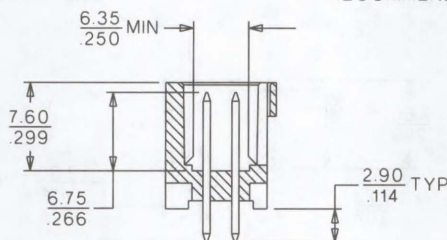
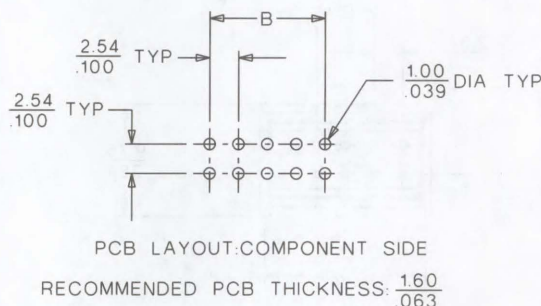
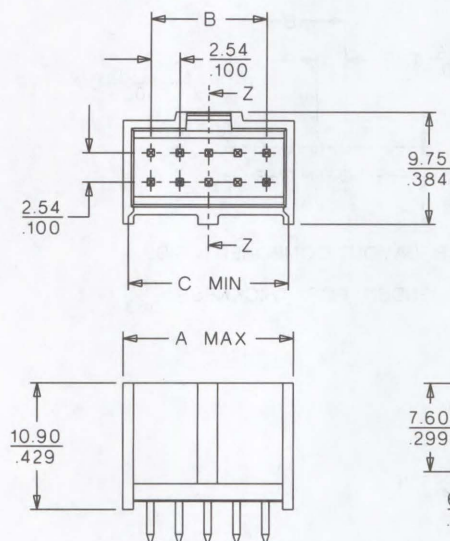
**Dual Row, Vertical
Fully Loaded**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



SECTION Z-Z

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
6	90130-1106	90130-1206	90130-1306	10.34 (.407)	5.08 (.200)	7.92 (.312)
8	90130-1108	90130-1208	90130-1308	12.88 (.507)	7.62 (.300)	10.46 (.412)
10	90130-1110	90130-1210	90130-1310	15.42 (.607)	10.16 (.400)	13.00 (.512)
12	90130-1112	90130-1212	90130-1312	17.96 (.707)	12.70 (.500)	15.54 (.612)
14	90130-1114	90130-1214	90130-1314	20.50 (.807)	15.24 (.600)	18.08 (.712)
16	90130-1116	90130-1216	90130-1316	23.04 (.907)	17.78 (.700)	20.62 (.812)
18	90130-1118	90130-1218	90130-1318	25.58 (1.007)	20.32 (.800)	23.16 (.912)
20	90130-1120	90130-1220	90130-1320	28.12 (1.107)	22.86 (.900)	25.70 (1.012)
24	90130-1124	90130-1224	90130-1324	33.20 (1.307)	27.94 (1.100)	30.78 (1.212)

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
26	90130-1126	90130-1226	90130-1326	35.74 (1.407)	30.48 (1.200)	33.32 (1.312)
30	90130-1130	90130-1230	90130-1330	40.82 (1.607)	35.56 (1.400)	38.40 (1.512)
34	90130-1134	90130-1234	90130-1334	45.90 (1.807)	40.64 (1.600)	43.48 (1.712)
38	90130-1138	90130-1238	90130-1338	50.98 (2.007)	45.72 (1.800)	48.56 (1.912)
40	90130-1140	90130-1240	90130-1340	53.52 (2.107)	48.26 (1.900)	51.10 (2.012)
50	90130-1150	90130-1250	90130-1350	66.22 (2.607)	60.96 (2.400)	63.80 (2.512)
60	90130-1160	90130-1260	90130-1360	78.92 (3.107)	73.66 (2.900)	76.50 (3.012)
64	90130-1164	90130-1264	90130-1364	84.00 (3.307)	78.74 (3.100)	81.58 (3.212)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 40 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001

Packaging: Tray

Mates With: 90143 and 90160

Designed In: Inches

Electrical

Voltage: 350V

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

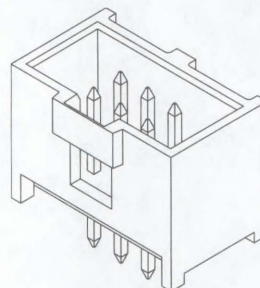
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Shrouded Header

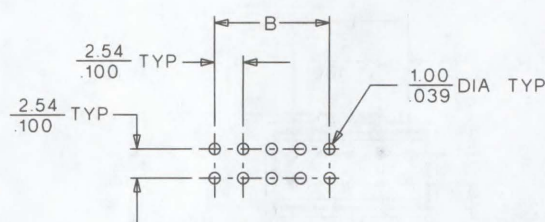
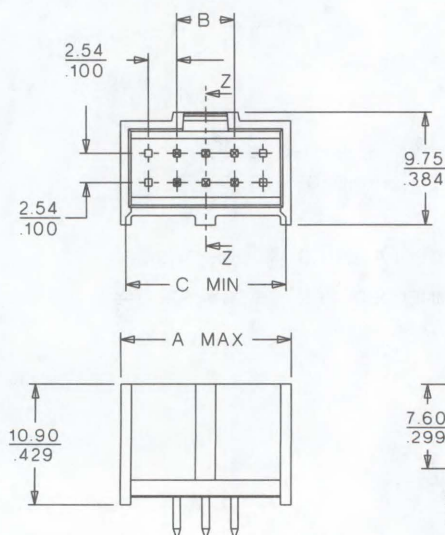
90130

Dual Row, Vertical Voided Pins



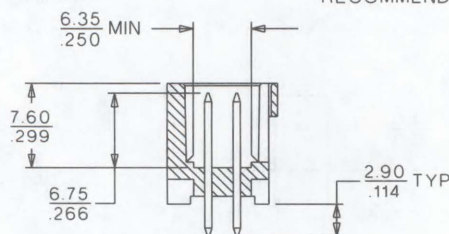
CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.60}{.063}$



SECTION Z-Z

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
8	90130-2112	90130-2212	90130-2312	17.96 (.707)	7.62 (.300)	15.54 (.612)
10	90130-2114	90130-2214	90130-2314	20.50 (.807)	10.16 (.400)	18.08 (.712)
12	90130-2116	90130-2216	90130-2316	23.04 (.907)	12.70 (.500)	20.62 (.812)
14	90130-2118	90130-2218	90130-2318	25.58 (1.007)	15.24 (.600)	23.16 (.912)
16	90130-2120	90130-2220	90130-2320	28.12 (1.107)	17.78 (.700)	25.70 (1.012)
18	90130-2122	90130-2222	90130-2322	30.66 (1.207)	20.32 (.800)	28.24 (1.112)
20	90130-2124	90130-2224	90130-2324	33.20 (1.307)	22.86 (.900)	30.78 (1.212)
26	90130-2130	90130-2230	90130-2330	40.82 (1.607)	30.48 (1.200)	38.40 (1.512)
30	90130-2134	90130-2234	90130-2334	45.90 (1.807)	35.56 (1.400)	43.48 (1.712)
34	90130-2138	90130-2238	90130-2338	50.98 (2.007)	40.64 (1.600)	48.56 (1.912)
40	90130-2144	90130-2244	90130-2344	58.60 (2.307)	48.26 (1.900)	56.18 (2.212)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 6 to 64 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001

Packaging: Tray

Mates With: 90142

Designed In: Inches

Electrical

Voltage: 350V max.

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Nominal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

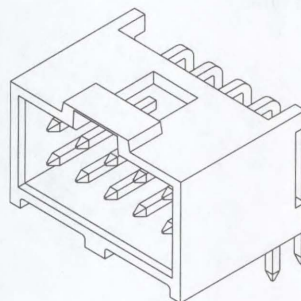
Operating Temperature: -55 to +125°C



2.54mm (.100") Pitch C-Grid III™ Shrouded Header

90130

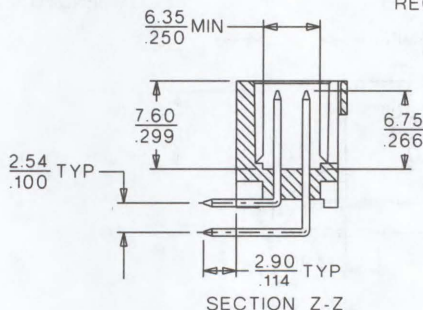
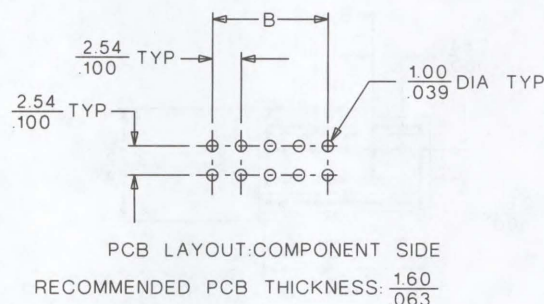
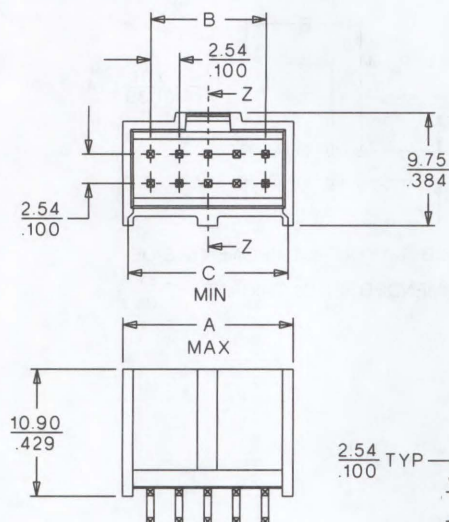
**Dual Row, Right Angle
Fully Loaded**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
6	90130-3106	90130-3206	90130-3306	10.34 (.407)	5.08 (.200)	7.92 (.312)
8	90130-3108	90130-3208	90130-3308	12.88 (.507)	7.62 (.300)	10.46 (.412)
10	90130-3110	90130-3210	90130-3310	15.42 (.607)	10.16 (.400)	13.00 (.512)
12	90130-3112	90130-3212	90130-3312	17.96 (.707)	12.70 (.500)	15.54 (.612)
14	90130-3114	90130-3214	90130-3314	20.50 (.807)	15.24 (.600)	18.08 (.712)
16	90130-3116	90130-3216	90130-3316	23.04 (.907)	17.78 (.700)	20.62 (.812)
18	90130-3118	90130-3218	90130-3318	25.58 (1.007)	20.32 (.800)	23.16 (.912)
20	90130-3120	90130-3220	90130-3320	28.12 (1.107)	22.86 (.900)	25.70 (1.012)
24	90130-3124	90130-3224	90130-3324	33.20 (1.307)	27.94 (1.100)	30.78 (1.212)

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
26	90130-3126	90130-3226	90130-3326	35.74 (1.407)	30.48 (1.200)	33.32 (1.312)
30	90130-3130	90130-3230	90130-3330	40.82 (1.607)	35.56 (1.400)	38.40 (1.512)
34	90130-3134	90130-3234	90130-3334	45.90 (1.807)	40.64 (1.600)	43.48 (1.712)
38	90130-3138	90130-3238	90130-3338	50.98 (2.007)	45.72 (1.800)	48.56 (1.912)
40	90130-3140	90130-3240	90130-3340	53.52 (2.107)	48.26 (1.900)	51.10 (2.012)
50	90130-3150	90130-3250	90130-3350	66.22 (2.607)	60.96 (2.400)	63.80 (2.512)
60	90130-3160	90130-3260	90130-3360	78.92 (3.107)	73.66 (2.900)	76.50 (3.012)
64	90130-3164	90130-3264	90130-3364	84.00 (3.307)	78.74 (3.100)	81.58 (3.212)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 8 to 64 circuits
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress
- High pin retention
- Polarized
- Friction lock

Reference Information

Product Specification: PS-99020-0001

Packaging: Tray

Mates With: 90143 and 90160

Designed In: Inches

Electrical

Voltage: 350V max.

Current: 3.0A

Contact Resistance: 20mΩ max.

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 20N (2.0kgf) min.

Mating Force: 1N max. Gold and 3N max. Tin

Unmating Force: 0.2N min. Gold and 0.2N min. Tin

Normal Force: 1N

Physical

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

Contact: Copper Alloy, 0.64mm (.025") square pins

Plating: See Table

Operating Temperature: -55 to +125°C



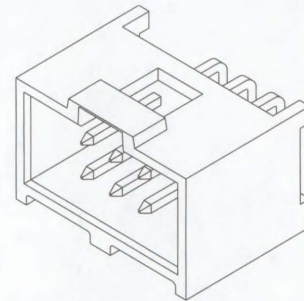
2.54mm (.100") Pitch

C-Grid III™

Shrouded Header

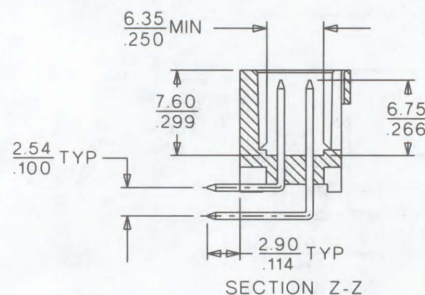
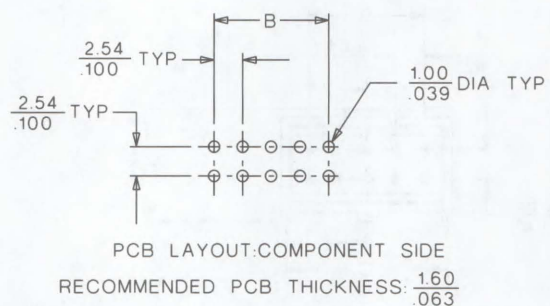
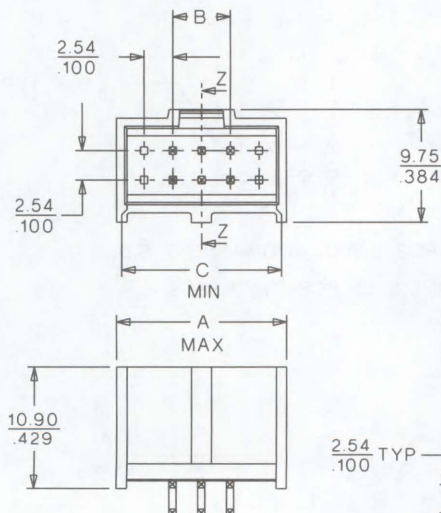
90130

Dual Row, Right Angle
Voided Pin



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
8	90130-4112	90130-4212	90130-4312	17.96 (.707)	7.62 (.300)	15.54 (.612)
10	90130-4114	90130-4214	90130-4314	20.50 (.807)	10.16 (.400)	18.08 (.712)
12	90130-4116	90130-4216	90130-4316	23.04 (.907)	12.70 (.500)	20.62 (.812)
14	90130-4118	90130-4218	90130-4318	25.58 (1.007)	15.24 (.600)	23.16 (.912)
16	90130-4120	90130-4220	90130-4320	28.12 (1.107)	17.78 (.700)	25.70 (1.012)
18	90130-4122	90130-4222	90130-4322	30.66 (1.207)	20.32 (.800)	28.24 (1.112)
20	90130-4124	90130-4224	90130-4324	33.20 (1.307)	22.86 (.900)	30.78 (1.212)

Circuits	Order No.			Dimension		
	Plating A	Plating E	Plating F	A	B	C
26	90130-4130	90130-4230	90130-4330	40.82 (1.607)	30.48 (1.200)	38.40 (1.512)
30	90130-4134	90130-4234	90130-4334	43.36 (1.707)	35.56 (1.400)	40.94 (1.612)
34	90130-4138	90130-4238	90130-4338	50.98 (2.007)	40.64 (1.600)	48.59 (1.912)
40	90130-4144	90130-4244	90130-4344	58.60 (2.307)	48.26 (1.900)	56.18 (2.212)
50	90130-4154	90130-4254	90130-4354	71.30 (2.807)	60.96 (2.400)	68.88 (2.712)
60	90130-4164	90130-4264	90130-4364	84.00 (3.307)	73.66 (2.900)	81.58 (3.212)
64	90130-4168	90130-4268	90130-4368	89.08 (3.507)	78.74 (3.100)	86.66 (3.412)

For other available circuit sizes contact Molex

Plating A: 4μm (160μ") Tin/Lead over Nickel

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 64 circuits
- Contact and plating orientation according to DIN 41651
- Stackable in 2 directions
- Meets HE 13/14 specification

Reference Information

Product Specification: PS-99020-0001
 Packaging: Tube
 Mates With: 0.64mm (.025") square pins
 Use With: 1.57mm (.062") thick PC boards
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 15N min.
 Mating Force: 1N max. Gold and 3N max. Tin
 Unmating Force: 0.2N min. Gold and 0.2N min. Tin
 Normal Force: 1N

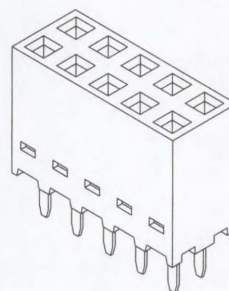
Physical

Housing: Black glass-filled polyester, UL 94V-0
 Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -55 to +125°C
 Recommended Mating Pin Length: 5.65mm (.222") min. to 7.00mm (.275") max.

molex® 2.54mm (.100") Pitch C-Grid III™ PC Board Connectors

90151

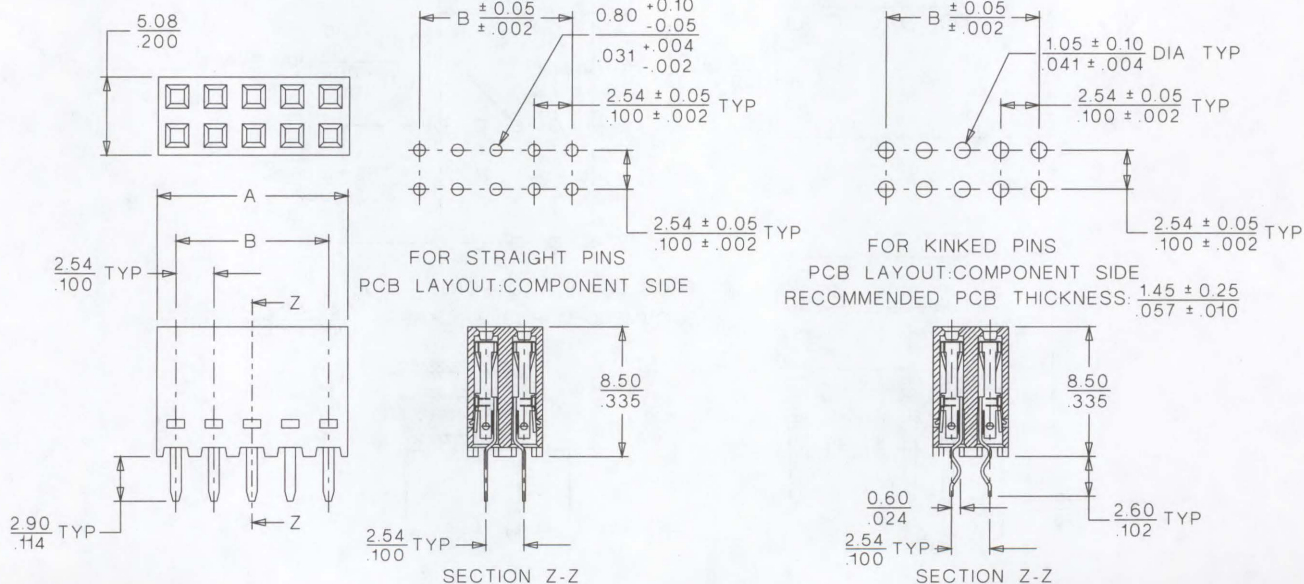
**Dual Row
Vertical**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.						Dimension	
	Straight Tail			Kinked Tail			A	B
	Plating A	Plating E	Plating F	Plating A	Plating E	Plating F		
10	90151-2110	90151-2210	90151-2310	90151-3110	90151-3210	90151-3310	12.70 (.500)	10.16 (.400)
14	90151-2114	90151-2214	90151-2314	90151-3114	90151-3214	90151-3314	17.78 (.700)	15.24 (.600)
16	90151-2116	90151-2216	90151-2316	90151-3116	90151-3216	90151-3316	20.32 (.800)	17.78 (.700)
20	90151-2120	90151-2220	90151-2320	90151-3120	90151-3220	90151-3320	25.40 (1.000)	22.86 (.900)
26	90151-2126	90151-2226	90151-2326	90151-3126	90151-3226	90151-3326	33.02 (1.300)	30.48 (1.200)
34	90151-2134	90151-2234	90151-2334	90151-3134	90151-3234	90151-3334	43.18 (1.700)	40.64 (1.600)
40	90151-2140	90151-2240	90151-2340	90151-3140	90151-3240	90151-3340	50.80 (2.000)	48.26 (1.900)
50	90151-2150	90151-2250	90151-2350	90151-3150	90151-3250	90151-3350	63.50 (2.500)	60.96 (2.400)
60	90151-2160	90151-2260	90151-2360	90151-3160	90151-3260	90151-3360	76.20 (3.000)	73.66 (2.900)
64	90151-2164	90151-2264	90151-2364	90151-3164	90151-3264	90151-3364	81.28 (3.200)	78.74 (3.100)

For other available circuit sizes contact Molex

Plating A: 1.00μm (39μ") min. Hot Tin dip

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 10 to 64 circuits
- Contact and plating orientation according to DIN 41651
- Stackable end-to-end
- Meets HE 13/14 specification

Reference Information

Product Specification: PS-99020-0001
 Packaging: Tube
 Mates With: 0.64mm (.025") square pins
 Use With: 1.57mm (.062") thick PC boards
 Designed In: Inches

Electrical

Voltage: 350V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Retention to Housing: 8.8N min.
 Mating Force: 1N max. Gold and 3N max. Tin
 Unmating Force: 0.2N min. Gold and 0.2N min. Tin
 Normal Force: 1N

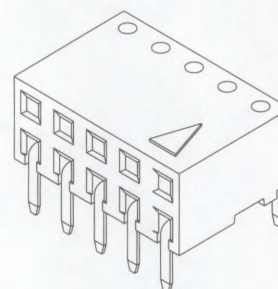
Physical

Housing: Black glass-filled polyester, UL 94V-0
 Contact: Copper Alloy
 Plating: See Table
 Operating Temperature: -55 to +125°C
 Recommended Mating Pin Length: 5.65mm (.222") min. to 7.00mm (.275") max.

molex® 2.54mm (.100") Pitch C-Grid III™ PC Board Connectors

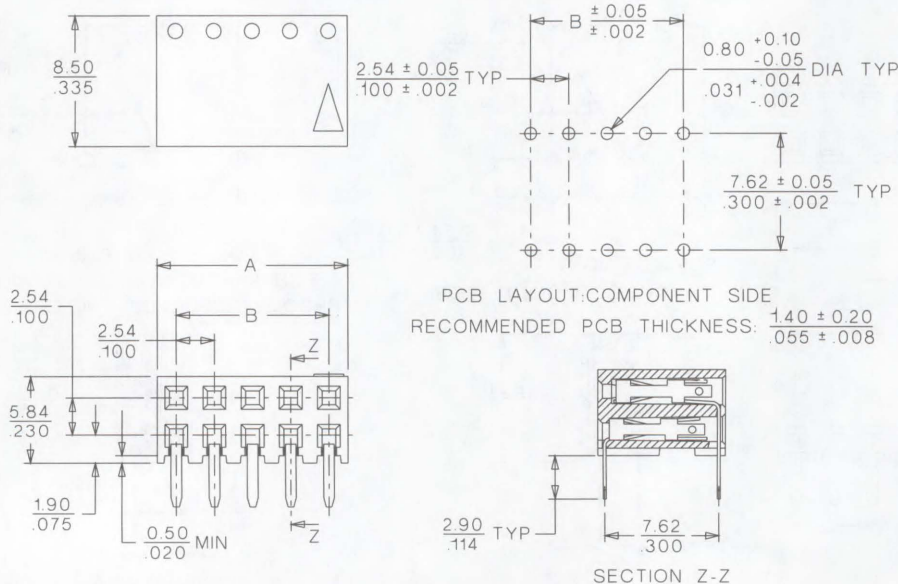
90152

**Dual Row
 Horizontal**



CATALOG DRAWING (FOR REFERENCE ONLY)

Not For Use With Molex SL™ Components



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Straight Tail			A	B
	Plating A	Plating E	Plating F		
10	90152-2110	90152-2210	90152-2310	12.70 (.500)	10.16 (.400)
14	90152-2114	90152-2214	90152-2314	17.78 (.700)	15.24 (.600)
16	90152-2116	90152-2216	90152-2316	20.32 (.800)	17.78 (.700)
20	90152-2120	90152-2220	90152-2320	25.40 (1.000)	22.86 (.900)
26	90152-2126	90152-2226	90152-2326	33.02 (1.300)	30.48 (1.200)
34	90152-2134	90152-2234	90152-2334	43.18 (1.700)	40.64 (1.600)
40	90152-2140	90152-2240	90152-2340	50.80 (2.000)	48.26 (1.900)
50	90152-2150	90152-2250	90152-2350	63.50 (2.500)	60.96 (2.400)
60	90152-2160	90152-2260	90152-2360	76.20 (3.000)	73.66 (2.900)
64	90152-2164	90152-2264	90152-2364	81.28 (3.200)	78.74 (3.100)

For other available circuit sizes contact Molex

Plating A: 1.00μm (39μ") min. Hot Tin dip

Plating E: 0.38μm (15μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

Plating F: 0.76μm (30μ") selective Gold over Nickel and 4μm (160μ") Tin/Lead over Nickel

INTRODUCTION

The proven KK system of "building block" connectors can be used to create thousands of different configurations, thereby allowing each user to build a system that is precisely suited to any application on 2.50mm (.098"), 2.54mm (.100"), 3.96mm (.156") and 5.08mm (.200") centers.

The system offers interconnection in a number of modes; cable-to-board, board-to-board, both parallel and perpendicular; and board- or cable-to-chassis. Features include a friction lock to secure connectors to wafer, polarizing wall or location pegs to assure correct assembly. Various methods of securely holding the connectors to a PC board are available.

The Molex KK interconnection system can provide all the options necessary to complement PC board interconnection design requirements. For this reason, KK has become known as a versatile interconnecting system developed to meet the challenge of modularization. **For specifications or design information please contact a Molex representative.**

To complement the KK System, Molex has developed a full line of application tooling. This includes both manual and semi-automatic crimp tooling, and also some of the fastest and most economical pin setting equipment in the industry. The Molex Vibrator Multi Pinsetter® can set 12,000 pins in 3 minutes.



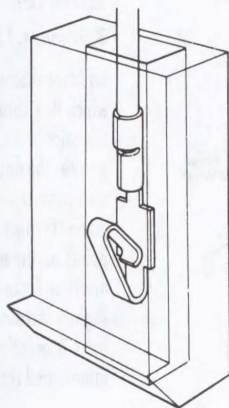
2.54mm (.100") and 3.96mm (.156") Pitch KK® Modular Interconnection System

C
2.54mm (.100") Pitch

MOLEX KK CONCEPT

The Molex KK concept utilizes a **double cantilever contact design** in mating with PC board pins. The proven double cantilever design provides a high uniform contact pressure for a reliable connector interface. The high pressure creates many contact points at a microscopic level, thereby providing a lower contact resistance. The wiping action of the double cantilever design tends to clean oxides and film when the connector is mated.

The Molex KK concept provides a durable connector interface at an affordable price ... a totally engineered product.



FEATURES AND BENEFITS

Crimp Terminal Housings

- Available on 2.50mm (.098"), 2.54mm (.100"), 3.96mm (.156") and 5.08mm (.200") center spacings
- Polarization via insertable keys and pegs, molded voids or pegs, polarizing ribs or polarizing wall headers
- Locking ramp for improved mated retention with locking headers
- Many circuit sizes
- Accepts KK gas tight crimp terminals
- Mates with headers or pins in the board
- Available with Tin, Gold or Select Gold plating

Solder Tail Connectors

- Versions to accept mating pins vertically, horizontally or through the printed circuit board
- Available on 2.50mm (.098"), 2.54mm (.100"), 3.96mm (.156") and 5.08mm (.200") center spacings
- Mates with headers or pins in the board
- Strain relieving board hooks
- Polarization via insertable keys or pegs
- Locking ramps for improved retention when mated
- Stackable end-to-end
- Pre-assembled with KK gas tight terminals

Headers

- Available on 2.50mm (.098"), 2.54mm (.100"), 3.96mm (.156") and 5.08mm (.200") center spacings
- Polarization via voided positions and polarizing walls, except 2.50mm (.098")
- Locking wall option for improved retention with mating connector
- Industry compatible
- Breakaway and solid styles available

Male Pins

- 0.64mm (.025") square or 1.14mm (.045") square or round
- Press fit and solder to board
- Mates with crimp or solder connector
- Variety of standard platings and lengths
- Range of application tooling available

INTRODUCTION

Molex offers you a complete line of insulation displacement systems for discrete wire and flat cable applications.

Our insulation displacement technology (IDT) connectors offer you a dramatic applied cost savings over equivalent crimp connectors. The reason: With IDT, all contacts are terminated in a single step, the insulation being displaced from the conductor as the wire is pushed into the connector body. The labor intensive steps of wire stripping and terminal crimping are eliminated from the process. And, when our IDT connectors are terminated in mass, your cost savings multiply by the number of circuits used.

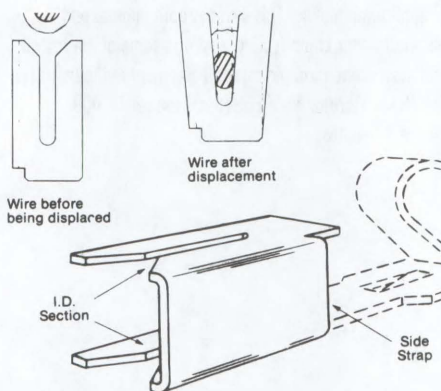
IDT Concept

The Molex design features 2 parallel plates with chamfered lead-in slots. These slots displace wire insulation and reshape the conductors by pressure. The result: 4 high pressure points of contact.

To provide a wide conductor path and both horizontal and lateral strength, the insulation displacement section is connected by a large side strap that runs almost the entire length of the plate.

Our broad range of available connector styles and center spacings means that Molex IDT products can be used as drop-in replacements for other less cost effective systems. Locking ramps, polarizing voids and dust covers are available for almost all of our connectors.

To terminate our IDT products, Molex offers a full line of application tooling from hand tools to completely automated harness assembly machines.



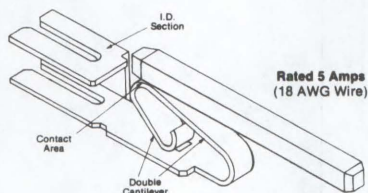
molex® KK® Modular Interconnection System Insulation Displacement Technology (IDT)

TERMINAL DESIGNS

KK® Double Cantilever Contact

3.96mm (.156") and 5.08mm (.200") Center Connectors

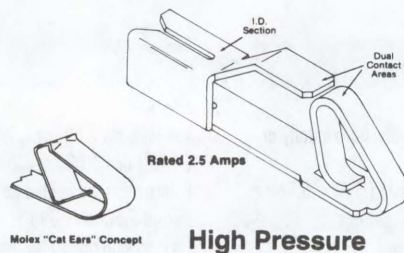
The double cantilever contact provides a high pressure contact area with a square or round post. The 2 cantilevers act in unison to provide a linear force increase as the pin is pushed in the housing.



Dual Contact/with Cat Ears Option

2.50mm (.098") and 2.54mm (.100") Center Connectors

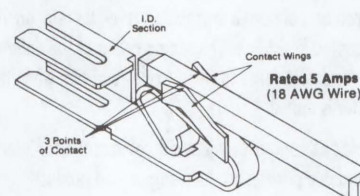
The dual contact utilizes the double cantilever approach and expands upon the design by extending a beam off the insulation displacing sections. The second stationary contact results in 2 independent points of contact on the mating pin.



Trifurcon™ Contact Design

3.96mm (.156") and 5.08mm (.200") Center Connectors

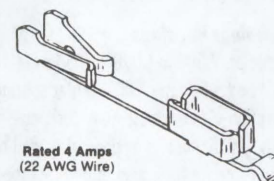
An ideal choice for situations in which flux contamination, shock or vibration exist, this terminal incorporates the double cantilever design with contact wings in the vertical plane. Contact is achieved at 3 points on the mating pin. While insertion force of this combination is slightly increased, the extraction force is greatly increased and maintained through disconnect cycling.



In-Line Contact (Euro 250 Series)

2.50mm (.098") Center Connectors

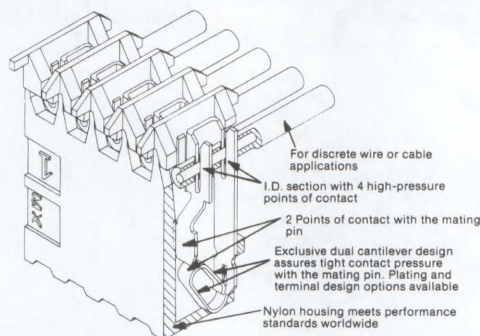
This contact is ideal for in-line wire feed applications, as the dual cantilever and formed slot design provide both a low profile and a reliable interconnection.



STANDARD IDT CONNECTORS

Designed for use with discrete wire or round conductor flat cable, the Molex standard connectors lend themselves to a variety of applications.

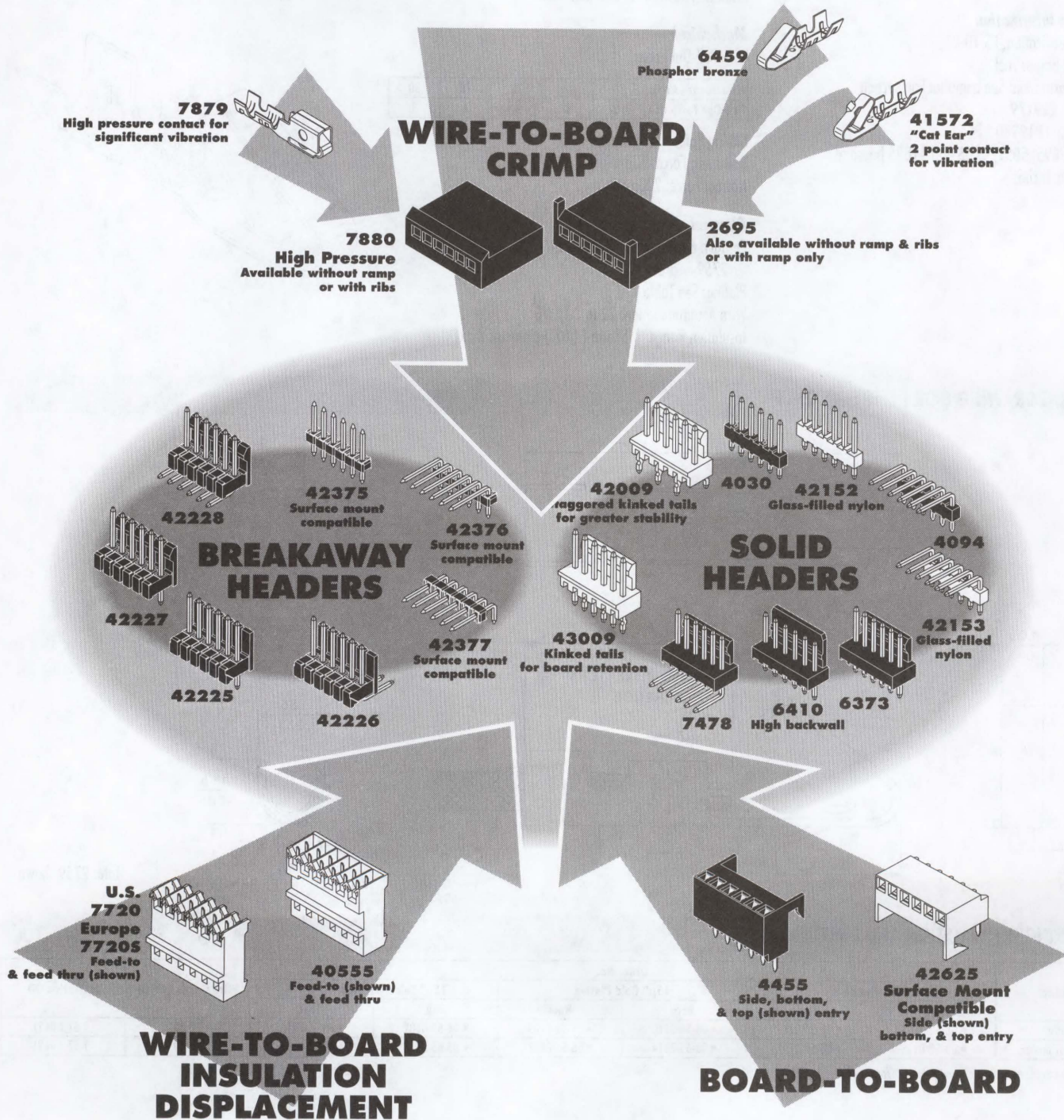
- Single-ended discrete wire harnesses
- Double-ended discrete wire harnesses
- Round conductor flat cable daisy chains
- Termination of both flat cable and discrete wires in a single housing



molex® 2.54mm (.100") Pitch
KK®
Product Overview

C

2.54mm (.100") Pitch



FEATURES AND SPECIFICATIONS

Features and Benefits

- Standard cantilever terminal
- Cantilever design provides high contact pressure
- Wiping action cleans oxides when connector is mated
- 2759 Series is Brass
- 6459 Series is Phosphor Bronze

Reference Information

Product Specification: PS-10-07

Packaging: Bag or reel

Tooling Information: See crimp tooling section

UL File No.: E29179

CSA File No.: LR19980

Use With: 2695, 5051, 6745 and 41895 housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 6459—4.0A

2759—2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Wire Pull-Out Force:

Wire Gauge (AWG)	22	24	26	28	30
Pull-Out Force (lb)	10	8	6	4	3

Mating Force: 255g max.

Unmating Force: 50g min.

Normal Force: 200g min.

Physical

Contact: 6459—Phosphor Bronze

2759—Brass

Plating: See Table

Wire Accommodation: 22 to 30 AWG

Insulation Range: 1.58mm (.062") diameter max.

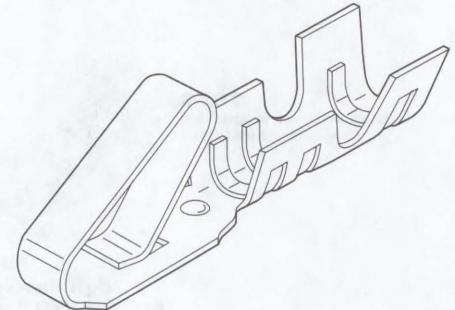


2.54mm (.100") Pitch

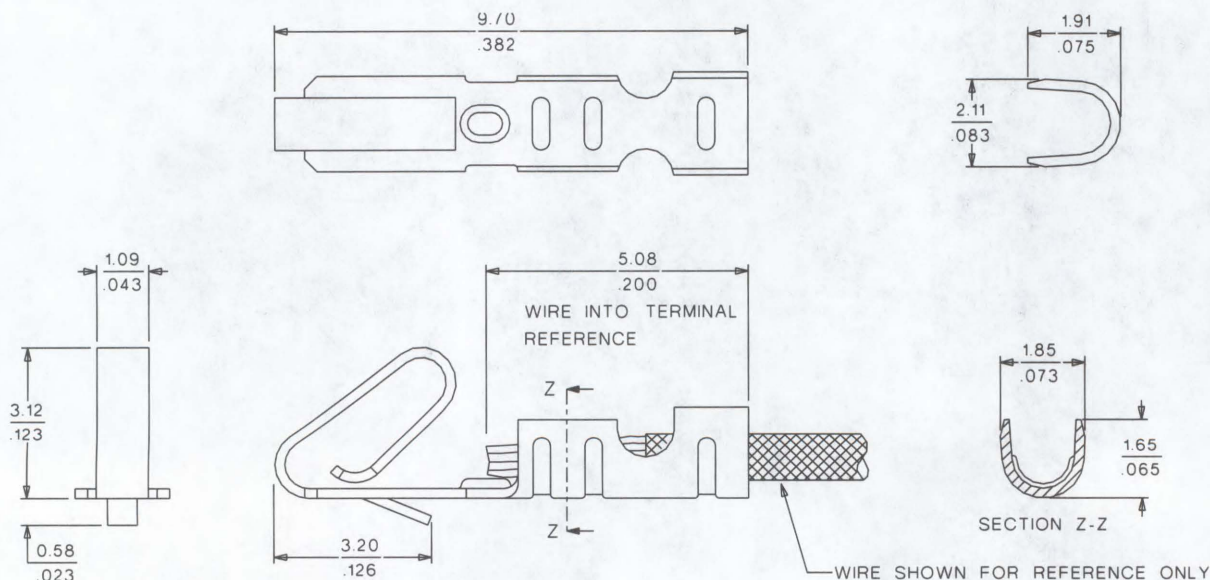
KK®

Crimp Terminal

2759/6459



CATALOG DRAWING (FOR REFERENCE ONLY)



Note: 2759 shown

ORDERING INFORMATION AND DIMENSIONS

Contact	Order No.						Wire Gauge (AWG)	Insulation OD
	Tin Plating		15μ" Gold Plating		15μ" Selective Gold Plating			
	Bag	Reel	Bag	Reel	Bag	Reel		
Brass	• 08-50-0114	• 08-50-0113	• 08-56-0110	• 08-56-0109	• 08-55-0102	• 08-55-0101	22-30	1.57 (.062)
Phosphor Bronze	• 08-52-0123	• 08-52-0101	• 08-65-0814	• 08-65-0813	• 08-65-0816	• 08-65-0815	22-30	1.57 (.062)

• US Standard Product, available through Molex franchised distributors

FEATURES AND SPECIFICATIONS

Features and Benefits

- Similar to 2759/6459 Series with cat ears
- Cat ears provide 2 high pressure points of contact
- Suitable for high vibrational requirements

Reference Information

Product Specification: PS-10-07
 Packaging: Bag or reel
 Tooling Information: See crimp tooling section
 UL File No.: E29179
 CSA File No.: LR19980
 Use With: 2695, 3071, 5051 and 6471
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 4.0A (5159—3.0A)
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V AC (5159—
 1000V AC/1 min.)
 Insulation Resistance: 50K MΩ min. (5159—
 1000 MΩ min.)

Mechanical

Wire Pull-Out Force:

Wire Gauge (AWG)	22	24	26	28	30
Pull-Out Force (lb)	10	8	6	4	3

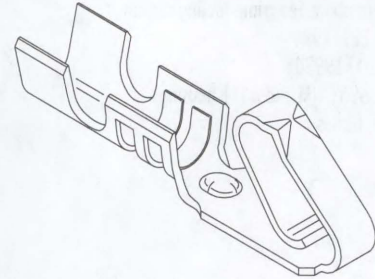
Mating Force: 300g max.
 Unmating Force: 70g min.
 Normal Force: 230g min.

Physical

Contact: Phosphor Bronze and Brass
 Plating: See Table
 Wire Accommodation: 22 to 30 AWG

molex® 2.54mm (.100") Pitch KK® Cat Ear Terminal

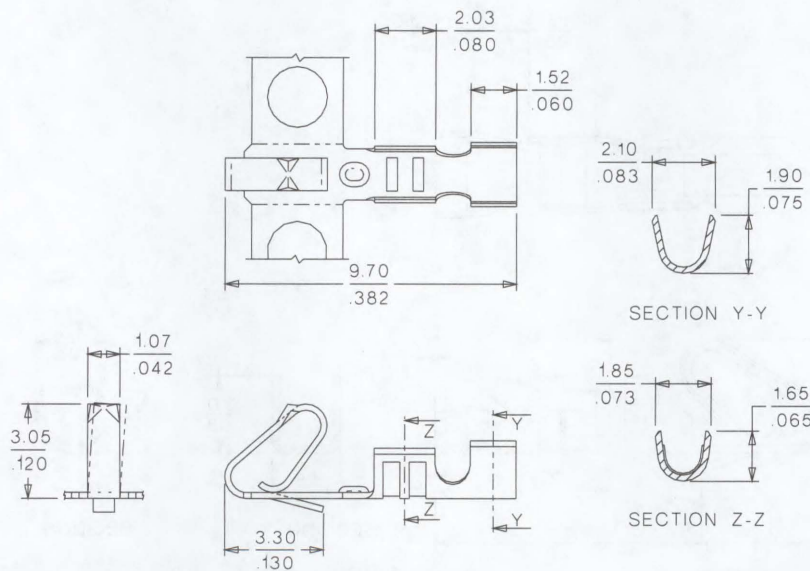
40445/41572/5159



C

2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



Note: 41572 shown

ORDERING INFORMATION

40445*			
Tin			
Bag		Reel	
97-00-0445		97-00-0444	
5159†			
Phosphor Bronze		Brass	
Bag	Reel	Bag	Reel
08-70-0049	08-70-0048	08-70-0069	08-70-0064

41572‡	
Tin	
Bag	Reel
08-65-0805	08-65-0804

* Preferred version in Europe

† Preferred version in the Far East

‡ Preferred version in the US



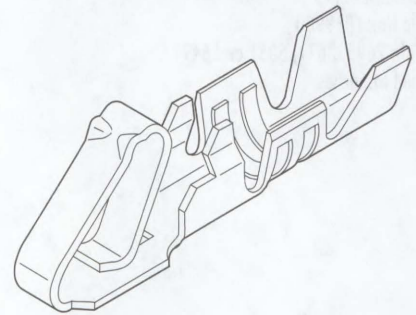
2.54mm (.100") Pitch

KK®

Crimp Terminal

4809

Anti-Fishhooking



FEATURES AND SPECIFICATIONS

Features and Benefits

- Avoids tangling at pre-assembly
- Available with cat ears

Reference Information

Product Specification: PS-10-07

Packaging: Reel or bag

Tooling Information: See crimp tooling section

UL File No.: E29179

CSA File No.: LR19980

Mates With: 5051-NM and 6471 housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 500K MΩ min.

Mechanical

Contact Insertion Force: 681g max.

Contact Retention to Housing: 27.21g min.

Wire Pull-Out Force: 3 lb min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g

Durability: 50 cycles Gold and 25 cycles Tin

Physical

Contact: Brass

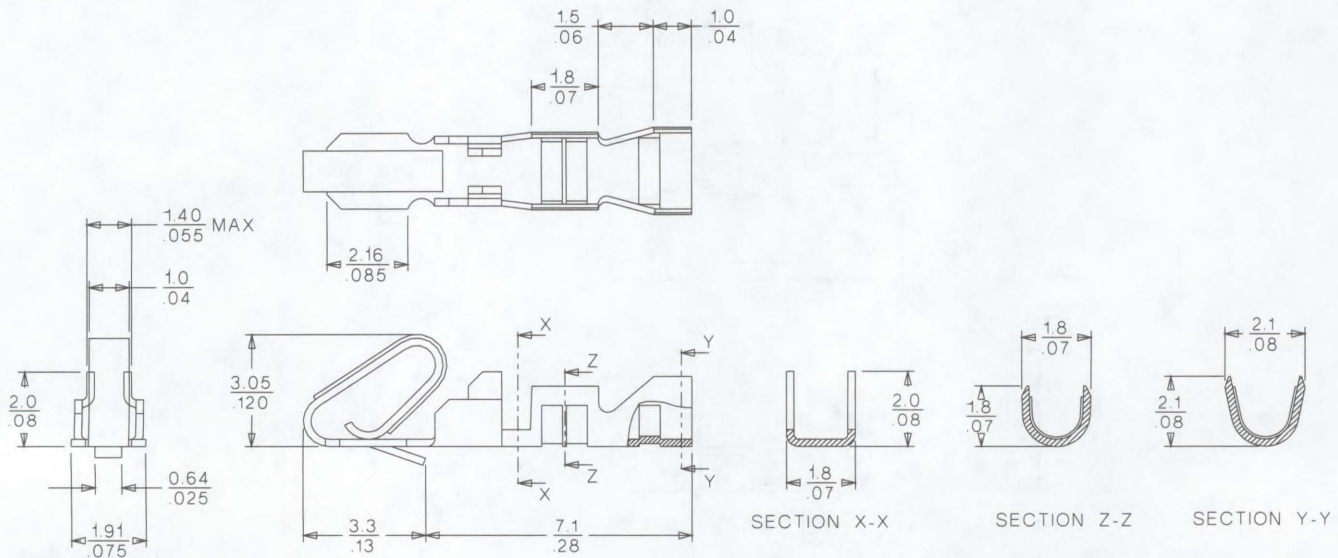
Plating: Gold, select Gold and Tin/Lead

Operating Temperature: Storage—-40 to +105°C

Operating—0 to +75°C

Wire Accommodation: 22 to 30 AWG

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION

Order No.		Plating	Crimp Wire Size	Insulation Diameter	Engineering No.
Bag	Reel				
08-50-0032	08-50-0031	1.00 to 2.50μm Tin/Lead	22-30	1.57 (.062) max.	4809
08-55-0111	08-55-0110	0.38μm Gold in contact area only			
08-56-0115	08-56-0120	0.38μm Gold in contact area, Gold flash overall			

FEATURES AND SPECIFICATIONS

Features and Benefits

- Multiple contacting points
- Patented triple cantilever with box shroud
- Suitable for high vibration requirements
- Box shroud prevents contamination to the contact surface
- Crimping die or hand tool available

Reference Information

Product Specification: PS-7879

Packaging: Bag or reel

Tooling Information: See crimp tooling section

UL File No.: E29179

CSA File No.: LR19980

Use With: 7880 housings

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Wire Pull-Out Force:

Wire Gauge (AWG)	22	24	26	28	30
Pull-Out Force (lb)	10	8	6	4	3

Mating Force: 475g max.

Unmating Force: 100g min.

Normal Force: 430g min.

Physical

Contact: Brass

Plating: See Table

Wire Accommodation: 22 to 30 AWG

Insulation Range: 1.58mm (.062") diameter max.



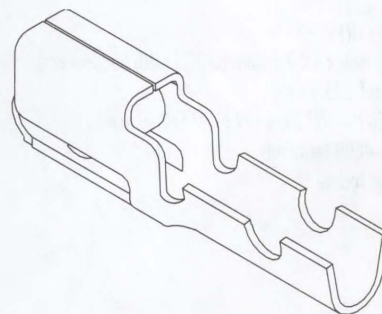
2.54mm (.100") Pitch

KK®

Crimp Terminal

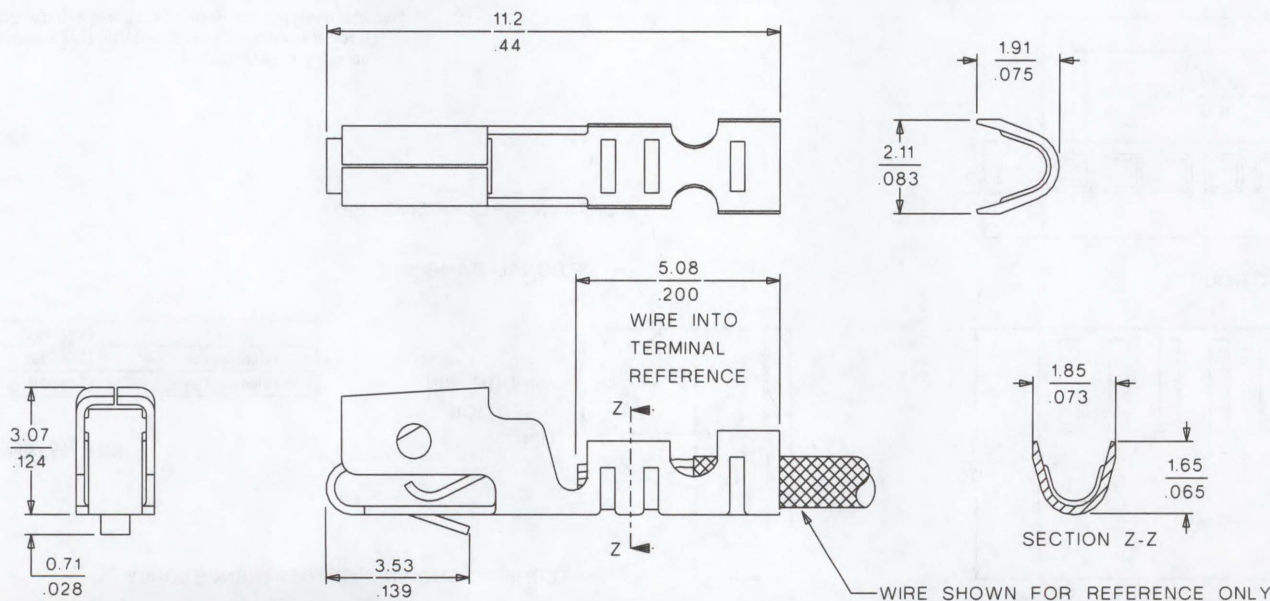
7879

High Pressure



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Order No.		Plating	Wire Gauge (AWG)	Insulation Diameter
Bag	Reel			
• 08-50-0005	• 08-50-0004	Tin/Copper	22-30	1.57 (.062) max.
08-55-0129	08-55-0124	Select Gold		

• US Standard Product, available through Molex franchised distributors

Recommended wire range assumes stranded wire

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 1 to 25 circuits
- 6471 is end-to-end stackable (2 housings only)
- 2695 version with or without locking ramp and polarizing ribs

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.04mm (.025") pins

Use With: 2695—2759, 6459 or 41572 terminals

6471—4809 terminals

Designed In: Inches

Electrical*

Voltage: 250V

Current: Phosphor Bronze—4.0A max.

Brass—2.5A max.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

Mechanical*

Contact Insertion Force: 681g (1.5 lb) max.

Contact Retention to Housing: 3.63kg (8 lb) min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 200g min.

Physical

Housing: 2695—Red nylon, UL 94V-0

6471—White nylon, UL 94V-0

Operating Temperature: 0 to +75°C

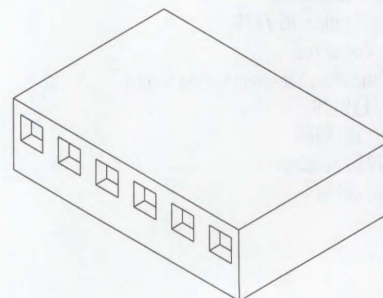


2.54mm (.100") Pitch

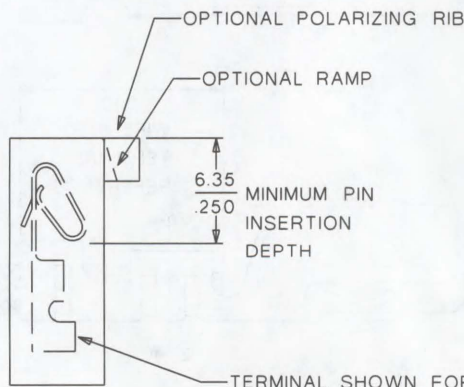
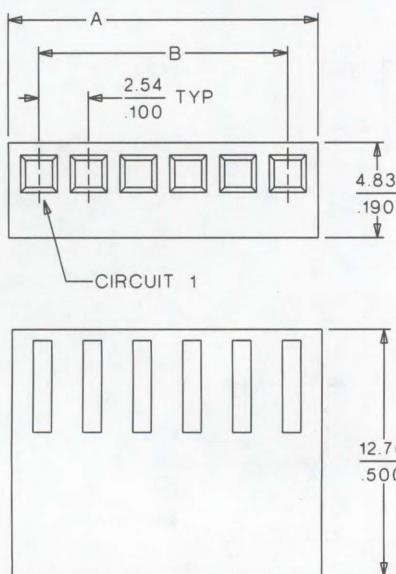
KK®

Crimp Terminal Housing

2695/6471



CATALOG DRAWING (FOR REFERENCE ONLY)



Note: When mating polarizing rib version with breakaway friction lock header or polarizing wall series, the end friction lock or polarizing wall of header must be removed.

	Order No.
Polarizing Key	15-04-9209
Polarizing Peg	15-04-9210

Note: 2695 shown

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension	
	2695		6471			
	With Locking Ramp	With Locking Ramp and Polarizing Ribs	Without Locking Ramp or Ribs	With Locking Ramp and Polarizing Ribs [†]	A	B
1			• 22-01-2011		3.10 (.122)	
2	• 22-01-2027	• 22-01-3027	• 22-01-2021	22-01-2025	5.60 (.220)	2.54 (.100)
3	• 22-01-2037	• 22-01-3037	• 22-01-2031	22-01-2035	8.10 (.320)	5.08 (.200)
4	• 22-01-2047	• 22-01-3047	• 22-01-2041	22-01-2045	10.70 (.420)	7.62 (.300)
5	• 22-01-2057	• 22-01-3057	• 22-01-2051	22-01-2055	13.20 (.520)	10.16 (.400)
6	• 22-01-2067	• 22-01-3067	• 22-01-2061	22-01-2065	15.80 (.620)	12.70 (.500)
7	• 22-01-2077	• 22-01-3077	• 22-01-2071	22-01-2075	18.30 (.720)	15.24 (.600)
8	• 22-01-2087	• 22-01-3087	• 22-01-2081	22-01-2085	20.90 (.820)	17.78 (.700)
9	• 22-01-2097	• 22-01-3097	• 22-01-2091	22-01-2095	23.40 (.920)	20.32 (.800)
10	• 22-01-2107	• 22-01-3107	• 22-01-2101	22-01-2105	25.90 (1.020)	22.86 (.900)
11	• 22-01-2117	• 22-01-3117	• 22-01-2111	22-01-2115	28.50 (1.120)	25.40 (1.000)
12	• 22-01-2127	• 22-01-3127	• 22-01-2121	22-01-2125	31.00 (1.220)	27.94 (1.100)

* US Standard Product, available through Molex franchised distributors

* When mated with Molex product only

[†] For circuits 19-28, contact Molex

Circuits	Order No.				Dimension	
	2695			6471		
	With Locking Ramp	With Locking Ramp and Polarizing Ribs	Without Locking Ramp or Ribs	With Locking Ramp and Polarizing Ribs [†]	A	B
13	• 22-01-2137	• 22-01-3137	• 22-01-2131	22-01-2135	33.50 (1.320)	30.48 (1.200)
14	• 22-01-2147	• 22-01-3147	• 22-01-2141	22-01-2145	36.10 (1.420)	33.02 (1.300)
15	• 22-01-2157	• 22-01-3157	• 22-01-2151	22-01-2155	38.60 (1.520)	35.56 (1.400)
16	• 22-01-2167	• 22-01-3167	• 22-01-2161	22-01-2165	41.20 (1.620)	38.10 (1.500)
17	• 22-01-2177	• 22-01-3177	• 22-01-2171	22-01-2175	43.70 (1.720)	40.64 (1.600)
18	• 22-01-2187	• 22-01-3187	• 22-01-2181	22-01-2185	46.20 (1.820)	43.18 (1.700)
19	• 22-01-2197	• 22-01-3197	• 22-01-2191		48.80 (1.920)	45.72 (1.800)
20	• 22-01-2207	• 22-01-3207	• 22-01-2201		51.30 (2.020)	48.26 (1.900)
21	• 22-01-2217	• 22-01-3217	• 22-01-2211		53.90 (2.120)	50.80 (2.000)
22	• 22-01-2227	• 22-01-3227	• 22-01-2221		56.40 (2.220)	53.34 (2.100)
23	• 22-01-2237	• 22-01-3237	• 22-01-2231		58.90 (2.320)	55.88 (2.200)
24	• 22-01-2247	• 22-01-3247	• 22-01-2241		61.50 (2.420)	58.42 (2.300)
25	• 22-01-2257	• 22-01-3257	• 22-01-2251		64.00 (2.520)	60.96 (2.400)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 1 to 28 circuits
- Standard with locking ramp
- Suitable for high vibration requirements

Reference Information

Product Specification: PS-7879

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers

Use With: 7879 terminals

Designed In: Inches

Electrical*

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical*

Contact Insertion Force: 1.5 lb max.

Contact Retention to Housing: 8 lb min.

Mating Force: 475g max.

Unmating Force: 100g min.

Normal Force: 430g min.

Physical

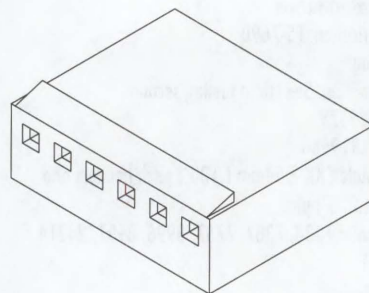
Housing: Red nylon, UL 94V-0

Operating Temperature: -0 to +75°C

molex® 2.54mm (.100") Pitch KK® Crimp Terminal Housing

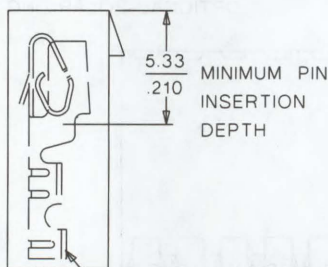
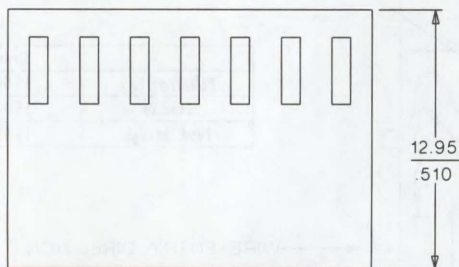
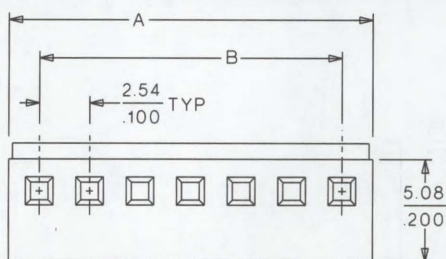
7880

High Pressure



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



TERMINAL SHOWN FOR REFERENCE ONLY

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
1	• 10-11-2013	3.10 (.122)	
2	• 10-11-2023	5.64 (.222)	2.54 (.100)
3	• 10-11-2033	8.18 (.322)	5.08 (.200)
4	• 10-11-2043	10.72 (.422)	7.62 (.300)
5	• 10-11-2053	13.26 (.522)	10.16 (.400)
6	• 10-11-2063	15.80 (.622)	12.70 (.500)
7	• 10-11-2073	18.34 (.722)	15.24 (.600)
8	• 10-11-2083	20.88 (.822)	17.78 (.700)
9	• 10-11-2093	23.42 (.922)	20.32 (.800)
10	• 10-11-2103	25.96 (1.022)	22.86 (.900)
11	• 10-11-2113	28.50 (1.122)	25.40 (1.000)
12	• 10-11-2123	31.04 (1.222)	27.94 (1.100)
13	• 10-11-2133	33.58 (1.322)	30.48 (1.200)
14	• 10-11-2143	36.12 (1.422)	33.02 (1.300)

Circuits	Order No.	Dimension	
		A	B
15	• 10-11-2153	38.66 (1.522)	35.56 (1.400)
16	• 10-11-2163	41.20 (1.622)	38.10 (1.500)
17	• 10-11-2173	43.74 (1.722)	40.64 (1.600)
18	• 10-11-2183	46.28 (1.822)	43.18 (1.700)
19	• 10-11-2193	48.82 (1.922)	45.72 (1.800)
20	• 10-11-2203	51.36 (2.022)	48.26 (1.900)
21	• 10-11-2213	53.90 (2.122)	50.80 (2.000)
22	• 10-11-2223	56.44 (2.222)	53.34 (2.100)
23	• 10-11-2233	59.98 (2.322)	55.88 (2.200)
24	• 10-11-2243	61.52 (2.422)	58.42 (2.300)
25	• 10-11-2253	64.06 (2.522)	60.96 (2.400)
26	• 10-11-2263	66.60 (2.622)	63.50 (2.500)
27	• 10-11-2273	69.14 (2.722)	66.04 (2.600)
28	• 10-11-2283	71.68 (2.822)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

* When mated with Molex product only

Note: In the Far East this housing has a different Engineering Series No. and different Order No.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- 4 points of contact on conductor
- Feed-to and feed-through versions available
- End-to-end polarization optional
- Molded-in strain reliefs
- Terminals available with Gold plating (contact Molex for details)

Reference Information

Product Specification: PS-7690

Packaging: Bag

Tooling Information: See crimp tooling section

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.64mm (.025") pins

Use Molex Cable: 7234, 7307, 7767, 8996, 8997, 24214 and 24241

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.5A max. (24 AWG)

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 200K MΩ min.

Mechanical

Contact Retention to Housing: 6 lb min.

Mating Force: 255g max.

Unmating Force: 85g min.

Normal Force: 6.5 oz min.

Physical

Housing: Natural nylon, UL 94V-2

Contact: Phosphor Bronze

Plating: Tin

Operating Temperature: 0 to +75°C

Wire Range: 0.76 to 1.52mm (.030 to .060") OD max.

(Discrete Wire) and 0.76 to 1.27mm (.030 to .050")

OD max. (mass termination)



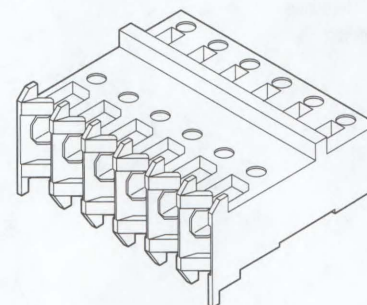
2.54mm (.100") Pitch

KK®

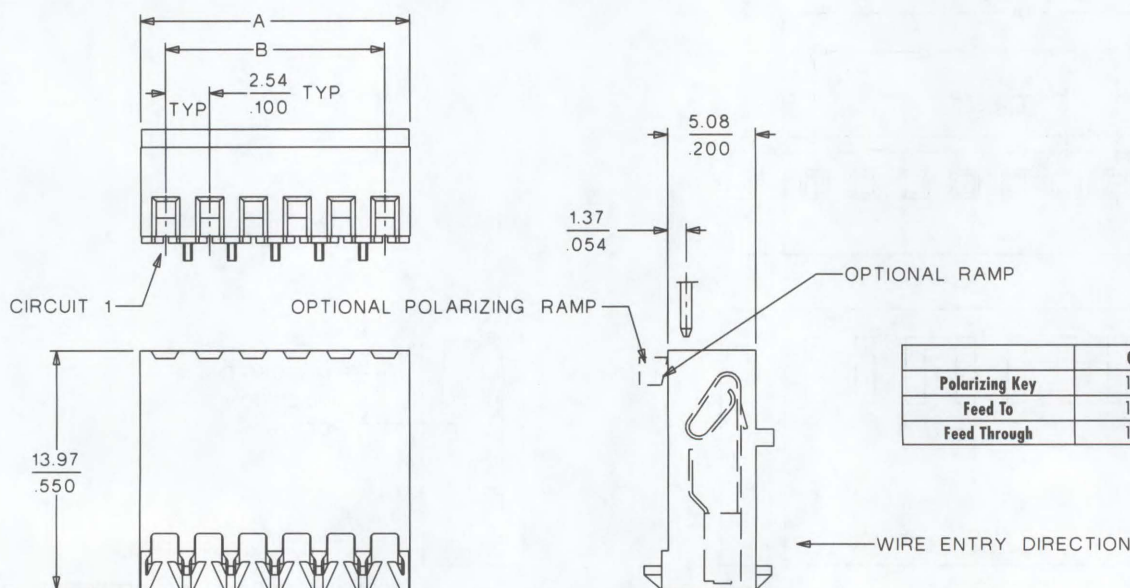
Connector

7720

24, 26 or 28 AWG, IDT
Double Cantilever Contact



CATALOG DRAWING (FOR REFERENCE ONLY)



	Order No.
Polarizing Key	15-04-0292
Feed To	15-05-8XX7
Feed Through	15-05-8XX5

ORDERING INFORMATION AND DIMENSIONS

Order No.						Color	Type of Wire Terminated
Feed-Through			Feed-To				
Without Ramp	With Ramp	With Polarized Ramp	Without Ramp	With Ramp	With Polarized Ramp		
22-26-7XX1	22-26-8XX1	22-26-9XX1	22-41-3XX1	22-41-4XX1	22-41-5XX1	Brown	26 AWG stranded or solid, and 28 AWG solid, stranded or fused
22-26-7XX2	22-26-8XX2	22-26-9XX2	22-41-3XX2	22-41-4XX2	22-41-5XX2	Green	24 AWG stranded, solid, fused, topcoat, and 26 AWG fused and topcoat
Replace XX with number of circuits: 02 to 28							

Replace XX with number of circuits, 02 to 28

Circuits	Dimension		Circuits	Dimension		Circuits	Dimension		Circuits	Dimension	
	A	B		A	B		A	B		A	B
2	5.44 (.214)	2.54 (.100)	9	23.22 (.914)	20.32 (.800)	16	41.00 (1.614)	38.10 (1.500)	23	58.78 (2.314)	55.88 (2.200)
3	7.98 (.314)	5.08 (.200)	10	25.76 (1.014)	22.86 (.900)	17	43.54 (1.714)	40.64 (1.600)	24	61.32 (2.414)	58.42 (2.300)
4	10.52 (.414)	7.62 (.300)	11	28.30 (1.114)	25.40 (1.000)	18	46.08 (1.814)	43.18 (1.700)	25	63.86 (2.514)	60.96 (2.400)
5	13.06 (.514)	10.16 (.400)	12	30.84 (1.214)	27.94 (1.100)	19	48.62 (1.914)	45.72 (1.800)	26	66.40 (2.614)	63.50 (2.500)
6	15.60 (.614)	12.70 (.500)	13	33.38 (1.314)	30.48 (1.200)	20	51.16 (2.014)	48.26 (1.900)	27	68.94 (2.714)	66.04 (2.600)
7	18.14 (.714)	15.24 (.600)	14	35.92 (1.414)	33.02 (1.300)	21	53.70 (2.114)	50.80 (2.000)	28	71.48 (2.814)	68.58 (2.700)
8	20.68 (.814)	17.78 (.700)	15	38.46 (1.514)	35.56 (1.400)	22	56.24 (2.214)	53.34 (2.100)			

Note: Some wires require deviation from chart

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- 4 points of contact on conductor
- Feed-to and feed-through versions available
- End-to-end polarization optional
- Molded-in strain reliefs
- Terminals available with Gold plating (contact Molex for details)

Reference Information

Product Specification: PS-7690

Packaging: Bag

Tooling Information: See end of section

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.64mm (.025") pins

Use Molex Cable: 7234, 7307, 7767, 8996, 8997, 24214 and 24241

Designed In: Inches

Electrical

Voltage: 250V

Current: 3.5A max.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 200K MΩ min.

Mechanical

Contact Retention to Housing: 6 lb min.

Mating Force: 255g max.

Unmating Force: 85g min.

Normal Force: 6.5 oz min.

Physical

Housing: Natural nylon, UL 94V-2

Contact: Phosphor Bronze

Plating: Tin

Operating Temperature: 0 to +75°C

Wire Range: 0.76 to 1.52mm (.030 to .060") OD max.

(Discrete Wire) and 0.76 to 1.27mm (.030 to .050")

OD max. (mass termination)



2.54mm (.100") Pitch

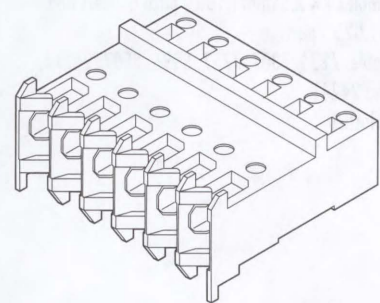
KK®

Connector

7720

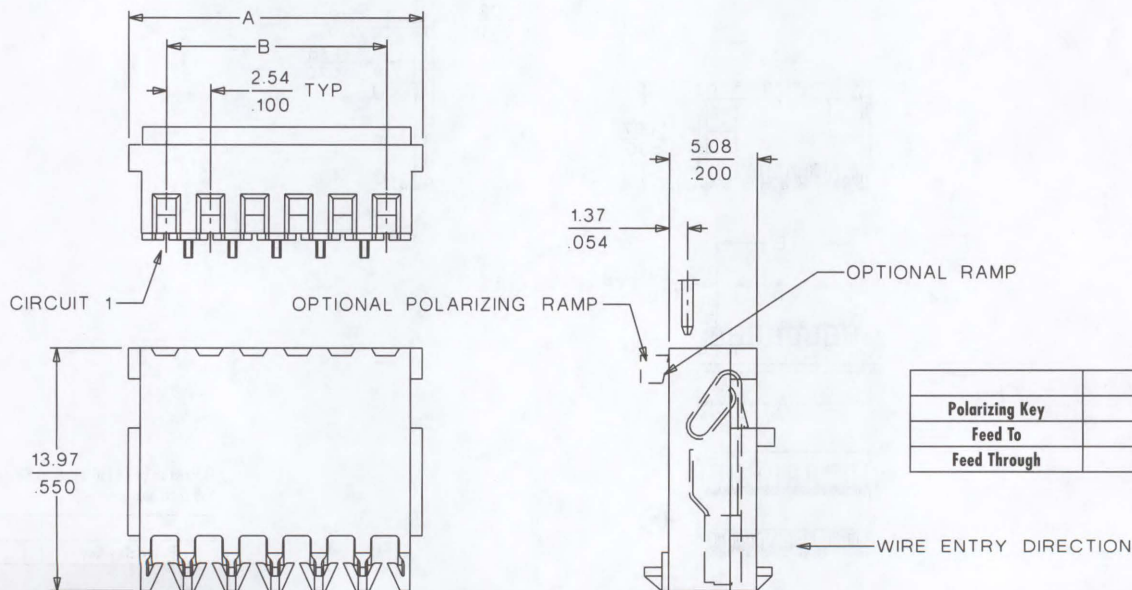
22 AWG, IDT

Double Cantilever Contact



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



	Order No.
Polarizing Key	15-04-0292
Feed To	15-05-8XX7
Feed Through	15-05-8XX5

ORDERING INFORMATION AND DIMENSIONS

Order No.						Color	Type of Wire Terminated
Feed-Through			Feed-To				
Without Ramp	With Ramp	With Polarized Ramp	Without Ramp	With Ramp	With Polarized Ramp		
22-42-6XX0	22-42-6XX1	22-42-6XX2	22-42-6XX3	22-42-6XX4	22-42-6XX5	Black	22 AWG stranded tinned
Replace XX with number of circuits. 02 to 28							

Replace XX with number of circuits, 02 to 28

Circuits	Dimension	
	A	B
2	5.44 (.214)	2.54 (.100)
3	7.98 (.314)	5.08 (.200)
4	10.52 (.414)	7.62 (.300)
5	13.06 (.514)	10.16 (.400)
6	15.60 (.614)	12.70 (.500)
7	18.14 (.714)	15.24 (.600)
8	20.68 (.814)	17.78 (.700)

Circuits	Dimension	
	A	B
9	23.22 (.914)	20.32 (.800)
10	25.76 (1.014)	22.86 (.900)
11	28.30 (1.114)	25.40 (1.000)
12	30.84 (1.214)	27.94 (1.100)
13	33.38 (1.314)	30.48 (1.200)
14	35.92 (1.414)	33.02 (1.300)
15	38.46 (1.514)	35.56 (1.400)

Circuits	Dimension	
	A	B
16	41.00 (1.614)	38.10 (1.500)
17	43.54 (1.714)	40.64 (1.600)
18	46.08 (1.814)	43.18 (1.700)
19	48.62 (1.914)	45.72 (1.800)
20	51.16 (2.014)	48.26 (1.900)
21	53.70 (2.114)	50.80 (2.000)
22	56.24 (2.214)	53.34 (2.100)

Circuits	Dimension	
	A	B
23	58.78 (2.314)	55.88 (2.200)
24	61.32 (2.414)	58.42 (2.300)
25	63.86 (2.514)	60.96 (2.400)
26	66.40 (2.614)	63.50 (2.500)
27	68.94 (2.714)	66.04 (2.600)
28	71.48 (2.814)	68.58 (2.700)

Note: Some wires require deviation from chart

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Standard with locking ramp
- Molded-in strain reliefs

Reference Information

Product Specification: PSX-7690S

Packaging: Bag

Tooling Information: See end of section

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.64mm (.025") pins

Use Molex Cable: 7234, 7307, 7767, 8996, 8997, 24214, 24226 and 24241

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 200K MΩ min.

Mechanical

Contact Retention to Housing: 8 lb min.

Wire Pull-Out Force: 1.35 lb min.

Mating Force: 9 oz max.

Unmating Force: 2 oz min.

Normal Force: 6.5 oz min.

Physical

Housing: Natural nylon, UL 94V-2

Contact: Brass

Plating: Tin

Wire Range: 0.76mm (.030") to 1.42mm (.056") OD



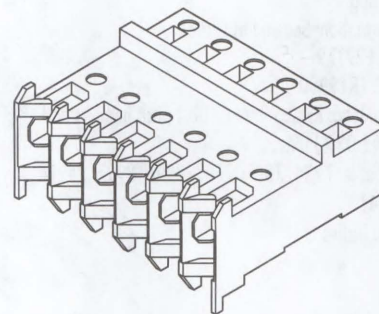
2.54mm (.100") Pitch

KK®

Connector

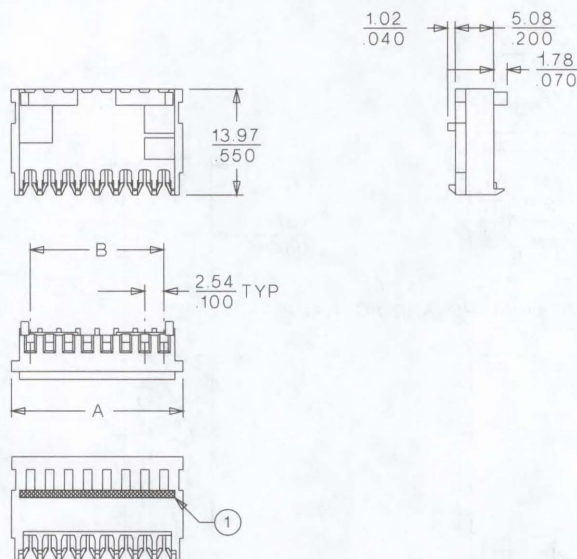
7720S

IDT, High Pressure
Cat Ear Contact System



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



- ① Colored stripe on full length of rib denotes wire gauge. See chart below.

Polarizing Key	Order No.
	15-04-0292

ORDERING INFORMATION AND DIMENSIONS

Color Identification Stripe		
ID Slot Version	Color	Type of Wire Terminated [all wires have a max. insulation diameter of 1.42mm (.056")]
H	Green	24 AWG stranded, 26 AWG solid and fused, and 28 AWG fused
J	Brown	26 AWG stranded, and 28 AWG solid and stranded

Circuits	Version		Dimension	
	H	J	A	B
2	22-50-3025	38-00-2092	7.59 (.299)	2.54 (.100)
3	22-50-3035	38-00-2093	10.13 (.399)	5.08 (.200)
4	22-50-3045	38-00-2094	12.67 (.499)	7.62 (.300)
5	22-50-3055	38-00-2095	15.21 (.599)	10.16 (.400)
6	22-50-3065	38-00-2096	17.79 (.699)	12.70 (.500)
7	22-50-3075	38-00-2097	20.29 (.799)	15.24 (.600)
8	22-50-3085	38-00-2098	22.83 (.899)	17.78 (.700)
9	22-50-3095	38-00-2099	25.37 (.999)	20.32 (.800)
10	22-50-3105	38-00-2100	27.91 (1.099)	22.86 (.900)
11	22-50-3115	38-00-2101	30.45 (1.199)	25.40 (1.000)
12	22-50-3125	38-00-2102	32.99 (1.299)	27.94 (1.100)
13	22-50-3135	38-00-2103	35.53 (1.399)	30.48 (1.200)
14	22-50-3145	38-00-2104	38.07 (1.499)	33.02 (1.300)
15	22-50-3155	38-00-2105	40.61 (1.599)	35.56 (1.400)

Circuits	Version		Dimension	
	H	J	A	B
16	22-50-3165	38-00-2106	43.15 (1.699)	38.10 (1.500)
17	22-50-3175	38-00-2107	45.69 (1.799)	40.64 (1.600)
18	22-50-3185	38-00-2108	48.23 (1.899)	43.18 (1.700)
19	22-50-3195	38-00-2109	50.77 (1.999)	45.72 (1.800)
20	22-50-3205	38-00-2110	53.31 (2.099)	48.26 (1.900)
21	22-50-3215	38-00-2111	55.85 (2.199)	50.80 (2.000)
22	22-50-3225	38-00-2112	58.39 (2.299)	53.34 (2.100)
23	22-50-3235	38-00-2113	60.93 (2.399)	55.88 (2.200)
24	22-50-3245	38-00-2114	63.47 (2.499)	58.42 (2.300)
25	22-50-3255	38-00-2115	66.01 (2.599)	60.96 (2.400)
26	22-50-3265	38-00-2116	68.55 (2.699)	63.50 (2.500)
27	22-50-3275	38-00-2117	71.09 (2.799)	66.04 (2.600)
28	22-50-3285	38-00-2118	73.63 (2.899)	68.58 (2.700)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked PC tails
- .240, .295 and .320" standard mating lengths
- Surface Mount Compatible
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

Tooling Information: See cutting tool section

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720, 7859, 7880, 40556, 70066A, 70400A, 70430, 90147 and 90148

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

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

Contact: Phosphor Bronze, 0.64mm (.025") square

Plating: See Table

Operating Temperature: 0 to +75°C



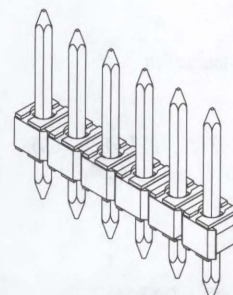
2.54mm (.100") Pitch

KK®

Breakaway Header

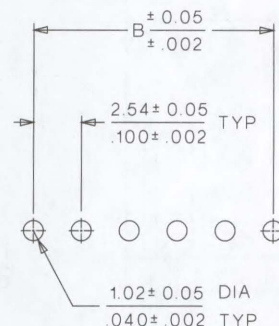
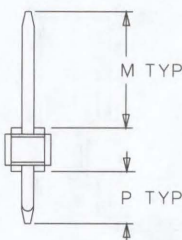
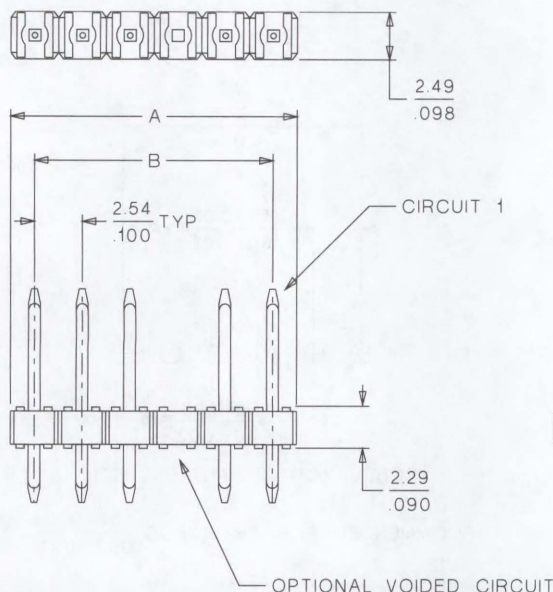
42375

Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.57 ± 0.18
 $.062 \pm .007$

ORDERING INFORMATION AND DIMENSIONS

Plating Option	Order No.					
	M = 6.09mm (.240") P = 3.18mm (.125")	M = 6.09mm (.240") P = 3.43mm (.135") Kinked PC Tail	M = 7.49mm (.295") P = 3.05mm (.120")	M = 7.49mm (.295") P = 3.43mm (.135") Kinked PC Tail	M = 8.13mm (.320") P = 3.05mm (.130")	M = 8.13mm (.320") P = 3.43mm (.135") Kinked PC Tail
Tin	• 22-28-4XX0	22-28-5XX0	• 22-28-4XX2	22-28-5XX2	• 22-28-4XX1	22-28-5XX1
15μ" select Gold	• 22-28-4XX3	22-28-5XX3	• 22-28-4XX5	22-28-5XX5	• 22-28-4XX4	22-28-5XX4
30μ" select Gold	• 22-28-4XX6	22-28-5XX6	• 22-28-4XX8	22-28-5XX8	• 22-28-4XX7	22-28-5XX7

Replace XX with no. of circuits, 02-36

Circuits	Dimension	
	A	B
2	5.08 (.200)	2.54 (.100)
3	7.62 (.300)	5.08 (.200)
4	10.16 (.400)	7.62 (.300)
5	12.70 (.500)	10.16 (.400)
6	15.24 (.600)	12.70 (.500)
7	17.78 (.700)	15.24 (.600)
8	20.32 (.800)	17.78 (.700)
9	22.86 (.900)	20.32 (.800)
10	25.40 (1.000)	22.86 (.900)

Circuits	Dimension	
	A	B
11	27.94 (1.100)	25.40 (1.000)
12	30.48 (1.200)	27.94 (1.100)
13	33.02 (1.300)	30.48 (1.200)
14	35.56 (1.400)	33.02 (1.300)
15	38.10 (1.500)	35.56 (1.400)
16	40.64 (1.600)	38.10 (1.500)
17	43.18 (1.700)	40.64 (1.600)
18	45.72 (1.800)	43.18 (1.700)
19	48.26 (1.900)	45.72 (1.800)

Circuits	Dimension	
	A	B
20	50.80 (2.000)	48.26 (1.900)
21	53.34 (2.100)	50.80 (2.000)
22	55.88 (2.200)	53.34 (2.100)
23	58.42 (2.300)	55.88 (2.200)
24	60.96 (2.400)	58.42 (2.300)
25	63.50 (2.500)	60.96 (2.400)
26	66.04 (2.600)	63.50 (2.500)
27	68.58 (2.700)	66.04 (2.600)
28	71.12 (2.800)	68.58 (2.700)

Circuits	Dimension	
	A	B
29	73.66 (2.900)	71.12 (2.800)
30	76.20 (3.000)	73.66 (2.900)
31	78.74 (3.100)	76.20 (3.000)
32	81.28 (3.200)	78.74 (3.100)
33	83.82 (3.300)	81.28 (3.200)
34	86.36 (3.400)	83.82 (3.300)
35	88.90 (3.500)	86.36 (3.400)
36	91.44 (3.600)	88.90 (3.500)

• US Standard Product, available through Molex franchised distributors (36 circuit only)

Note: Dimension M = Mating End and Dimension P = PC Tail

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked PC tails
- .244 or .324" standard mating lengths
- Surface Mount Compatible
- Voided circuits available (contact Molex)
- Various pin lengths available

Reference Information

Product Specification: PS-10-07

Packaging: Bag

Tooling Information: See cutting tool section

UL File No.: E29179

CSA File No.: LR19980

Mates With*: 2695, 4455, 6471, 7720, 7859, 7880, 40556, 70066A, 70400A, 70430, 90147 and 90148

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

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

Contact: Phosphor Bronze, 0.64mm (.025") square

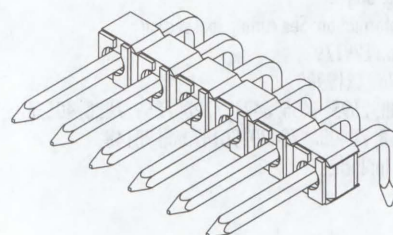
Plating: See Table

Operating Temperature: 0 to +75°C

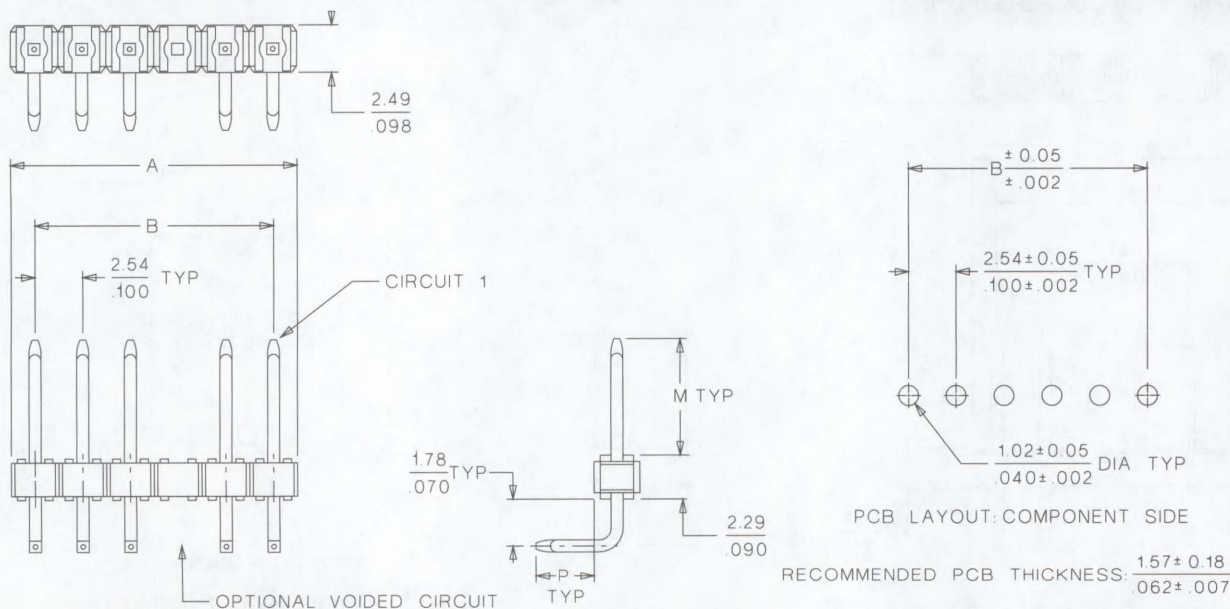
molex® 2.54mm (.100") Pitch KK® Breakaway Header

42377

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Plating Option	Order No.			
	M = 6.20mm (.244") P = 3.05mm (.120")	M = 6.20mm (.244") P = 3.43mm (.135") Kinked PC Tail	M = 8.23mm (.324") P = 3.05mm (.120")	M = 8.23mm (.324") P = 3.43mm (.135") Kinked PC Tail
Tin	• 22-28-8XX0	22-28-9XX0	• 22-28-8XX1	22-28-9XX1
15μ" select Gold	• 22-28-8XX2	22-28-9XX2	• 22-28-8XX3	22-28-9XX3
30μ" select Gold	• 22-28-8XX4	22-28-9XX4	• 22-28-8XX5	22-28-9XX5

Replace XX with no. of circuits, 02-36

Circuits	Dimension		Circuits	Dimension		Circuits	Dimension		Circuits	Dimension	
	A	B		A	B		A	B		A	B
2	5.08 (.200)	2.54 (.100)	11	27.94 (1.100)	25.40 (1.000)	20	50.80 (2.000)	48.26 (1.900)	29	73.66 (2.900)	71.12 (2.800)
3	7.62 (.300)	5.08 (.200)	12	30.48 (1.200)	27.94 (1.100)	21	53.34 (2.100)	50.80 (2.000)	30	76.20 (3.000)	73.66 (2.900)
4	10.16 (.400)	7.62 (.300)	13	33.02 (1.300)	30.48 (1.200)	22	55.88 (2.200)	53.34 (2.100)	31	78.74 (3.100)	76.20 (3.000)
5	12.70 (.500)	10.16 (.400)	14	35.56 (1.400)	33.02 (1.300)	23	58.42 (2.300)	55.88 (2.200)	32	81.28 (3.200)	78.74 (3.100)
6	15.24 (.600)	12.70 (.500)	15	38.10 (1.500)	35.56 (1.400)	24	60.96 (2.400)	58.42 (2.300)	33	83.82 (3.300)	81.28 (3.200)
7	17.78 (.700)	15.24 (.600)	16	40.64 (1.600)	38.10 (1.500)	25	63.50 (2.500)	60.96 (2.400)	34	86.36 (3.400)	83.82 (3.300)
8	20.32 (.800)	17.78 (.700)	17	43.18 (1.700)	40.64 (1.600)	26	66.04 (2.600)	63.50 (2.500)	35	88.90 (3.500)	86.36 (3.400)
9	22.86 (.900)	20.32 (.800)	18	45.72 (1.800)	43.18 (1.700)	27	68.58 (2.700)	66.04 (2.600)	36	91.44 (3.600)	88.90 (3.500)
10	25.40 (1.000)	22.86 (.900)	19	48.26 (1.900)	45.72 (1.800)	28	71.12 (2.800)	68.58 (2.700)			

* US Standard Product, available through Molex franchised distributors (36 circuit only)

* 2695, 4455 and 7880 mate when 42377 is at board edge only

Note: Dimension M = Mating End and Dimension P = PC Tail

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked PC tails
- .361 and .405" standard mating lengths
- Tin and 15 or 30µ" Gold plating
- Voids optional
- Surface Mount Compatible

Reference Information

Product Specification: PS-10-07

Packaging: Bag

Tooling Information: See cutting tool section

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720, 7859, 7880, 40556, 70066A, 70400A, 70430, 90147 and 90148

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

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

Contact: Phosphor Bronze, 0.64mm (.025") square

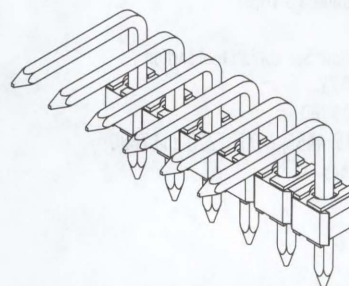
Plating: See Table

Operating Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch KK® Breakaway Header

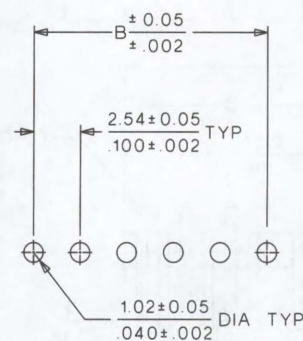
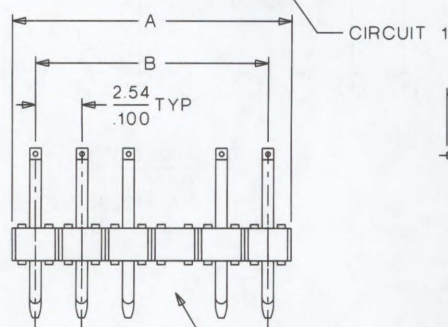
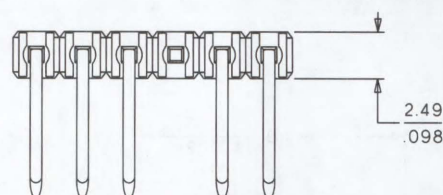
42376

Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: $\frac{1.57 \pm 0.18}{.062 \pm .007}$

ORDERING INFORMATION AND DIMENSIONS

Plating Option	Order No.			
	M = 9.17mm (.361") C = 3.61mm (.142") P = 3.06mm (.120")	M = 9.17mm (.361") C = 3.61mm (.142") P = 3.43mm (.135") Kinked PC Tail	M = 10.29mm (.405") C = 6.30mm (.248") P = 3.06mm (.120")	M = 10.29mm (.405") C = 6.30mm (.248") P = 3.43mm (.135") Kinked PC Tail
Tin	• 22-28-6XX0	22-28-7XX0	• 22-28-6XX1	22-28-7XX1
15µ" select Gold	• 22-28-6XX2	22-28-7XX2	• 22-28-6XX3	22-28-7XX3
30µ" select Gold	• 22-28-6XX4	22-28-7XX4	• 22-28-6XX5	22-28-7XX5

Replace XX with no. of circuits, 02-36

Circuits	Dimension	
	A	B
2	5.08 (.200)	2.54 (.100)
3	7.62 (.300)	5.08 (.200)
4	10.16 (.400)	7.62 (.300)
5	12.70 (.500)	10.16 (.400)
6	15.24 (.600)	12.70 (.500)
7	17.78 (.700)	15.24 (.600)
8	20.32 (.800)	17.78 (.700)
9	22.86 (.900)	20.32 (.800)
10	25.40 (1.000)	22.86 (.900)

Circuits	Dimension	
	A	B
11	27.94 (1.100)	25.40 (1.000)
12	30.48 (1.200)	27.94 (1.100)
13	33.02 (1.300)	30.48 (1.200)
14	35.56 (1.400)	33.02 (1.300)
15	38.10 (1.500)	35.56 (1.400)
16	40.64 (1.600)	38.10 (1.500)
17	43.18 (1.700)	40.64 (1.600)
18	45.72 (1.800)	43.18 (1.700)
19	48.26 (1.900)	45.72 (1.800)

Circuits	Dimension	
	A	B
20	50.80 (2.000)	48.26 (1.900)
21	53.34 (2.100)	50.80 (2.000)
22	55.88 (2.200)	53.34 (2.100)
23	58.42 (2.300)	55.88 (2.200)
24	60.96 (2.400)	58.42 (2.300)
25	63.50 (2.500)	60.96 (2.400)
26	66.04 (2.600)	63.50 (2.500)
27	68.58 (2.700)	66.04 (2.600)
28	71.12 (2.800)	68.58 (2.700)

Circuits	Dimension	
	A	B
29	73.66 (2.900)	71.12 (2.800)
30	76.20 (3.000)	73.66 (2.900)
31	78.74 (3.100)	76.20 (3.000)
32	81.28 (3.200)	78.74 (3.100)
33	83.82 (3.300)	81.28 (3.200)
34	86.36 (3.400)	83.82 (3.300)
35	88.90 (3.500)	86.36 (3.400)
36	91.44 (3.600)	88.90 (3.500)

• US Standard Product, available through Molex franchised distributors (36 circuit only)

Note: Dimension M = Mating End, Dimension C = Mating Height and Dimension P = PC Tail

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked pins for better PC board retention
- Available with end backwalls removed for left to right polarization
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

Tooling Information: See cutting tool section

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

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

Contact: Phosphor Bronze, 0.64mm (.025") square

Plating: See Table

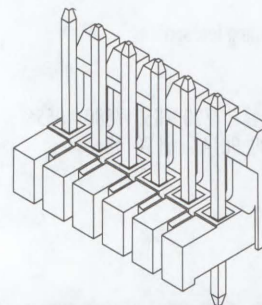
Operating Temperature: 0 to +75°C



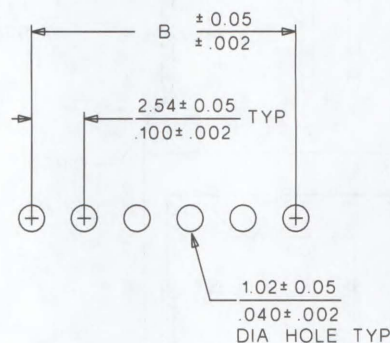
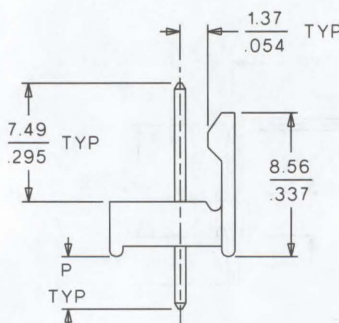
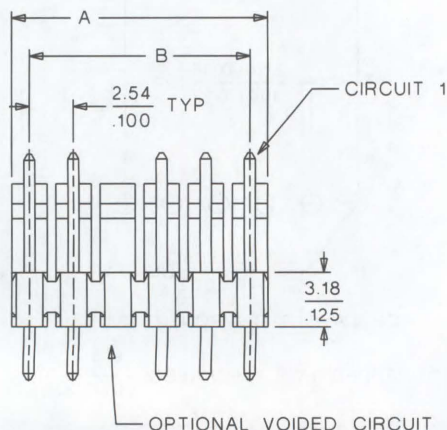
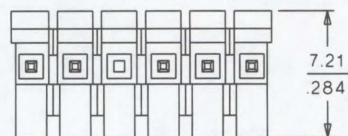
2.54mm (.100") Pitch KK® Breakaway Header

42227

Vertical Friction Lock



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS $\frac{1.57 \pm 0.18}{.062 \pm .007}$

ORDERING INFORMATION AND DIMENSIONS

Standard			With Kinked Tails			With Backwalls Removed		
Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold
• 22-28-0XX0	• 22-28-0XX1	• 22-28-0XX2	22-28-0XX3	22-28-0XX4	22-28-0XX5	22-28-0XX6*	22-28-0XX7*	22-28-0XX8*

Replace XX with no. of circuits, 02-36

Circuits	Dimension		
	A	B	P
2	5.08 (.200)	2.54 (.100)	3.05 (.120)
3	7.62 (.300)	5.08 (.200)	3.05 (.120)
4	10.16 (.400)	7.62 (.300)	3.05 (.120)
5	12.70 (.500)	10.16 (.400)	3.05 (.120)
6	15.24 (.600)	12.70 (.500)	3.05 (.120)
7	17.78 (.700)	15.24 (.600)	3.05 (.120)
8	20.32 (.800)	17.78 (.700)	3.05 (.120)
9	22.86 (.900)	20.32 (.800)	3.05 (.120)
10	25.40 (1.000)	22.86 (.900)	3.05 (.120)
11	27.94 (1.100)	25.40 (1.000)	3.05 (.120)
12	30.48 (1.200)	27.94 (1.100)	3.05 (.120)
13	33.02 (1.300)	30.48 (1.200)	3.05 (.120)

Circuits	Dimension		
	A	B	P
14	35.56 (1.400)	33.02 (1.300)	3.43 (.135)
15	38.10 (1.500)	35.56 (1.400)	3.43 (.135)
16	40.64 (1.600)	38.10 (1.500)	3.43 (.135)
17	43.18 (1.700)	40.64 (1.600)	3.43 (.135)
18	45.72 (1.800)	43.18 (1.700)	3.43 (.135)
19	48.26 (1.900)	45.72 (1.800)	3.43 (.135)
20	50.80 (2.000)	48.26 (1.900)	3.43 (.135)
21	53.34 (2.100)	50.80 (2.000)	3.43 (.135)
22	55.88 (2.200)	53.34 (2.100)	3.43 (.135)
23	58.42 (2.300)	55.88 (2.200)	3.43 (.135)
24	60.96 (2.400)	58.42 (2.300)	3.43 (.135)
25	63.50 (2.500)	60.96 (2.400)	3.43 (.135)

Circuits	Dimension		
	A	B	P
26	66.04 (2.600)	63.50 (2.500)	3.05 (.120)
27	68.58 (2.700)	66.04 (2.600)	3.05 (.120)
28	71.12 (2.800)	68.58 (2.700)	3.05 (.120)
29	73.66 (2.900)	71.12 (2.800)	3.05 (.120)
30	76.20 (3.000)	73.66 (2.900)	3.05 (.120)
31	78.74 (3.100)	76.20 (3.000)	3.05 (.120)
32	81.28 (3.200)	78.74 (3.100)	3.05 (.120)
33	83.82 (3.300)	81.28 (3.200)	3.05 (.120)
34	86.36 (3.400)	83.82 (3.300)	3.05 (.120)
35	88.90 (3.500)	86.36 (3.400)	3.05 (.120)
36	91.44 (3.600)	88.90 (3.500)	3.05 (.120)

* US Standard Product, available through Molex franchised distributors (36 circuit only)

* Available in 3 to 36 circuits only

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked pins for better PC board retention
- Available with end backwalls removed for left to right polarization
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07
 Packaging: Bag
 Tooling Information: See cutting tool section
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 2695, 4455, 6471, 7720 and 7880
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 50K MΩ min.

Mechanical

Durability:
 Tin—25 cycles max.
 Gold—100 cycles max.

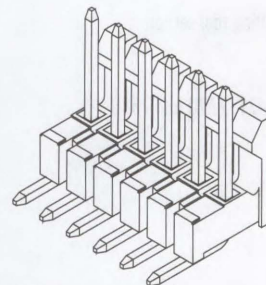
Physical

Housing: Glass-filled nylon, UL 94V-0
 Contact: Phosphor Bronze, 0.64mm (.025") square
 Plating: See Table
 Operating Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch KK® Breakaway Header

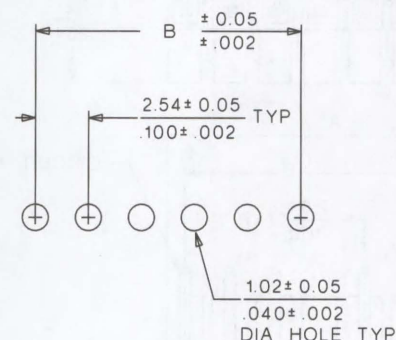
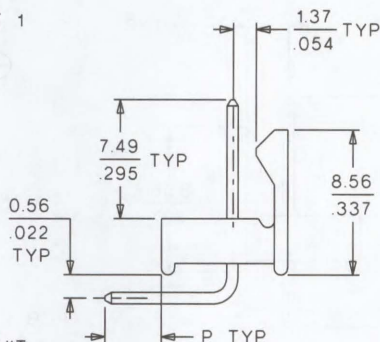
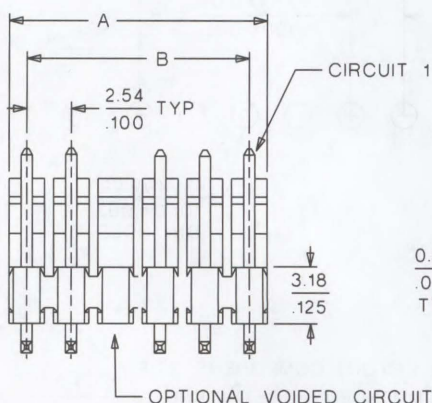
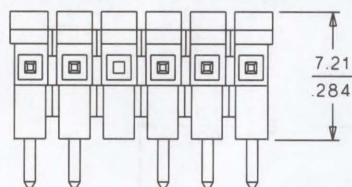
42228

Right Angle Friction Lock



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS

ORDERING INFORMATION AND DIMENSIONS

Order No.								
Standard			With Kinked Tails			With Backwalls Removed		
Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold
• 22-28-1XX0	• 22-28-1XX1	• 22-28-1XX2	22-28-1XX3	22-28-1XX4	22-28-1XX5	22-28-1XX6*	22-28-1XX7*	22-28-1XX8*

Replace XX with no. of circuits, 02-36

Circuits	Dimension		
	A	B	P
2	5.08 (.200)	2.54 (.100)	3.05 (.120)
3	7.62 (.300)	5.08 (.200)	3.05 (.120)
4	10.16 (.400)	7.62 (.300)	3.05 (.120)
5	12.70 (.500)	10.16 (.400)	3.05 (.120)
6	15.24 (.600)	12.70 (.500)	3.05 (.120)
7	17.78 (.700)	15.24 (.600)	3.05 (.120)
8	20.32 (.800)	17.78 (.700)	3.05 (.120)
9	22.86 (.900)	20.32 (.800)	3.05 (.120)
10	25.40 (1.000)	22.86 (.900)	3.05 (.120)
11	27.94 (1.100)	25.40 (1.000)	3.05 (.120)
12	30.48 (1.200)	27.94 (1.100)	3.05 (.120)
13	33.02 (1.300)	30.48 (1.200)	3.05 (.120)

Circuits	Dimension		
	A	B	P
14	35.56 (1.400)	33.02 (1.300)	3.43 (.135)
15	38.10 (1.500)	35.56 (1.400)	3.43 (.135)
16	40.64 (1.600)	38.10 (1.500)	3.43 (.135)
17	43.18 (1.700)	40.64 (1.600)	3.43 (.135)
18	45.72 (1.800)	43.18 (1.700)	3.43 (.135)
19	48.26 (1.900)	45.72 (1.800)	3.43 (.135)
20	50.80 (2.000)	48.26 (1.900)	3.43 (.135)
21	53.34 (2.100)	50.80 (2.000)	3.43 (.135)
22	55.88 (2.200)	53.34 (2.100)	3.43 (.135)
23	58.42 (2.300)	55.88 (2.200)	3.43 (.135)
24	60.96 (2.400)	58.42 (2.300)	3.43 (.135)
25	63.50 (2.500)	60.96 (2.400)	3.43 (.135)

Circuits	Dimension		
	A	B	P
26	66.04 (2.600)	63.50 (2.500)	3.05 (.120)
27	68.58 (2.700)	66.04 (2.600)	3.05 (.120)
28	71.12 (2.800)	68.58 (2.700)	3.05 (.120)
29	73.66 (2.900)	71.12 (2.800)	3.05 (.120)
30	76.20 (3.000)	73.66 (2.900)	3.05 (.120)
31	78.74 (3.100)	76.20 (3.000)	3.05 (.120)
32	81.28 (3.200)	78.74 (3.100)	3.05 (.120)
33	83.82 (3.300)	81.28 (3.200)	3.05 (.120)
34	86.36 (3.400)	83.82 (3.300)	3.05 (.120)
35	88.90 (3.500)	86.36 (3.400)	3.05 (.120)
36	91.44 (3.600)	88.90 (3.500)	3.05 (.120)

• US Standard Product, available through Molex franchised distributors (36 circuit only)

* Available in 3 to 36 circuits only

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked pins for better PC board retention
- Available with end backwalls removed for left to right polarization
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

Tooling Information: See cutting tool section

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

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

Contact: Phosphor Bronze, 0.64mm (.025") square

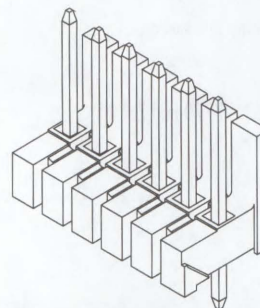
Plating: See Table

Operating Temperature: 0 to +75°C

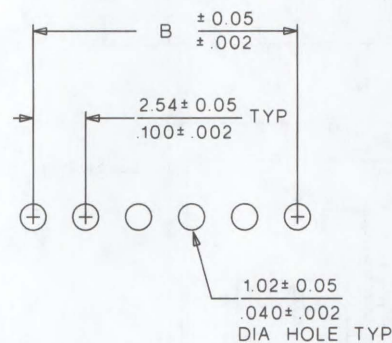
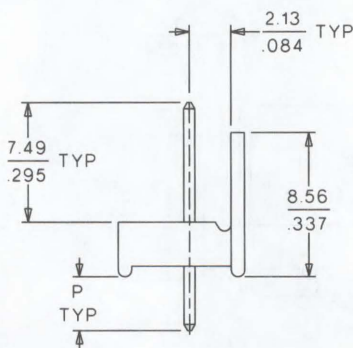
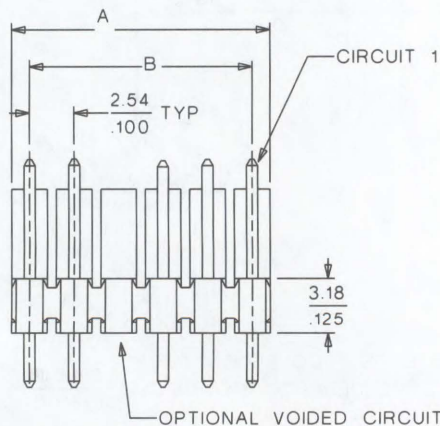
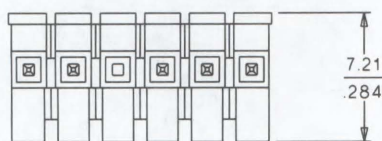
molex® 2.54mm (.100") Pitch KK® Breakaway Header

42225

Vertical Polarizing



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS 1.57 ± 0.18
.062 ± .007

ORDERING INFORMATION AND DIMENSIONS

Standard			Order No.			With Backwalls Removed		
Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold	Tin	15μ" Select Gold	30μ" Select Gold
• 22-28-3XX0	• 22-28-3XX1	• 22-28-3XX2	22-28-3XX3	22-28-3XX4	22-28-3XX5	22-28-3XX6*	22-28-3XX7*	22-28-3XX8*

Replace XX with no. of circuits, 02-36

Circuits	Dimension		
	A	B	P
2	5.08 (.200)	2.54 (.100)	3.05 (.120)
3	7.62 (.300)	5.08 (.200)	3.05 (.120)
4	10.16 (.400)	7.62 (.300)	3.05 (.120)
5	12.70 (.500)	10.16 (.400)	3.05 (.120)
6	15.24 (.600)	12.70 (.500)	3.05 (.120)
7	17.78 (.700)	15.24 (.600)	3.05 (.120)
8	20.32 (.800)	17.78 (.700)	3.05 (.120)
9	22.86 (.900)	20.32 (.800)	3.05 (.120)
10	25.40 (1.000)	22.86 (.900)	3.05 (.120)
11	27.94 (1.100)	25.40 (1.000)	3.05 (.120)
12	30.48 (1.200)	27.94 (1.100)	3.05 (.120)
13	33.02 (1.300)	30.48 (1.200)	3.05 (.120)

Circuits	Dimension		
	A	B	P
14	35.56 (1.400)	33.02 (1.300)	3.43 (.135)
15	38.10 (1.500)	35.56 (1.400)	3.43 (.135)
16	40.64 (1.600)	38.10 (1.500)	3.43 (.135)
17	43.18 (1.700)	40.64 (1.600)	3.43 (.135)
18	45.72 (1.800)	43.18 (1.700)	3.43 (.135)
19	48.26 (1.900)	45.72 (1.800)	3.43 (.135)
20	50.80 (2.000)	48.26 (1.900)	3.43 (.135)
21	53.34 (2.100)	50.80 (2.000)	3.43 (.135)
22	55.88 (2.200)	53.34 (2.100)	3.43 (.135)
23	58.42 (2.300)	55.88 (2.200)	3.43 (.135)
24	60.96 (2.400)	58.42 (2.300)	3.43 (.135)
25	63.50 (2.500)	60.96 (2.400)	3.43 (.135)

Circuits	Dimension		
	A	B	P
26	66.04 (2.600)	63.50 (2.500)	3.05 (.120)
27	68.58 (2.700)	66.04 (2.600)	3.05 (.120)
28	71.12 (2.800)	68.58 (2.700)	3.05 (.120)
29	73.66 (2.900)	71.12 (2.800)	3.05 (.120)
30	76.20 (3.000)	73.66 (2.900)	3.05 (.120)
31	78.74 (3.100)	76.20 (3.000)	3.05 (.120)
32	81.28 (3.200)	78.74 (3.100)	3.05 (.120)
33	83.82 (3.300)	81.28 (3.200)	3.05 (.120)
34	86.36 (3.400)	83.82 (3.300)	3.05 (.120)
35	88.90 (3.500)	86.36 (3.400)	3.05 (.120)
36	91.44 (3.600)	88.90 (3.500)	3.05 (.120)

* US Standard Product, available through Molex franchised distributors (36 circuit only)

* Available in 3 to 36 circuits only

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 36 circuits
- Available with kinked pins for better PC board retention
- Available with end backwalls removed for left to right polarization
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07
 Packaging: Bag
 Tooling Information: See cutting tool section
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 2695, 4455, 6471, 7720 and 7880
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 50K MΩ min.

Mechanical

Durability:
 Tin—25 cycles max.
 Gold—100 cycles max.

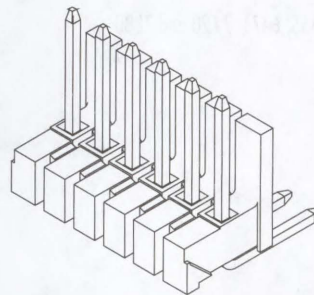
Physical

Housing: Glass-filled nylon, UL 94V-0
 Contact: Phosphor Bronze, 0.64mm (.025") square
 Plating: See Table
 Operating Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch KK® Breakaway Header

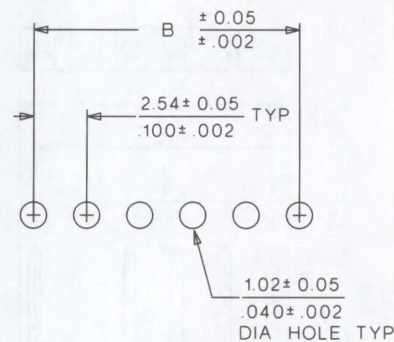
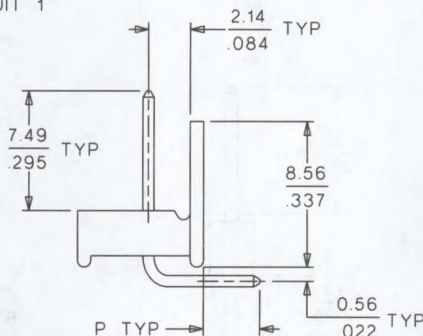
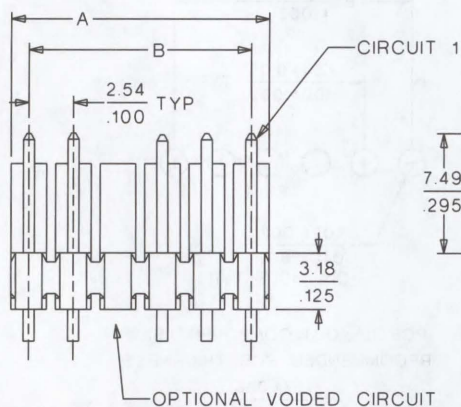
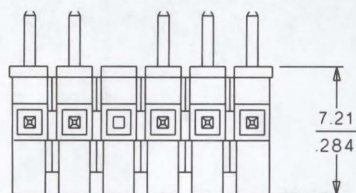
42226

Right Angle Polarizing



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS

ORDERING INFORMATION AND DIMENSIONS

Standard			Order No.			With Backwalls Removed		
Tin	15μ" Select Gold	30μ" Select Gold	With Kinked Tails			Tin	15μ" Select Gold	30μ" Select Gold
• 22-28-2XX0	• 22-28-2XX2	• 22-28-2XX3	22-28-2XX4	22-28-2XX5	22-28-2XX6	22-28-2XX7*	22-28-2XX8*	22-28-2XX9*

Replace XX with no. of circuits, 02-36

Circuits	Dimension		
	A	B	P
2	5.08 (.200)	2.54 (.100)	3.05 (.120)
3	7.62 (.300)	5.08 (.200)	3.05 (.120)
4	10.16 (.400)	7.62 (.300)	3.05 (.120)
5	12.70 (.500)	10.16 (.400)	3.05 (.120)
6	15.24 (.600)	12.70 (.500)	3.05 (.120)
7	17.78 (.700)	15.24 (.600)	3.05 (.120)
8	20.32 (.800)	17.78 (.700)	3.05 (.120)
9	22.86 (.900)	20.32 (.800)	3.05 (.120)
10	25.40 (1.000)	22.86 (.900)	3.05 (.120)
11	27.94 (1.100)	25.40 (1.000)	3.05 (.120)
12	30.48 (1.200)	27.94 (1.100)	3.05 (.120)
13	33.02 (1.300)	30.48 (1.200)	3.05 (.120)

Circuits	Dimension		
	A	B	P
14	35.56 (1.400)	33.02 (1.300)	3.43 (.135)
15	38.10 (1.500)	35.56 (1.400)	3.43 (.135)
16	40.64 (1.600)	38.10 (1.500)	3.43 (.135)
17	43.18 (1.700)	40.64 (1.600)	3.43 (.135)
18	45.72 (1.800)	43.18 (1.700)	3.43 (.135)
19	48.26 (1.900)	45.72 (1.800)	3.43 (.135)
20	50.80 (2.000)	48.26 (1.900)	3.43 (.135)
21	53.34 (2.100)	50.80 (2.000)	3.43 (.135)
22	55.88 (2.200)	53.34 (2.100)	3.43 (.135)
23	58.42 (2.300)	55.88 (2.200)	3.43 (.135)
24	60.96 (2.400)	58.42 (2.300)	3.43 (.135)
25	63.50 (2.500)	60.96 (2.400)	3.43 (.135)

Circuits	Dimension		
	A	B	P
26	66.04 (2.600)	63.50 (2.500)	3.05 (.120)
27	68.58 (2.700)	66.04 (2.600)	3.05 (.120)
28	71.12 (2.800)	68.58 (2.700)	3.05 (.120)
29	73.66 (2.900)	71.12 (2.800)	3.05 (.120)
30	76.20 (3.000)	73.66 (2.900)	3.05 (.120)
31	78.74 (3.100)	76.20 (3.000)	3.05 (.120)
32	81.28 (3.200)	78.74 (3.100)	3.05 (.120)
33	83.82 (3.300)	81.28 (3.200)	3.05 (.120)
34	86.36 (3.400)	83.82 (3.300)	3.05 (.120)
35	88.90 (3.500)	86.36 (3.400)	3.05 (.120)
36	91.44 (3.600)	88.90 (3.500)	3.05 (.120)

* US Standard Product, available through Molex franchised distributors (36 circuit only)

* Available in 3 to 36 circuits only

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- 4030 with voids is 4380 Series
- Various pin lengths available
- Voids circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 2695, 4455, 6471, 7720 and 7880
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 50K MΩ min.

Mechanical

Durability:
 Tin—25 cycles max.
 Gold—100 cycles max.

Physical

Housing: Red nylon, UL 94V-0
 Contact: Brass, 0.64mm (.025") square
 Plating: See Table
 Operating Temperature: 0 to +75°C



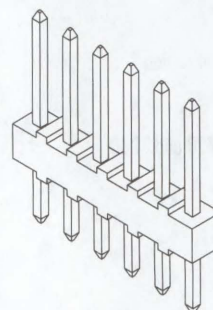
2.54mm (.100") Pitch

KK®

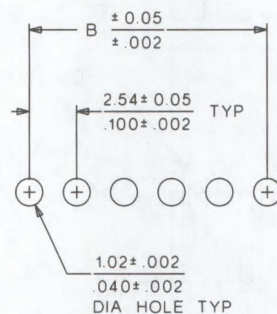
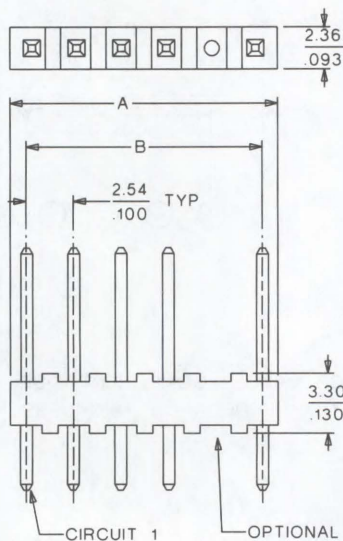
Solid Header

4030

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS:

1.57 ± 0.18
 .062 ± .007

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	4030		A	B
	Tin	Gold		
2	• 22-03-2021	• 22-10-2021	4.83 (.190)	2.54 (.100)
3	• 22-03-2031	• 22-10-2031	7.37 (.290)	5.08 (.200)
4	• 22-03-2041	• 22-10-2041	9.91 (.390)	7.62 (.300)
5	• 22-03-2051	• 22-10-2051	12.45 (.490)	10.16 (.400)
6	• 22-03-2061	• 22-10-2061	14.99 (.590)	12.70 (.500)
7	• 22-03-2071	• 22-10-2071	17.53 (.690)	15.24 (.600)
8	• 22-03-2081	• 22-10-2081	20.07 (.790)	17.78 (.700)
9	• 22-03-2091	• 22-10-2091	22.61 (.890)	20.32 (.800)
10	• 22-03-2101	• 22-10-2101	25.15 (.990)	22.86 (.900)
11	• 22-03-2111	• 22-10-2111	27.69 (1.090)	25.40 (1.000)
12	• 22-03-2121	• 22-10-2121	30.23 (1.190)	27.94 (1.100)
13	• 22-03-2131	• 22-10-2131	32.77 (1.290)	30.48 (1.200)
14	• 22-03-2141	• 22-10-2141	35.31 (1.390)	33.02 (1.300)
15	• 22-03-2151	• 22-10-2151	37.85 (1.490)	35.56 (1.400)

Circuits	Order No.		Dimension	
	4030		A	B
	Tin	Gold		
16	• 22-03-2161	• 22-10-2161	40.39 (1.590)	38.10 (1.500)
17	• 22-03-2171	• 22-10-2171	42.93 (1.690)	40.64 (1.600)
18	• 22-03-2181	• 22-10-2181	45.47 (1.790)	43.18 (1.700)
19	• 22-03-2191	• 22-10-2191	48.01 (1.890)	45.72 (1.800)
20	• 22-03-2201	• 22-10-2201	50.55 (1.990)	48.26 (1.900)
21	• 22-03-2211	• 22-10-2211	53.09 (2.090)	50.80 (2.000)
22	• 22-03-2221	• 22-10-2221	55.63 (2.190)	53.34 (2.100)
23	• 22-03-2231	• 22-10-2231	58.17 (2.290)	55.88 (2.200)
24	• 22-03-2241	• 22-10-2241	60.71 (2.390)	58.42 (2.300)
25	• 22-03-2251	• 22-10-2251	63.25 (2.490)	60.96 (2.400)
26	• 22-03-2261	• 22-10-2261	65.79 (2.590)	63.50 (2.500)
27	• 22-03-2271	• 22-10-2271	68.33 (2.690)	66.04 (2.600)
28	• 22-03-2281	• 22-10-2281	70.87 (2.790)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: In the Far East, the polyester product has different Engineering No. and Order No.

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Various pin lengths available
- Voids circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07
 Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: 2695, 4455, 6471, 7720 and 7880
 Designed In: Inches

Electrical

Voltage: 250V
 Current: 4.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 50K MΩ min.

Mechanical

Durability:
 Tin—25 cycles max.
 Gold—100 cycles max.

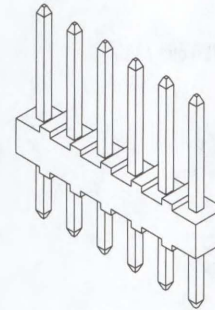
Physical

Housing: White glass-filled nylon, UL 94V-0
 Contact: Brass, 0.64mm (.025") square
 Plating: See Table
 Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch
KK®
Solid Header

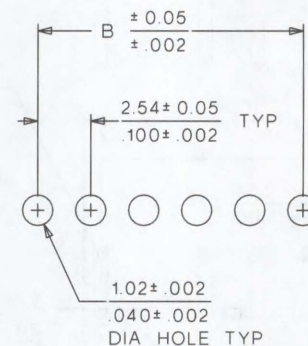
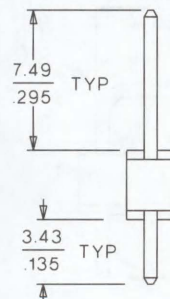
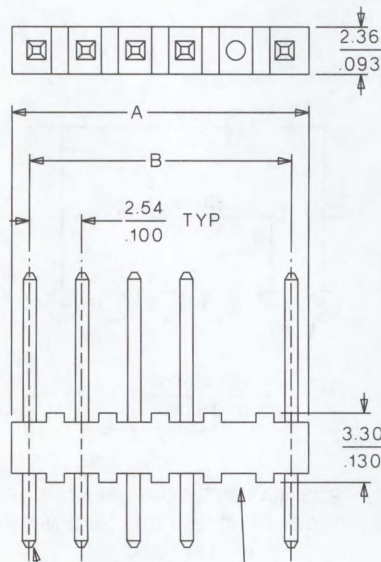
42152

Vertical



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
 RECOMMENDED PCB THICKNESS:
 1.57 ± 0.18

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
2	22-66-2020	22-66-3020	22-10-7028	4.83 (.190)	2.54 (.100)
3	22-66-2030	22-66-3030	22-10-7038	7.37 (.290)	5.08 (.200)
4	22-66-2040	22-66-3040	22-10-7048	9.91 (.390)	7.62 (.300)
5	22-66-2050	22-66-3050	22-10-7058	12.45 (.490)	10.16 (.400)
6	22-66-2060	22-66-3060	22-10-7068	14.99 (.590)	12.70 (.500)
7	22-66-2070	22-66-3070	22-10-7078	17.53 (.690)	15.24 (.600)
8	22-66-2080	22-66-3080	22-10-7088	20.07 (.790)	17.78 (.700)
9	22-66-2090	22-66-3090	22-10-7098	22.61 (.890)	20.32 (.800)
10	22-66-2100	22-66-3100	22-10-7108	25.15 (.990)	22.86 (.900)
11	22-66-2110	22-66-3110	22-10-7118	27.69 (1.090)	25.40 (1.000)
12	22-66-2120	22-66-3120	22-10-7128	30.23 (1.190)	27.94 (1.100)
13	22-66-2130	22-66-3130	22-10-7138	32.77 (1.290)	30.48 (1.200)
14	22-66-2140	22-66-3140	22-10-7148	35.31 (1.390)	33.02 (1.300)
15	22-66-2150	22-66-3150	22-10-7158	37.85 (1.490)	35.56 (1.400)

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
16	22-66-2160	22-66-3160	22-10-7168	40.39 (1.590)	38.10 (1.500)
17	22-66-2170	22-66-3170	22-10-7178	42.93 (1.690)	40.64 (1.600)
18	22-66-2180	22-66-3180	22-10-7188	45.47 (1.790)	43.18 (1.700)
19	22-66-2190	22-66-3190	22-10-7198	48.01 (1.890)	45.72 (1.800)
20	22-66-2200	22-66-3200	22-10-7208	50.55 (1.990)	48.26 (1.900)
21	22-66-2210	22-66-3210	22-10-7218	53.09 (2.090)	50.80 (2.000)
22	22-66-2220	22-66-3220	22-10-7228	55.63 (2.190)	53.34 (2.100)
23	22-66-2230	22-66-3230	22-10-7238	58.17 (2.290)	55.88 (2.200)
24	22-66-2240	22-66-3240	22-10-7248	60.71 (2.390)	58.42 (2.300)
25	22-66-2250	22-66-3250	22-10-7258	63.25 (2.490)	60.96 (2.400)
26	22-66-2260	22-66-3260	22-10-7268	65.79 (2.590)	63.50 (2.500)
27	22-66-2270	22-66-3270	22-10-7278	68.33 (2.690)	66.04 (2.600)
28	22-66-2280	22-66-3280	22-10-7288	70.87 (2.790)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: In the Far East, the polyester product has different Engineering No. and Order No.

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- 4094 with voids is 4494 Series
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

Housing: Red nylon, UL 94V-0

Contact: Brass, 0.64mm (.025") square

Plating: See Table

Operating Temperature: 0 to +75°C



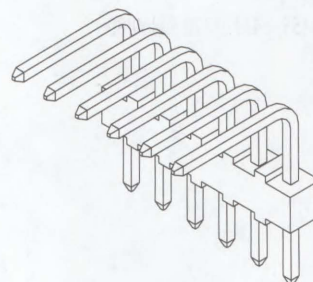
2.54mm (.100") Pitch

KK®

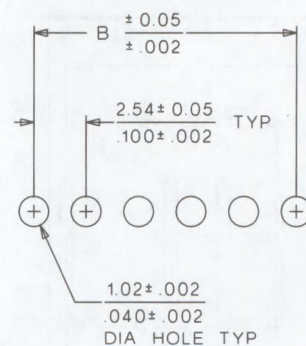
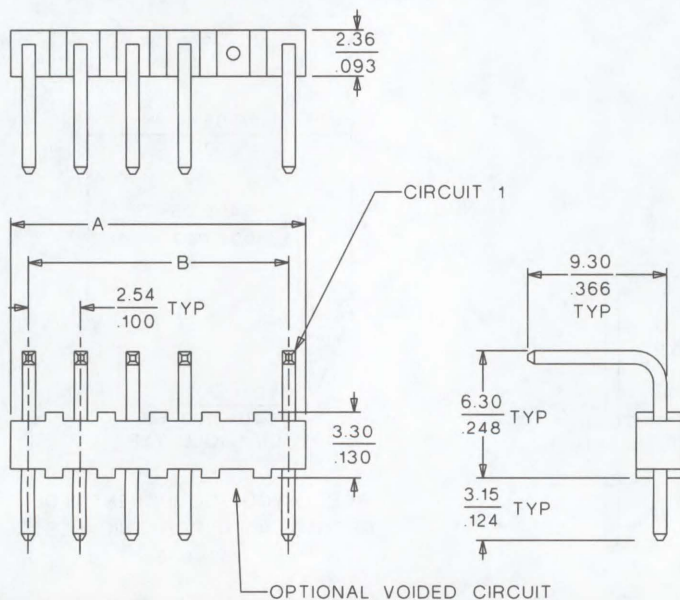
Solid Header

4094

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

$$\frac{1.57 \pm 0.18}{.062 \pm .007}$$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	4094		A	B
	Tin	Gold		
2	• 22-05-2021	• 22-12-2021	4.83 (.190)	2.54 (.100)
3	• 22-05-2031	• 22-12-2031	7.37 (.290)	5.08 (.200)
4	• 22-05-2041	• 22-12-2041	9.91 (.390)	7.62 (.300)
5	• 22-05-2051	• 22-12-2051	12.45 (.490)	10.16 (.400)
6	• 22-05-2061	• 22-12-2061	14.99 (.590)	12.70 (.500)
7	• 22-05-2071	• 22-12-2071	17.53 (.690)	15.24 (.600)
8	• 22-05-2081	• 22-12-2081	20.07 (.790)	17.78 (.700)
9	• 22-05-2091	• 22-12-2091	22.61 (.890)	20.32 (.800)
10	• 22-05-2101	• 22-12-2101	25.15 (.990)	22.86 (.900)
11	• 22-05-2111	• 22-12-2111	27.69 (1.090)	25.40 (1.000)
12	• 22-05-2121	• 22-12-2121	30.23 (1.190)	27.94 (1.100)
13	• 22-05-2131	• 22-12-2131	32.77 (1.290)	30.48 (1.200)
14	• 22-05-2141	• 22-12-2141	35.31 (1.390)	33.02 (1.300)

Circuits	Order No.		Dimension	
	4094		A	B
	Tin	Gold		
15	• 22-05-2151	• 22-12-2151	37.85 (1.490)	35.56 (1.400)
16	• 22-05-2161	• 22-12-2161	40.39 (1.590)	38.10 (1.500)
17	• 22-05-2171	• 22-12-2171	42.93 (1.690)	40.64 (1.600)
18	• 22-05-2181	• 22-12-2181	45.47 (1.790)	43.18 (1.700)
19	• 22-05-2191	• 22-12-2191	48.01 (1.890)	45.72 (1.800)
20	• 22-05-2201	• 22-12-2201	50.55 (1.990)	48.26 (1.900)
21	• 22-05-2211	• 22-12-2211	53.09 (2.090)	50.80 (2.000)
22	• 22-05-2221	• 22-12-2221	55.63 (2.190)	53.34 (2.100)
23	• 22-05-2231	• 22-12-2231	58.17 (2.290)	55.88 (2.200)
24	• 22-05-2241	• 22-12-2241	60.71 (2.390)	58.42 (2.300)
25	• 22-05-2251	• 22-12-2251	63.25 (2.490)	60.96 (2.400)
26	• 22-05-2261	• 22-12-2261	65.79 (2.590)	63.50 (2.500)
27	• 22-05-2271	• 22-12-2271	68.33 (2.690)	66.04 (2.600)
28	• 22-05-2281	• 22-12-2281	70.87 (2.790)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: In the Far East the polyester product has different Engineering No. and Order No.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Various pin lengths available
- Voids circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

Housing: White glass-filled nylon, UL 94V-0

Contact: Brass, 0.64mm (.025") square

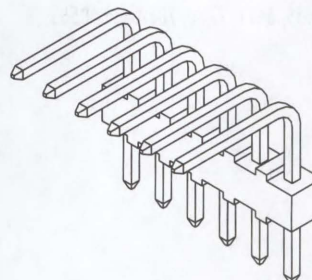
Plating: See Table

Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch
KK®
Solid Header

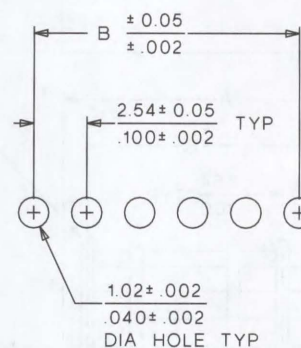
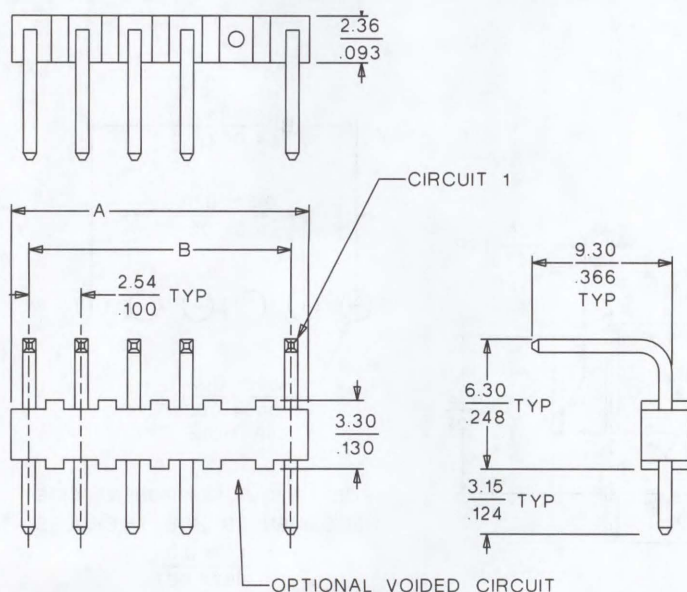
42153

Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

1.57 ±0.18
.062 ±.007

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension				
	42153			A	B
	Tin	Gold	Select Gold		
2	22-67-2020	22-67-3020	22-12-3020	4.83 (.190)	2.54 (.100)
3	22-67-2030	22-67-3030	22-12-3030	7.37 (.290)	5.08 (.200)
4	22-67-2040	22-67-3040	22-12-3040	9.91 (.390)	7.62 (.300)
5	22-67-2050	22-67-3050	22-12-3050	12.45 (.490)	10.16 (.400)
6	22-67-2060	22-67-3060	22-12-3060	14.99 (.590)	12.70 (.500)
7	22-67-2070	22-67-3070	22-12-3070	17.53 (.690)	15.24 (.600)
8	22-67-2080	22-67-3080	22-12-3080	20.07 (.790)	17.78 (.700)
9	22-67-2090	22-67-3090	22-12-3090	22.61 (.890)	20.32 (.800)
10	22-67-2100	22-67-3100	22-12-3100	25.15 (.990)	22.86 (.900)
11	22-67-2110	22-67-3110	22-12-3110	27.69 (1.090)	25.40 (1.000)
12	22-67-2120	22-67-3120	22-12-3120	30.23 (1.190)	27.94 (1.100)
13	22-67-2130	22-67-3130	22-12-3130	32.77 (1.290)	30.48 (1.200)
14	22-67-2140	22-67-3140	22-12-3140	35.31 (1.390)	33.02 (1.300)

Circuits	Dimension				
	42153			A	B
	Tin	Gold	Select Gold		
15	22-67-2150	22-67-3150	22-12-3150	37.85 (1.490)	35.56 (1.400)
16	22-67-2160	22-67-3160	22-12-3160	40.39 (1.590)	38.10 (1.500)
17	22-67-2170	22-67-3170	22-12-3170	42.93 (1.690)	40.64 (1.600)
18	22-67-2180	22-67-3180	22-12-3180	45.47 (1.790)	43.18 (1.700)
19	22-67-2190	22-67-3190	22-12-3190	48.01 (1.890)	45.72 (1.800)
20	22-67-2200	22-67-3200	22-12-3200	50.55 (1.990)	48.26 (1.900)
21	22-67-2210	22-67-3210	22-12-3210	53.09 (2.090)	50.80 (2.000)
22	22-67-2220	22-67-3220	22-12-3220	55.63 (2.190)	53.34 (2.100)
23	22-67-2230	22-67-3230	22-12-3230	58.17 (2.290)	55.88 (2.200)
24	22-67-2240	22-67-3240	22-12-3240	60.71 (2.390)	58.42 (2.300)
25	22-67-2250	22-67-3250	22-12-3250	63.25 (2.490)	60.96 (2.400)
26	22-67-2260	22-67-3260	22-12-3260	65.79 (2.590)	63.50 (2.500)
27	22-67-2270	22-67-3270	22-12-3270	68.33 (2.690)	66.04 (2.600)
28	22-67-2280	22-67-3280	22-12-3280	70.87 (2.790)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: In the Far East the polyester product has different Engineering No. and Order No.

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Kinked solder tails for retention to PCB optional
- Friction lock provides passive lock to connector with ramp
- Various pin lengths available

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720, 7880 and 40555

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability: 25 cycles

Physical

Housing: Polyester, UL 94V-0

Contact: Brass, 0.64mm (.025") square

Plating: Tin

Operating Temperature: 0 to +75°C



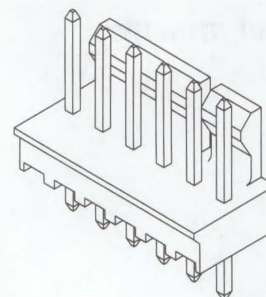
2.54mm (.100") Pitch

KK®

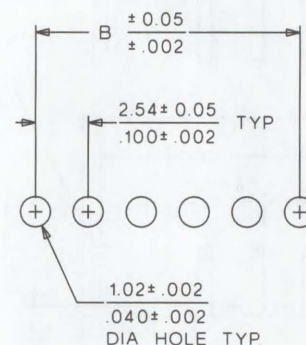
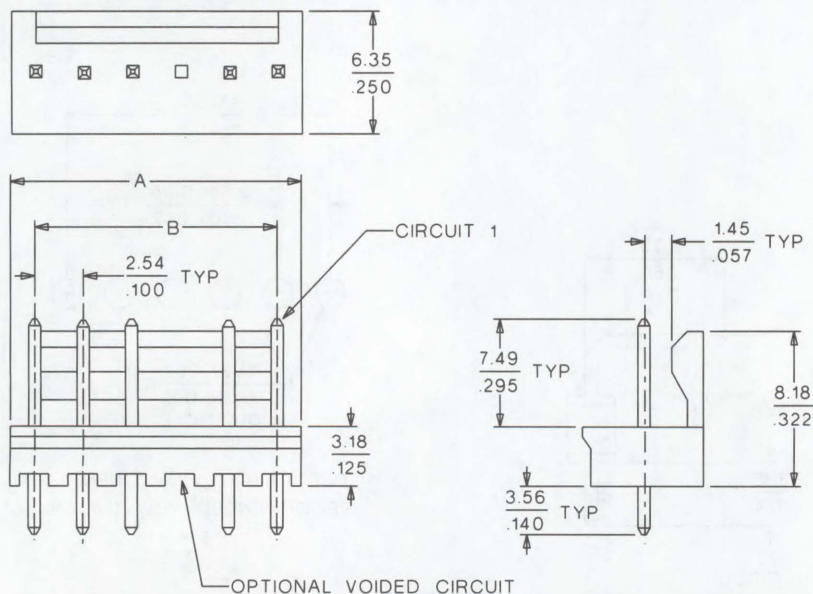
Solid Header

43009

Vertical



CATALOG DRAWING (FOR REFERENCE ONLY)



1.57 ± 0.18
.062 ± .007

ORDERING INFORMATION AND DIMENSIONS

Circuits	Tin Order No.		Dimension	
	Vertical	Kinked	A	B
2	22-23-5024	22-23-5021	4.95 (.195)	2.54 (.100)
3	22-23-5034	22-23-5031	7.49 (.295)	5.08 (.200)
4	22-23-5044	22-23-5041	10.03 (.395)	7.62 (.300)
5	22-23-5054	22-23-5051	12.57 (.495)	10.16 (.400)
6	22-23-5064	22-23-5061	15.11 (.595)	12.70 (.500)
7	22-23-5074	22-23-5071	17.65 (.695)	15.24 (.600)
8	22-23-5084	22-23-5081	20.19 (.795)	17.78 (.700)
9	22-23-5094	22-23-5091	22.73 (.895)	20.32 (.800)
10	22-23-5104	22-23-5101	25.27 (.995)	22.86 (.900)

Note: Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Friction lock provides passive lock to connector with ramp
- Good in high vibration applications
- Various pin lengths available
- Voided circuits available (contact Molex)

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7220 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

Housing: Red nylon, UL 94V-0

Contact: Brass, 0.64mm (.025") square

Plating: See Table

Operating Temperature: 0 to +75°C



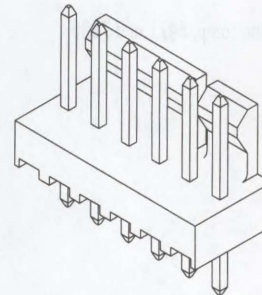
2.54mm (.100") Pitch

KK®

Solid Header

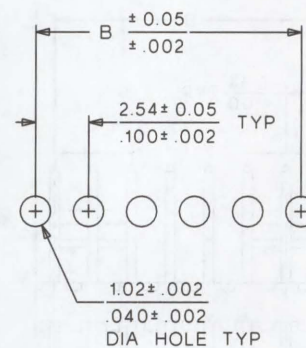
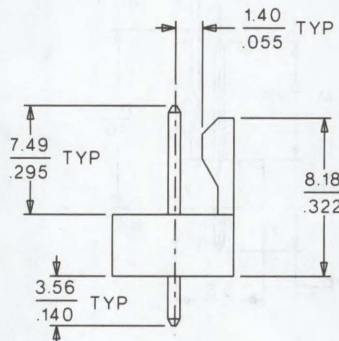
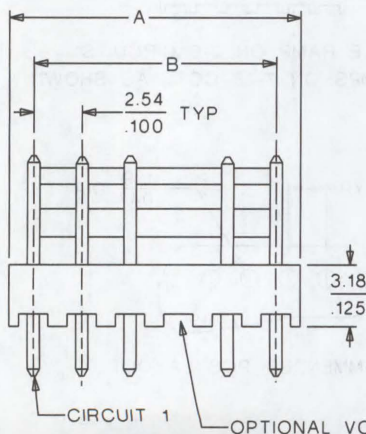
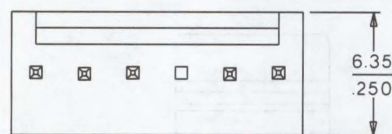
6373

**Vertical
Friction Lock**



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

1.57 ± 0.18
.062 ± .007

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	• 22-23-2021	• 22-11-2022	5.08 (.200)	2.54 (.100)
3	• 22-23-2031	• 22-11-2032	7.62 (.300)	5.08 (.200)
4	• 22-23-2041	• 22-11-2042	10.16 (.400)	7.62 (.300)
5	• 22-23-2051	• 22-11-2052	12.70 (.500)	10.16 (.400)
6	• 22-23-2061	• 22-11-2062	15.24 (.600)	12.70 (.500)
7	• 22-23-2071	• 22-11-2072	17.78 (.700)	15.24 (.600)
8	• 22-23-2081	• 22-11-2082	20.32 (.800)	17.78 (.700)
9	• 22-23-2091	• 22-11-2092	22.86 (.900)	20.32 (.800)
10	• 22-23-2101	• 22-11-2102	25.40 (1.000)	22.86 (.900)
11	• 22-23-2111	• 22-11-2112	27.94 (1.100)	25.40 (1.000)
12	• 22-23-2121	• 22-11-2122	30.48 (1.200)	27.94 (1.100)
13	• 22-23-2131	• 22-11-2132	33.02 (1.300)	30.48 (1.200)
14	• 22-23-2141	• 22-11-2142	35.56 (1.400)	33.02 (1.300)
15	• 22-23-2151	• 22-11-2152	38.10 (1.500)	35.56 (1.400)

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
16	• 22-23-2161	• 22-11-2162	40.64 (1.600)	38.10 (1.500)
17	• 22-23-2171	• 22-11-2172	43.18 (1.700)	40.64 (1.600)
18	• 22-23-2181	• 22-11-2182	45.72 (1.800)	43.18 (1.700)
19	• 22-23-2191	• 22-11-2192	48.26 (1.900)	45.72 (1.800)
20	• 22-23-2201	• 22-11-2202	50.80 (2.000)	48.26 (1.900)
21	• 22-23-2211	• 22-11-2212	53.34 (2.100)	50.80 (2.000)
22	• 22-23-2221	• 22-11-2222	55.88 (2.200)	53.34 (2.100)
23	• 22-23-2231	• 22-11-2232	58.42 (2.300)	55.88 (2.200)
24	• 22-23-2241	• 22-11-2242	60.96 (2.400)	58.42 (2.300)
25	• 22-23-2251	• 22-11-2252	63.50 (2.500)	60.96 (2.400)
26	• 22-23-2261	• 22-11-2262	66.04 (2.600)	63.50 (2.500)
27	• 22-23-2271	• 22-11-2272	68.58 (2.700)	66.04 (2.600)
28	• 22-23-2281	• 22-11-2282	71.12 (2.800)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Friction lock provides passive lock to connector with ramp
- Good in high vibration applications
- Higher backwall than the 6373 Series
- Various pin lengths available

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695 with locking ramp, 6471 and 7880

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Physical

Housing: Nylon, UL 94V-0

Contact: Brass, 0.64mm (.025") square

Plating: See Table

Operating Temperature: 0 to +75°C



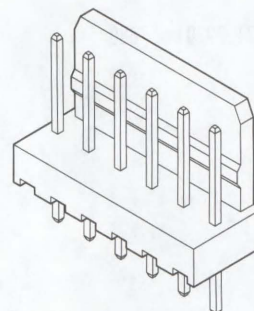
2.54mm (.100") Pitch

KK®

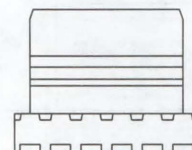
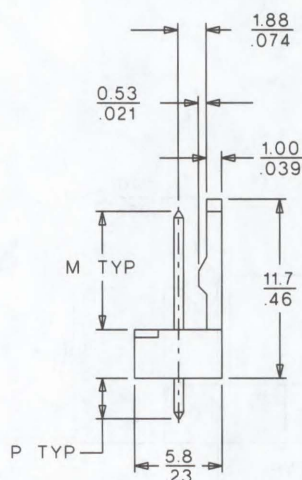
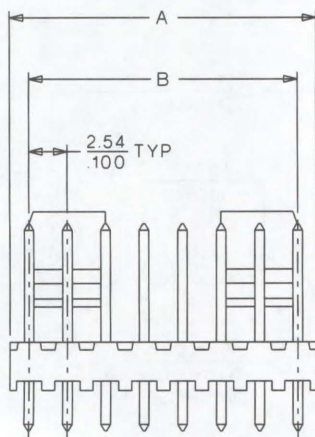
Header

6410

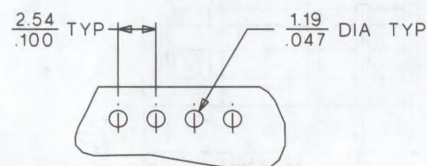
Vertical
Friction Lock



CATALOG DRAWING (FOR REFERENCE ONLY)



SINGLE RAMP ON 2-6 CIRCUITS
TWO RAMPS ON 7-28 CCTS, AS SHOWN.



RECOMMENDED PCB LAYOUT

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	Tin	Gold	A	B	M	P
2	22-27-2021	22-29-2021	5.08 (.200)	2.54 (.100)	7.50 (.295)	3.56 (.140)
3	22-27-2031	22-29-2031	7.62 (.300)	5.08 (.200)	7.50 (.295)	3.56 (.140)
4	22-27-2041	22-29-2041	10.16 (.400)	7.62 (.300)	7.50 (.295)	3.56 (.140)
5	22-27-2051	22-29-2051	12.70 (.500)	10.16 (.400)	7.50 (.295)	3.56 (.140)
6	22-27-2061	22-29-2061	15.24 (.600)	12.70 (.500)	7.50 (.295)	3.56 (.140)
7	22-27-2071	22-29-2071	17.78 (.700)	15.24 (.600)	7.50 (.295)	3.56 (.140)
8	22-27-2081	22-29-2081	20.32 (.800)	17.78 (.700)	7.50 (.295)	3.56 (.140)
9	22-27-2091	22-29-2091	22.86 (.900)	20.32 (.800)	7.50 (.295)	3.56 (.140)
10	22-27-2101	22-29-2101	25.40 (1.000)	22.86 (.900)	7.50 (.295)	3.56 (.140)
11	22-27-2111	22-29-2111	27.94 (1.100)	25.40 (1.000)	7.50 (.295)	3.56 (.140)
12	22-27-2121	22-29-2121	30.48 (1.200)	27.94 (1.100)	7.50 (.295)	3.56 (.140)
13	22-27-2131	22-29-2131	33.02 (1.300)	30.48 (1.200)	7.50 (.295)	3.56 (.140)
14	22-27-2141	22-29-2141	35.56 (1.400)	33.02 (1.300)	7.50 (.295)	3.56 (.140)
15	22-27-2151	22-29-2151	38.10 (1.500)	35.56 (1.400)	7.50 (.295)	3.56 (.140)

Circuits	Order No.		Dimension			
	Tin	Gold	A	B	M	P
16	22-27-2161	22-29-2161	40.64 (1.600)	38.10 (1.500)	7.50 (.295)	3.56 (.140)
17	22-27-2171	22-29-2171	43.18 (1.700)	40.64 (1.600)	7.50 (.295)	3.56 (.140)
18	22-27-2181	22-29-2181	45.72 (1.800)	43.18 (1.700)	7.50 (.295)	3.56 (.140)
19	22-27-2191	22-29-2191	48.26 (1.900)	45.72 (1.800)	7.50 (.295)	3.56 (.140)
20	22-27-2201	22-29-2201	50.80 (2.000)	48.26 (1.900)	7.50 (.295)	3.56 (.140)
21	22-27-2211	22-29-2211	53.34 (2.100)	50.80 (2.000)	7.50 (.295)	3.56 (.140)
22	22-27-2221	22-29-2221	55.88 (2.200)	53.34 (2.100)	7.50 (.295)	3.56 (.140)
23	22-27-2231	22-29-2231	58.42 (2.300)	55.88 (2.200)	7.50 (.295)	3.56 (.140)
24	22-27-2241	22-29-2241	60.96 (2.400)	58.42 (2.300)	7.50 (.295)	3.56 (.140)
25	22-27-2251	22-29-2251	63.50 (2.500)	60.96 (2.400)	7.50 (.295)	3.56 (.140)
26	22-27-2261	22-29-2261	66.04 (2.600)	63.50 (2.500)	7.50 (.295)	3.56 (.140)
27	22-27-2271	22-29-2271	68.58 (2.700)	66.04 (2.600)	7.50 (.295)	3.56 (.140)
28	22-27-2281	22-29-2281	71.12 (2.800)	68.58 (2.700)	7.50 (.295)	3.56 (.140)

• US Standard Product, available through Molex franchised distributors

Solid Header

Right Angle Friction Lock

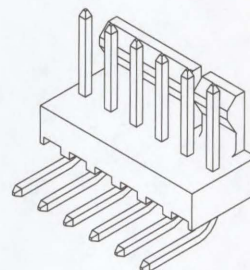
- Sizes 2 to 28 circuits
- Friction lock provides passive lock to connector with ramp
- 7478 with voids is 7832 Series
- Various pin lengths available
- End-to-end stackable
- Edge mount only

Product Specification: PS-10-07
Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 2695, 4455, 6471, 7720 and 7880
Designed In: Inches

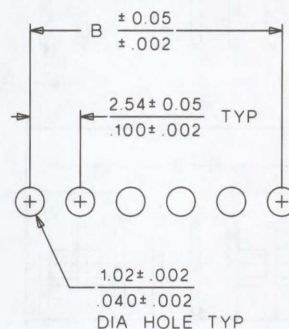
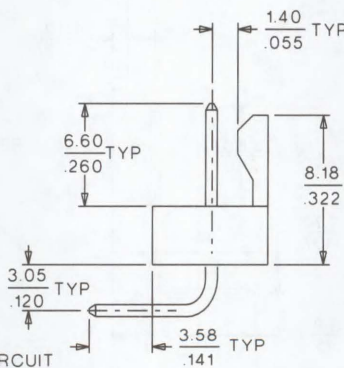
Voltage: 250V
 Current: 4.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1500V
 Insulation Resistance: 50K MΩ min.

Durability:
Tin—25 cycles max.
Gold—100 cycles max.

Housing: Red nylon, UL 94V-0
Contact: Brass, 0.64mm (.025") square
Plating: See Table
Operating Temperature: 0 to +75°C



2.54mm (.100") Pitch



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

$$\frac{1.57 \pm 0.18}{0.062 \pm 0.007}$$

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	● 22-05-3021	● 22-12-2024	5.08 (200)	2.54 (100)
3	● 22-05-3031	● 22-12-2034	7.62 (300)	5.08 (200)
4	● 22-05-3041	● 22-12-2044	10.16 (400)	7.62 (300)
5	● 22-05-3051	● 22-12-2054	12.70 (500)	10.16 (400)
6	● 22-05-3061	● 22-12-2064	15.24 (600)	12.70 (500)
7	● 22-05-3071	● 22-12-2074	17.78 (700)	15.24 (600)
8	● 22-05-3081	● 22-12-2084	20.32 (800)	17.78 (700)
9	● 22-05-3091	● 22-12-2094	22.86 (900)	20.32 (800)
10	● 22-05-3101	● 22-12-2104	25.40 (1,000)	22.86 (900)
11	● 22-05-3111	● 22-12-2114	27.94 (1,100)	25.40 (1,000)
12	● 22-05-3121	● 22-12-2124	30.48 (1,200)	27.94 (1,100)
13	● 22-05-3131	● 22-12-2134	33.02 (1,300)	30.48 (1,200)
14	● 22-05-3141	● 22-12-2144	35.56 (1,400)	33.02 (1,300)
15	● 22-05-3151	● 22-12-2154	38.10 (1,500)	35.56 (1,400)

- US Standard Product, available through Molex franchised distributors

Note: Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
16	● 22-05-3161	● 22-12-2164	40.64 (1.600)	38.10 (1.500)
17	● 22-05-3171	● 22-12-2174	43.18 (1.700)	40.64 (1.600)
18	● 22-05-3181	● 22-12-2184	45.72 (1.800)	43.18 (1.700)
19	● 22-05-3191	● 22-12-2194	48.26 (1.900)	45.72 (1.800)
20	● 22-05-3201	● 22-12-2204	50.80 (2.000)	48.26 (1.900)
21	● 22-05-3211	● 22-12-2214	53.34 (2.100)	50.80 (2.000)
22	● 22-05-3221	● 22-12-2224	55.88 (2.200)	53.34 (2.100)
23	● 22-05-3231	● 22-12-2234	58.42 (2.300)	55.88 (2.200)
24	● 22-05-3241	● 22-12-2244	60.96 (2.400)	58.42 (2.300)
25	● 22-05-3251	● 22-12-2254	63.50 (2.500)	60.96 (2.400)
26	22-05-3261	22-12-2264	66.04 (2.600)	63.50 (2.500)
27	22-05-3271	22-12-2274	68.58 (2.700)	66.04 (2.600)
28	22-05-3281	22-12-2284	71.12 (2.800)	68.58 (2.700)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 28 circuits
- Edge mount only

Reference Information

Mates With: 2695, 6471 and 7720S
Designed In: Inches

Physical

Housing: Natural nylon, UL 94V-0
Contact: Brass, 0.64mm (.025") square
Plating: Tin
Operating Temperature: 0 to +75°C



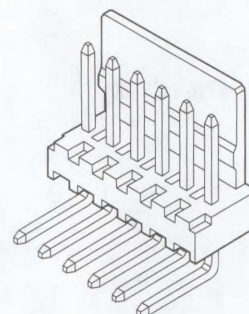
2.54mm (.100") Pitch

KK®

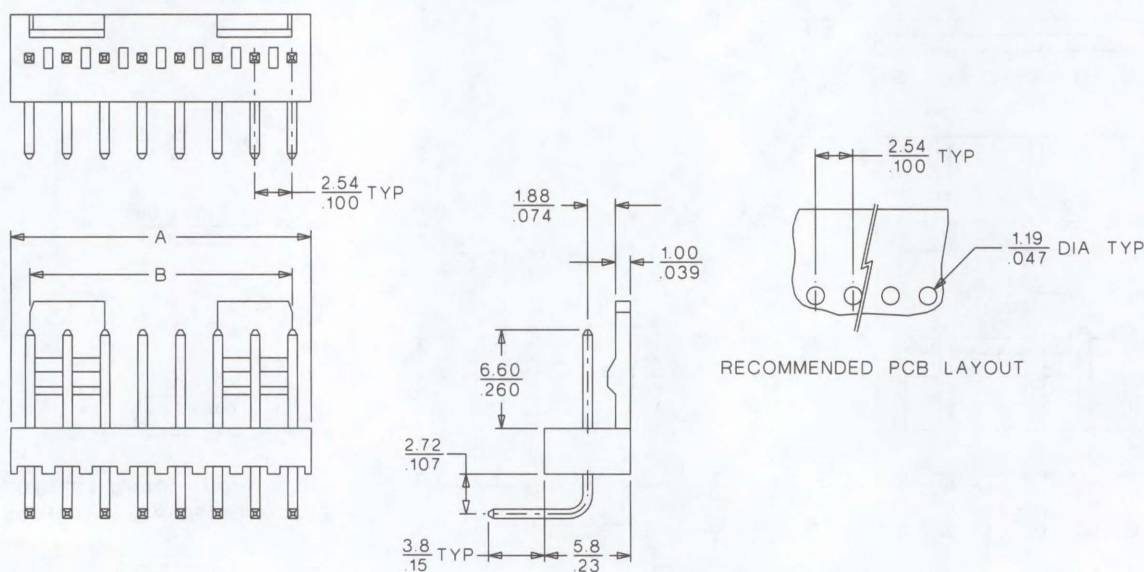
Header

7395

**Right Angle
Friction Lock**



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.	Dimension	
		A	B
2	22-05-7028	5.08 (.200)	2.54 (.100)
3	22-05-7038	7.62 (.300)	5.08 (.200)
4	22-05-7048	10.16 (.400)	7.62 (.300)
5	22-05-7058	12.70 (.500)	10.16 (.400)
6	22-05-7068	15.24 (.600)	12.70 (.500)
7	22-05-7078	17.78 (.700)	15.24 (.600)
8	22-05-7088	20.32 (.800)	17.78 (.700)
9	22-05-7098	22.86 (.900)	20.32 (.800)
10	22-05-7108	25.40 (1.000)	22.86 (.900)
11	22-05-7118	27.94 (1.100)	25.40 (1.000)
12	22-05-7128	30.48 (1.200)	27.94 (1.100)
13	22-05-7138	33.02 (1.300)	30.48 (1.200)
14	22-05-7148	35.56 (1.400)	33.02 (1.300)
15	22-05-7158	38.10 (1.500)	35.56 (1.400)

Circuits	Order No.	Dimension	
		A	B
16	22-05-7168	40.64 (1.600)	38.10 (1.500)
17	22-05-7178	43.18 (1.700)	40.64 (1.600)
18	22-05-7188	45.72 (1.800)	43.18 (1.700)
19	22-05-7198	48.26 (1.900)	45.72 (1.800)
20	22-05-7208	50.80 (2.000)	48.26 (1.900)
21	22-05-7218	53.34 (2.100)	50.80 (2.000)
22	22-05-7228	55.88 (2.200)	53.34 (2.100)
23	22-05-7238	58.42 (2.300)	55.88 (2.200)
24	22-05-7248	60.96 (2.400)	58.42 (2.300)
25	22-05-7258	63.50 (2.500)	60.96 (2.400)
26	22-05-7268	66.04 (2.600)	63.50 (2.500)
27	22-05-7278	68.58 (2.700)	66.04 (2.600)
28	22-05-7288	71.12 (2.800)	68.58 (2.700)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 10 circuits
- Kinked solder tails for retention to PCB
- Staggered tails prevent solder bridging
- Staggered tails provide greater stability
- Friction lock provides passive lock to connector with ramp

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2695, 4455, 6471, 7720, 7880 and 40555

Designed In: Inches

Electrical

Voltage: 250V

Current: 4.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 50K MΩ min.

Mechanical

Durability:

Tin—25 cycles max.

Gold—100 cycles max.

Physical

Housing: White polyester, UL 94V-0

Contact: Brass, 0.64mm (.025") square

Plating: Tin

Operating Temperature: 0 to +75°C



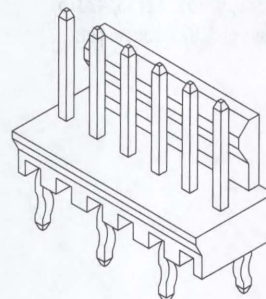
2.54mm (.100") Pitch

KK®

Solid Header

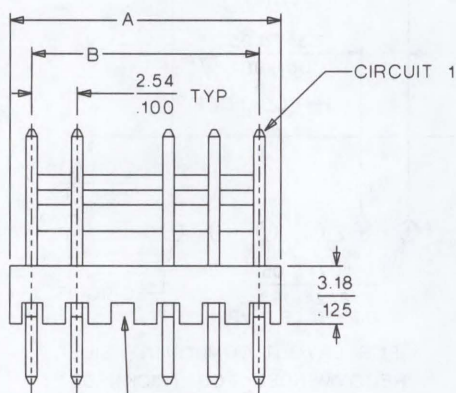
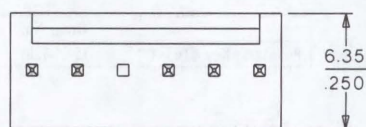
42009

Vertical
Staggered Tail

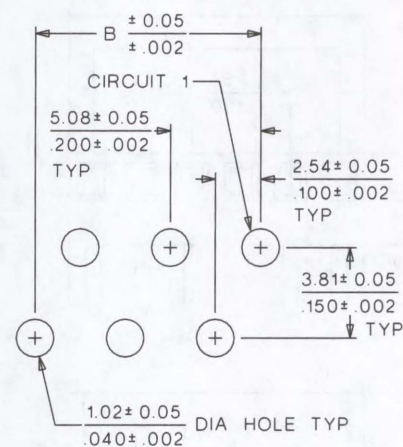
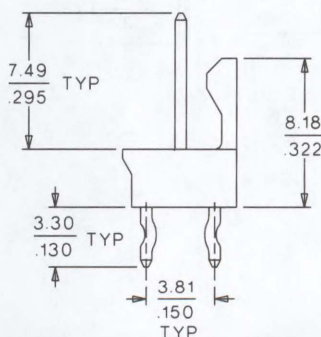


2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



OPTIONAL VOIDED CIRCUIT



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

1.57 ± 0.05
.062 ± .007

ORDERING INFORMATION AND DIMENSIONS

Circuits	Tin Order No.	Dimension	
		A	B
2	22-23-3024	4.95 (.195)	2.54 (.100)
3	22-23-3034	7.49 (.295)	5.08 (.200)
4	22-23-3044	10.03 (.395)	7.62 (.300)
5	22-23-3054	12.57 (.495)	10.16 (.400)
6	22-23-3064	15.11 (.595)	12.70 (.500)
7	22-23-3074	17.65 (.695)	15.24 (.600)
8	22-23-3084	20.19 (.795)	17.78 (.700)
9	22-23-3094	22.73 (.895)	20.32 (.800)
10	22-23-3104	25.27 (.995)	22.86 (.900)

Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- End-to-end stackable
- See 42625 Series for high temperature version
- Thicker board hooks available

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 4380, 42152, 42153, 42375, 42376 and 42377 headers and .025" square pins

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Physical

Housing: Nylon, UL 94V-0

Contact: Brass (contact Molex for Phosphor Bronze)

Plating: See Table

Operating Temperature: 0 to +75°C



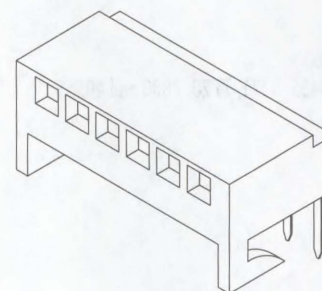
2.54mm (.100") Pitch

KK®

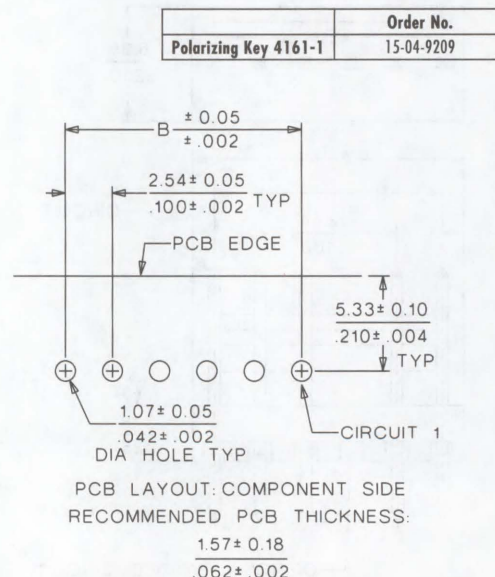
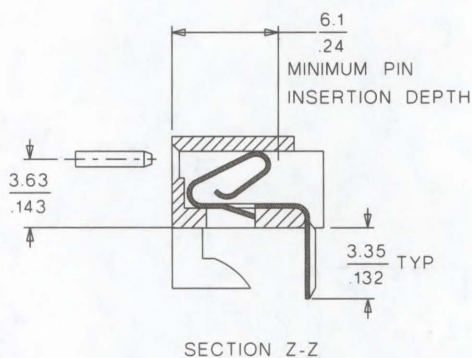
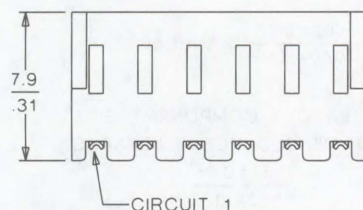
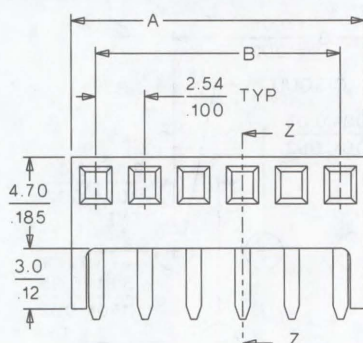
PC Board Connector

4455

Right Angle



CATALOG DRAWING (FOR REFERENCE ONLY)



Polarizing Key 4161-1	Order No.
	15-04-9209

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
2	• 22-15-2026	• 22-16-2021	• 22-16-2020	4.98 (.196)	2.54 (.100)
3	• 22-15-2036	• 22-16-2031	• 22-16-2030	7.52 (.296)	5.08 (.200)
4	• 22-15-2046	• 22-16-2041	• 22-16-2040	10.06 (.396)	7.62 (.300)
5	• 22-15-2056	• 22-16-2051	• 22-16-2050	12.60 (.496)	10.16 (.400)
6	• 22-15-2066	• 22-16-2061	• 22-16-2060	15.14 (.596)	12.70 (.500)
7	• 22-15-2076	• 22-16-2071	• 22-16-2070	17.68 (.696)	15.24 (.600)
8	• 22-15-2086	• 22-16-2081	• 22-16-2080	20.22 (.796)	17.78 (.700)
9	• 22-15-2096	• 22-16-2091	• 22-16-2090	22.76 (.896)	20.32 (.800)
10	• 22-15-2106	• 22-16-2101	• 22-16-2100	25.30 (.996)	22.86 (.900)
11	• 22-15-2116	• 22-16-2111	• 22-16-2110	27.84 (1.096)	25.40 (1.000)
12	• 22-15-2126	• 22-16-2121	• 22-16-2120	30.38 (1.196)	27.94 (1.100)
13	• 22-15-2136	• 22-16-2131	• 22-16-2130	32.92 (1.296)	30.48 (1.200)

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
14	• 22-15-2146	• 22-16-2141	• 22-16-2140	35.46 (1.396)	33.02 (1.300)
15	• 22-15-2156	• 22-16-2151	• 22-16-2150	38.00 (1.496)	35.56 (1.400)
16	• 22-15-2166	• 22-16-2161	• 22-16-2160	40.54 (1.596)	38.10 (1.500)
17	• 22-15-2176	• 22-16-2171	• 22-16-2170	43.08 (1.696)	40.64 (1.600)
18	• 22-15-2186	• 22-16-2181	• 22-16-2180	45.62 (1.796)	43.18 (1.700)
19	• 22-15-2196	• 22-16-2191	• 22-16-2190	48.16 (1.896)	45.72 (1.800)
20	• 22-15-2206	• 22-16-2201	• 22-16-2200	50.70 (1.996)	48.26 (1.900)
21	• 22-15-2216	• 22-16-2211	• 22-16-2210	53.24 (2.096)	50.80 (2.000)
22	• 22-15-2226	• 22-16-2221	• 22-16-2220	55.76 (2.196)	53.34 (2.100)
23	• 22-15-2236	• 22-16-2231	• 22-16-2230	58.32 (2.296)	55.88 (2.200)
24	• 22-15-2246	• 22-16-2241	• 22-16-2240	60.86 (2.396)	58.42 (2.300)
25	• 22-15-2256	• 22-16-2251	• 22-16-2250	63.40 (2.496)	60.96 (2.400)

• US Standard Product, available through Molex franchised distributors

* Current rating is dependent upon PCB traces, Copper weight, solder, etc. (contact Molex for more information)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- End-to-end stackable
- Surface Mount Compatible version of 4455

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 4380, 42152, 42153, 42375,

42376 and 42377 headers and .025" square pins

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Physical

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

Contact: Brass (contact Molex for Phosphor Bronze)

Plating: See Table

Operating Temperature: 0 to +75°C



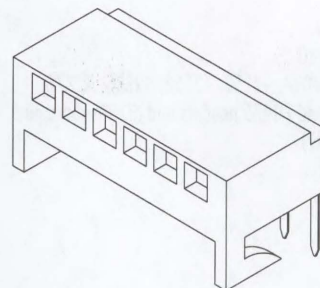
2.54mm (.100") Pitch

KK®

PC Board Connector

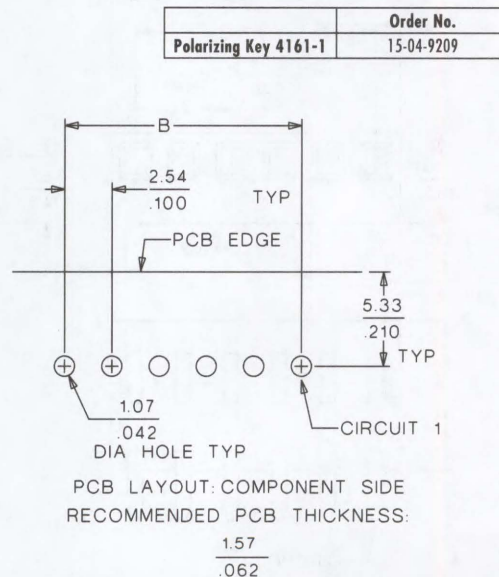
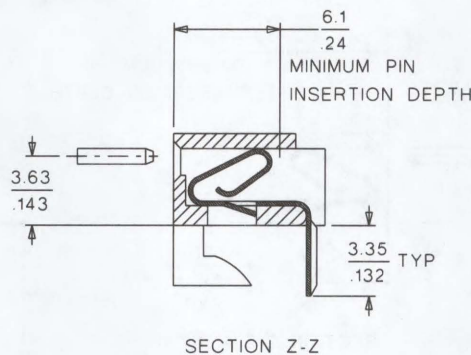
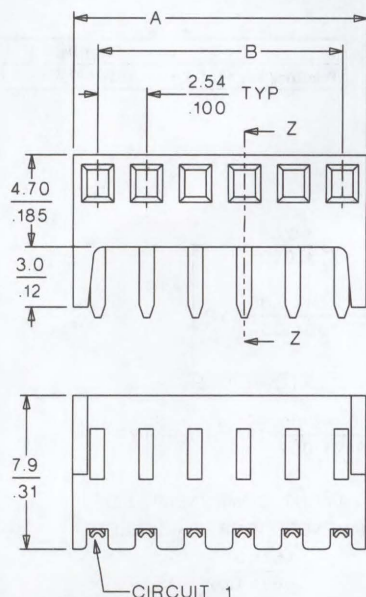
42625

Right Angle



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



Polarizing Key 4161-1	Order No.
	15-04-9209

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Select Gold	A	B
2	22-15-8022	Contact Molex	4.98 (.196)	2.54 (.100)
3	22-15-8032		7.52 (.296)	5.08 (.200)
4	22-15-8042		10.06 (.396)	7.62 (.300)
5	22-15-8052		12.60 (.496)	10.16 (.400)
6	22-15-8062		15.14 (.596)	12.70 (.500)
7	22-15-8072		17.68 (.696)	15.24 (.600)
8	22-15-8082		20.22 (.796)	17.78 (.700)
9	22-15-8092		22.76 (.896)	20.32 (.800)
10	22-15-8102		25.30 (.996)	22.86 (.900)
11	22-15-8112		27.84 (1.096)	25.40 (1.000)
12	22-15-8122		30.38 (1.196)	27.94 (1.100)
13	22-15-8132		32.92 (1.296)	30.48 (1.200)
14	22-15-8142		35.46 (1.396)	33.02 (1.300)
15	22-15-8152		38.00 (1.496)	35.56 (1.400)

* Current rating is dependent upon PCB traces, Copper weight, solder, etc. (contact Molex for more information)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- End-to-end stackable
- Also available without board hooks (see table below)
- See 42625 Series for high temperature version
- Thicker board hooks available

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 42152, 42153, 42375, 42376, 42377, 70021 and 70475 headers and .025" square pins (edge mount only)

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

Mechanical

Contact Retention to Housing: 3.63kg (8 lb) min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g average

Physical

Housing: Nylon, UL 94V-0

Contact: Brass (contact Molex for Phosphor Bronze)

Plating: See Table

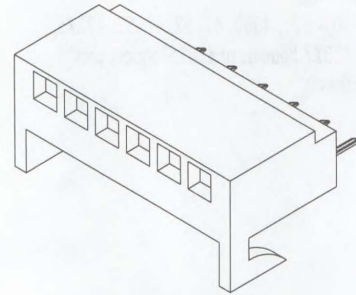
Operating Temperature: 0 to +75°C



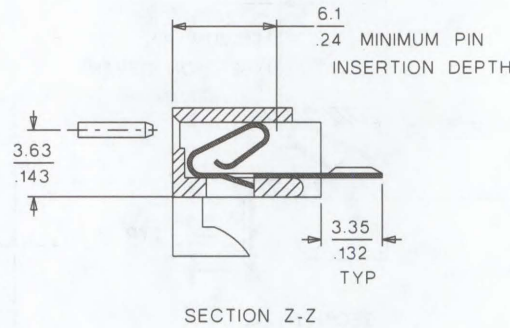
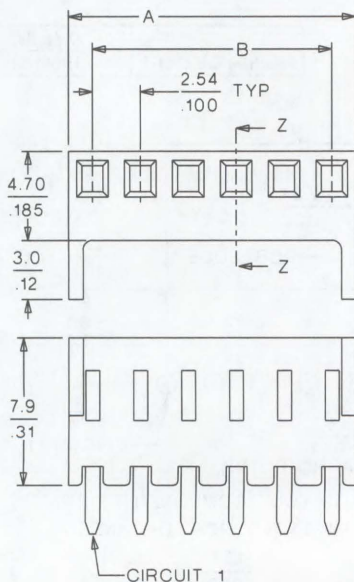
2.54mm (.100") Pitch KK[®] PC Board Connector

4455

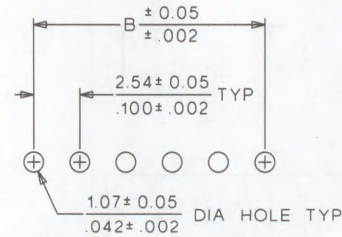
Top Entry



CATALOG DRAWING (FOR REFERENCE ONLY)



Order No.
Polarizing Key 4161-1
15-04-9209



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension	
	Tin		Gold	Select Gold	A	B
	With Hooks	Without Hooks	With Hooks	With Hooks		
2	• 22-02-2025	• 22-02-7023	• 22-18-2023	• 22-18-2021	4.98 (.196)	2.54 (.100)
3	• 22-02-2035	• 22-02-7033	• 22-18-2033	• 22-18-2031	7.52 (.296)	5.08 (.200)
4	• 22-02-2045	• 22-02-7043	• 22-18-2043	• 22-18-2041	10.06 (.396)	7.62 (.300)
5	• 22-02-2055	• 22-02-7053	• 22-18-2053	• 22-18-2051	12.60 (.496)	10.16 (.400)
6	• 22-02-2065	• 22-02-7063	• 22-18-2063	• 22-18-2061	15.14 (.596)	12.70 (.500)
7	• 22-02-2075	• 22-02-7073	• 22-18-2073	• 22-18-2071	17.68 (.696)	15.24 (.600)
8	• 22-02-2085	• 22-02-7083	• 22-18-2083	• 22-18-2081	20.22 (.796)	17.78 (.700)
9	• 22-02-2095	• 22-02-7093	• 22-18-2093	• 22-18-2091	22.76 (.896)	20.32 (.800)
10	• 22-02-2105	• 22-02-7103	• 22-18-2103	• 22-18-2101	25.30 (.996)	22.86 (.900)
11	• 22-02-2115	• 22-02-7113	• 22-18-2113	• 22-18-2111	27.84 (1.096)	25.40 (1.000)
12	• 22-02-2125	• 22-02-7123	• 22-18-2123	• 22-18-2121	30.38 (1.196)	27.94 (1.100)
13	• 22-02-2135	• 22-02-7133	• 22-18-2133	• 22-18-2131	32.92 (1.296)	30.48 (1.200)

Circuits	Order No.				Dimension	
	Tin		Gold	Select Gold	A	B
	With Hooks	Without Hooks	With Hooks	With Hooks		
14	• 22-02-2145	• 22-02-7143	• 22-18-2143	• 22-18-2141	35.46 (1.396)	33.02 (1.300)
15	• 22-02-2155	• 22-02-7153	• 22-18-2153	• 22-18-2151	38.00 (1.496)	35.56 (1.400)
16	• 22-02-2165	• 22-02-7163	• 22-18-2163	• 22-18-2161	40.54 (1.596)	38.10 (1.500)
17	• 22-02-2175	• 22-02-7173	• 22-18-2173	• 22-18-2171	43.08 (1.696)	40.64 (1.600)
18	• 22-02-2185	• 22-02-7183	• 22-18-2183	• 22-18-2181	45.62 (1.796)	43.18 (1.700)
19	• 22-02-2195	• 22-02-7193	• 22-18-2193	• 22-18-2191	48.16 (1.896)	45.72 (1.800)
20	• 22-02-2205	• 22-02-7203	• 22-18-2203	• 22-18-2201	50.70 (1.996)	48.26 (1.900)
21	• 22-02-2215	• 22-02-7213	• 22-18-2213	• 22-18-2211	53.24 (2.096)	50.80 (2.000)
22	• 22-02-2225	• 22-02-7223	• 22-18-2223	• 22-18-2221	55.76 (2.196)	53.34 (2.100)
23	• 22-02-2235	• 22-02-7233	• 22-18-2233	• 22-18-2231	58.32 (2.296)	55.88 (2.200)
24	• 22-02-2245	• 22-02-7243	• 22-18-2243	• 22-18-2241	60.86 (2.396)	58.42 (2.300)
25	• 22-02-2255	• 22-02-7253	• 22-18-2253	• 22-18-2251	63.40 (2.496)	60.96 (2.400)

* US Standard Product, available through Molex franchised distributors

* Current rating is dependent upon PCB traces, Copper weight, solder, etc. (contact Molex for more information)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- End-to-end stackable
- Also available without board hooks
- Surface Mount Compatible version of 4455

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 42152, 42375, 42376, 42377, 70021 and 70475 headers and .025" square pins (edge mount only)

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

Mechanical

Contact Retention to Housing: 3.63kg (8 lb) min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g average

Physical

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

Contact: Brass (contact Molex for Phosphor Bronze)

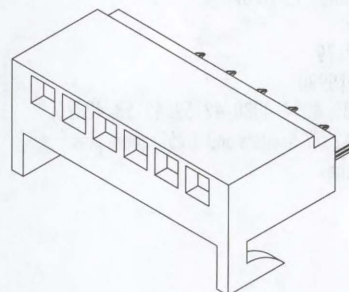
Plating: Contact Molex

Operating Temperature: 0 to +75°C

molex® 2.54mm (.100") Pitch KK® PC Board Connector

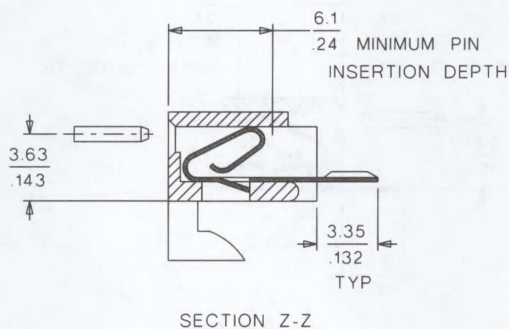
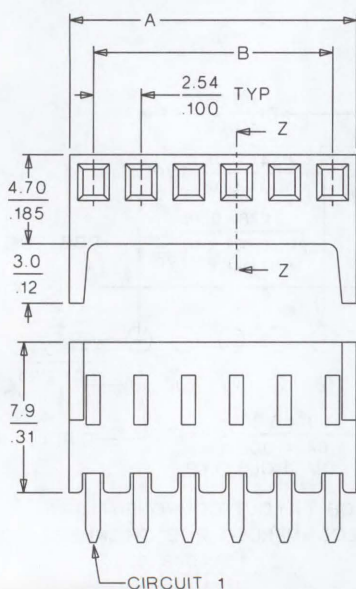
42625

Top Entry

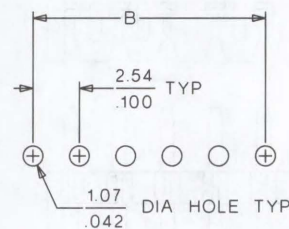


2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



	Order No.
Polarizing Key 4161-1	15-04-9209



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

$$\frac{1.57}{.062}$$

ORDERING INFORMATION AND DIMENSIONS

Circuits	Dimension	
	A	B
2	4.98 (.196)	2.54 (.100)
3	7.52 (.296)	5.08 (.200)
4	10.06 (.396)	7.62 (.300)
5	12.60 (.496)	10.16 (.400)
6	15.14 (.596)	12.70 (.500)
7	17.68 (.696)	15.24 (.600)
8	20.22 (.796)	17.78 (.700)
9	22.76 (.896)	20.32 (.800)
10	25.30 (.996)	22.86 (.900)
11	27.84 (1.096)	25.40 (1.000)
12	30.38 (1.196)	27.94 (1.100)
13	32.92 (1.296)	30.48 (1.200)
14	35.46 (1.396)	33.02 (1.300)
15	38.00 (1.496)	35.56 (1.400)

Note: Contact Molex for ordering information

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 25 circuits
- End-to-end stackable
- Mating header must be long enough to accommodate board thickness
- See 42625 Series for high temperature version
- Thicker board hooks available

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 4380, 42152, 42153, 42375, 42376 and 42377 headers and .025" square pins

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Physical

Housing: Nylon, UL 94V-0

Contact: Brass (contact Molex for Phosphor Bronze)

Plating: See Table

Operating Temperature: 0 to +75°C



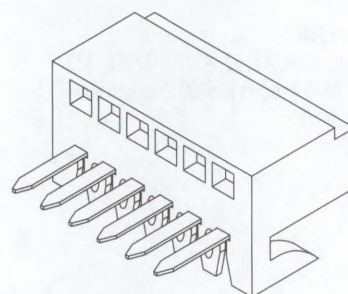
2.54mm (.100") Pitch

KK®

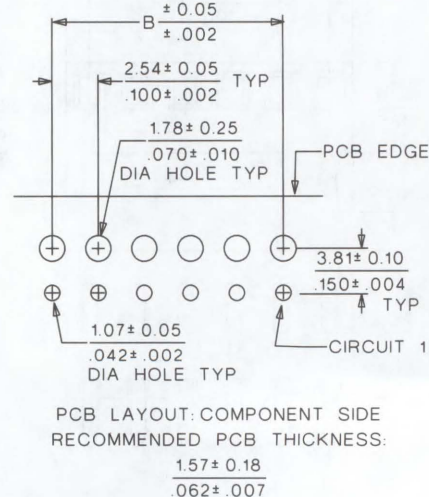
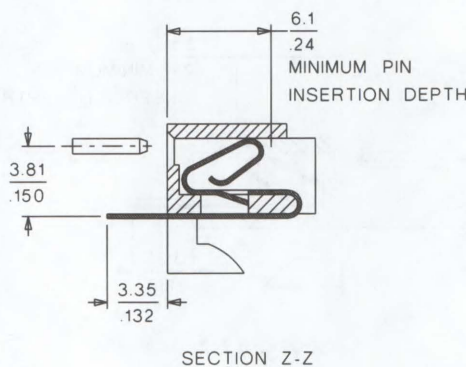
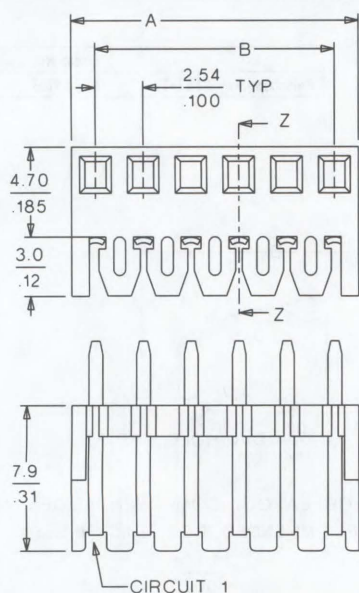
PC Board Connector

4455

Bottom Entry



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
2	• 22-14-2024	• 22-17-2022	• 22-17-3022	4.98 (.196)	2.54 (.100)
3	• 22-14-2034	• 22-17-2032	• 22-17-3032	7.52 (.296)	5.08 (.200)
4	• 22-14-2044	• 22-17-2042	• 22-17-3042	10.06 (.396)	7.62 (.300)
5	• 22-14-2054	• 22-17-2052	• 22-17-3052	12.60 (.496)	10.16 (.400)
6	• 22-14-2064	• 22-17-2062	• 22-17-3062	15.14 (.596)	12.70 (.500)
7	• 22-14-2074	• 22-17-2072	• 22-17-3072	17.68 (.696)	15.24 (.600)
8	• 22-14-2084	• 22-17-2082	• 22-17-3082	20.22 (.796)	17.78 (.700)
9	• 22-14-2094	• 22-17-2092	• 22-17-3092	22.76 (.896)	20.32 (.800)
10	• 22-14-2104	• 22-17-2102	• 22-17-3102	25.30 (.996)	22.86 (.900)
11	• 22-14-2114	• 22-17-2112	• 22-17-3112	27.84 (1.096)	25.40 (1.000)
12	• 22-14-2124	• 22-17-2122	• 22-17-3122	30.38 (1.196)	27.94 (1.100)
13	• 22-14-2134	• 22-17-2132	• 22-17-3132	32.92 (1.296)	30.48 (1.200)

Circuits	Order No.			Dimension	
	Tin	Gold	Select Gold	A	B
14	• 22-14-2144	• 22-17-2142	• 22-17-3142	35.46 (1.396)	33.02 (1.300)
15	• 22-14-2154	• 22-17-2152	• 22-17-3152	38.00 (1.496)	35.56 (1.400)
16	• 22-14-2164	• 22-17-2162	• 22-17-3162	40.54 (1.596)	38.10 (1.500)
17	• 22-14-2174	• 22-17-2172	• 22-17-3172	43.08 (1.696)	40.64 (1.600)
18	• 22-14-2184	• 22-17-2182	• 22-17-3182	45.62 (1.796)	43.18 (1.700)
19	• 22-14-2194	• 22-17-2192	• 22-17-3192	48.16 (1.896)	45.72 (1.800)
20	• 22-14-2204	• 22-17-2202	• 22-17-3202	50.70 (1.996)	48.26 (1.900)
21	• 22-14-2214	• 22-17-2212	• 22-17-3212	53.24 (2.096)	50.80 (2.000)
22	• 22-14-2224	• 22-17-2222	• 22-17-3222	55.76 (2.196)	53.34 (2.100)
23	• 22-14-2234	• 22-17-2232	• 22-17-3232	58.32 (2.296)	55.88 (2.200)
24	• 22-14-2244	• 22-17-2242	• 22-17-3242	60.86 (2.396)	58.42 (2.300)
25	• 22-14-2254	• 22-17-2252	• 22-17-3252	63.40 (2.496)	60.96 (2.400)

* US Standard Product, available through Molex franchised distributors

* Current rating is dependent upon PCB traces, Copper weight, solder, etc. (contact Molex for more information)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 15 circuits
- End-to-end stackable
- Mating header must be long enough to accommodate board thickness
- Surface Mount Compatible version of 4455

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 4380, 42152, 42153, 42375, 42376 and 42377 headers and .025" square pins

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A max.*

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 500K MΩ min.

Mechanical

Mating Force: 199g max.

Unmating Force: 57g min.

Physical

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

Contact: Brass (contact Molex for Phosphor Bronze)

Plating: See Table

Operating Temperature: 0 to +75°C



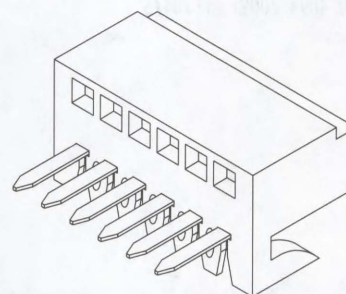
2.54mm (.100") Pitch

KK®

PC Board Connector

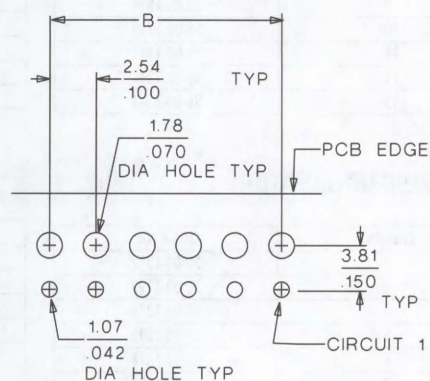
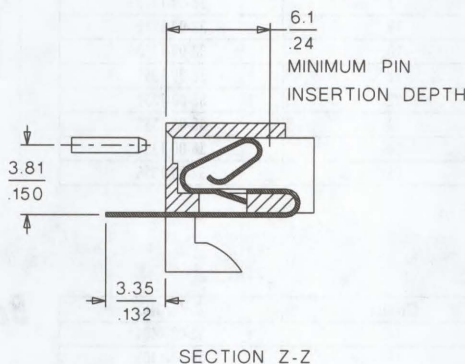
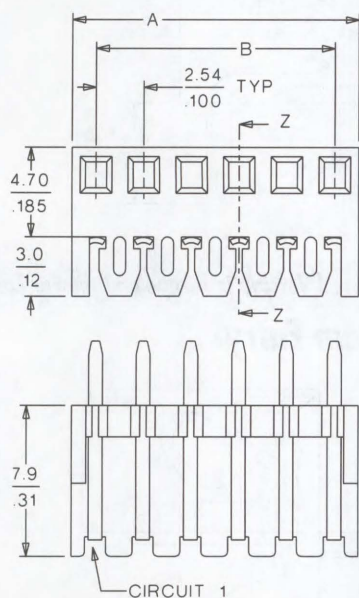
42625

Bottom Entry



2.54mm (.100") Pitch

CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS:

1.57
.062

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Select Gold	A	B
2	22-15-7028	Contact Molex	4.98 (.196)	2.54 (.100)
3	22-15-7038		7.52 (.296)	5.08 (.200)
4	22-15-7048		10.06 (.396)	7.62 (.300)
5	22-15-7058		12.60 (.496)	10.16 (.400)
6	22-15-7068		15.14 (.596)	12.70 (.500)
7	22-15-7078		17.68 (.696)	15.24 (.600)
8	22-15-7088		20.22 (.796)	17.78 (.700)
9	22-15-7098		22.76 (.896)	20.32 (.800)
10	22-15-7108		25.30 (.996)	22.86 (.900)
11	22-15-7118		27.84 (1.096)	25.40 (1.000)
12	22-15-7128		30.38 (1.196)	27.94 (1.100)
13	22-15-7138		32.92 (1.296)	30.48 (1.200)
14	22-15-7148		35.46 (1.396)	33.02 (1.300)
15	22-15-7158		38.00 (1.496)	35.56 (1.400)

* Current rating is dependent upon PCB traces, Copper weight, solder, etc. (contact Molex for more information)

FEATURES AND SPECIFICATIONS

These assemblies are the same as 4455A, B and C versions, except these have higher pressure cat ear contacts on the Bronze terminals.

Reference Information

Product Specification: PS-10-07

Packaging: Tray

UL File No.: E29179

CSA File No.: LR19980

Mates With: 4030, 4094, 70021 and 70475

Designed In: Inches

Electrical

Voltage: 250V

Current: 2.5A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 500K MΩ min.

Mechanical

Contact Retention to Housing: 27.21g min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 300g

Durability: 25 cycles

Physical

Housing: Nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Hot Tin/Lead dip—1μm min.

Operating Temperature: 0 to +75°C



2.54mm (.100") Pitch

KK®

PC Board Connector

4455

With Cat Ear Terminals

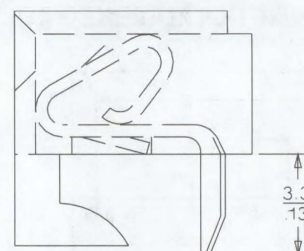
ORDERING INFORMATION

Circuits	Order No.
2	38-00-1332
3	38-00-1333
4	38-00-1334
5	38-00-1335
6	38-00-1336
7	38-00-1337
8	38-00-1338
9	38-00-1339
10	38-00-1340
11	38-00-1341
12	38-00-1342
13	38-00-1343

Circuits	Order No.
14	38-00-1344
15	38-00-1345
16	38-00-1346
17	38-00-1347
18	38-00-1348
19	38-00-1349
20	38-00-1350
21	38-00-1351
22	38-00-1352
23	38-00-1353
24	38-00-1354
25	38-00-1355

Preferred Version in Europe and the Far East

Right Angle



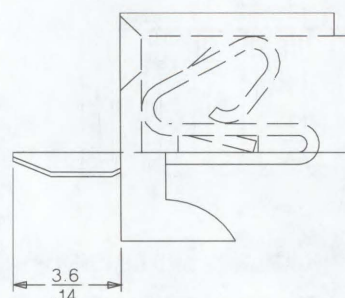
ORDERING INFORMATION

Circuits	Order No.
2	38-00-1392
3	38-00-1393
4	38-00-1394
5	38-00-1395
6	38-00-1396
7	38-00-1397
8	38-00-1398
9	38-00-1399
10	38-00-1400
11	38-00-1401
12	38-00-1402
13	38-00-1403

Circuits	Order No.
14	38-00-1404
15	38-00-1405
16	38-00-1406
17	38-00-1407
18	38-00-1408
19	38-00-1409
20	38-00-1410
21	38-00-1411
22	38-00-1412
23	38-00-1413
24	38-00-1414
25	38-00-1415

Preferred Version in Europe and the Far East

Bottom Entry



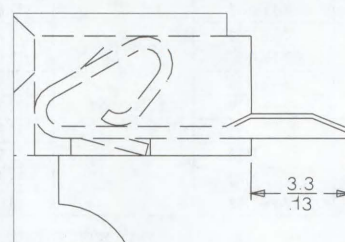
ORDERING INFORMATION

Circuits	Order No.
2	38-00-1422
3	38-00-1423
4	38-00-1424
5	38-00-1425
6	38-00-1426
7	38-00-1427
8	38-00-1428
9	38-00-1429
10	38-00-1430
11	38-00-1431
12	38-00-1432
13	38-00-1433

Circuits	Order No.
14	38-00-1434
15	38-00-1435
16	38-00-1436
17	38-00-1437
18	38-00-1438
19	38-00-1439
20	38-00-1440
21	38-00-1441
22	38-00-1442
23	38-00-1443
24	38-00-1444
25	38-00-1445

Preferred Version in Europe and the Far East

Top Entry



FEATURES AND SPECIFICATIONS

Features

- Terminates C-Grid SL 70107, 70400 and 70475 product
- Full cycle ratchet
- Automatic indexing to next position after insertion of discrete wire
- Built-in release mechanism
- Does not break off carrier strip
- Does not insert terminals into connector
- Snaps onto standard pistol
- For low volume, prototype and field repair

Specifications

Rate: Up to 300 terminations per hour, dependent on operator speed and application (terminal insertion and carrier break off is not included in rate)
Wire Diameter: Discrete wire only, 0.053" diameter max.



Application Tooling

Manual Discrete Wire Hand Tool for SL™



ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
Hand Tool Handle	63600-0478	
Module for .100" Connectors	62100-0700	70400, 70475, 70977
Module for .100" Connectors	62100-0300	70107, 71178

FEATURES AND SPECIFICATIONS

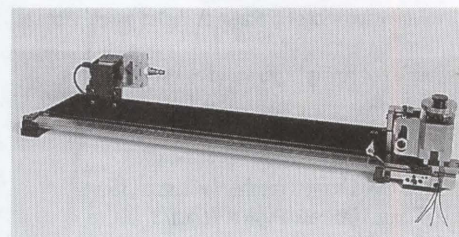
Features

- Installs in industrial standard crimp presses
- Automatic tube unload
- Automatic index and terminate
- Does not insert terminals
- Does not remove carrier strip
- Low cost mid-volume tool

Specifications

Size: Width—762.00mm (30.00")
Depth—101.00mm (4.00")
Height—152.00mm (6.00")
Weight: 4.5kg (10 lb)
Rate: Up to 1000 terminations per hour, depending on operator skill and application

Semi Automatic Discrete Wire IDT Mini-Mac Applicator for SL™



ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
IDT Applicator (Tube Feed)	63800-9700	70400, 70475

FEATURES AND SPECIFICATIONS

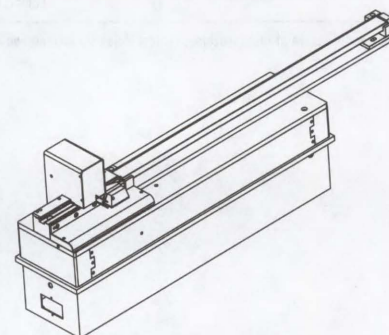
Features

- Self-contained unit
- Automatic tube unload
- Resettable production counter
- Automatic index and terminate
- Does not insert terminals
- Does not remove carrier strip

Specifications

Size: Width—844.00mm (33.25")
Depth—241.00mm (9.50")
Height—311.00mm (12.25")
Weight: 22.7kg (50 lb)
Electrical: 110/220V AC 50/60Hz @ .75A
Pneumatic: 5 BAR (80psig) @ 14L per min. (.5CFM)
Rate: Up to 1000 terminations per hour, depending on operator skill and application

Semi-Automatic Discrete Wire IDT Machine for SL™



ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
MiniCam V for SL	62300-4000	70400, 70475

2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features

- Terminates C-Grid SL 70400 and 70475 product
- Connectors are fed from preloaded tubes; no manual handling
- Automatically inserts terminals into connector
- Automatic carrier removal system
- Simple setting for different circuit sizes
- Programmable setting for running voids
- Display prompting operator for wire color sequence
- Electronic controller for machine operation
- Foot pedal operated
- CE certified

Specifications

Size: Width—965mm (38.00")
 Depth—457mm (18.00")
 Height—432mm (17.00")
 Weight: 47kg (103 lb)
 Pneumatics: Pressure—5 BAR (80psig)
 Consumption—14L per minute (0.5 CFM)
 Electrical: Voltage—120V, 60 Hz or 220V, 50 Hz
 Current—2.0A at 120 or 1.0A at 220
 Insulation Diameter: 0.80 to 1.35mm (.032 to .053")
 Rate: Up to 1000 terminations per hour, dependent on operator speed and application

ORDERING INFORMATION

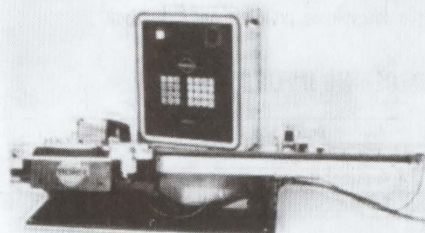
Description	Order No.	Use with Molex Connector
Discrete Wire Terminator (Tube Feed)	62300-3100	70400, 70475
Rebuilt US only*	11-20-1337	70400, 70475
Rebuilt CE approved*	62300-4900	70400, 70475

* Subject to availability



Application Tooling

Semi-Automatic Discrete Wire Machine for SL™



FEATURES AND SPECIFICATIONS

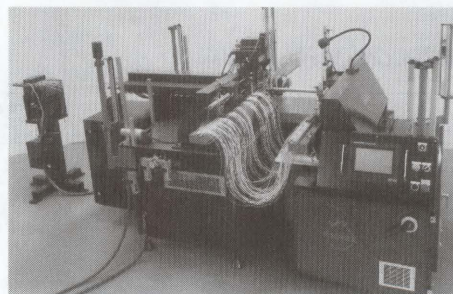
Features

- Terminates C-Grid SL 70400 and 70475 product
- Fully automatic mass terminating machines for high volume applications (minimum estimated annual usage of 10 million terminations)
- Double end having single ended harness capabilities without strip
- Full strip for discrete wire
- Strip and retain for cable
- Single ended harness capability with strip (38mm/1.5" max.) (harness length of 76mm/3" min. to 610mm/24" max.)
- Discrete wire with variable wire length capability (harness length of 152mm/6" min. to 2400mm/95" max.)
- Up to 64 terminations per cycle, dependent on circuit size
- Terminal insertion into connector
- Carrier break off

Specifications

Pneumatics: Pressure—5 BAR (80psig)
 Consumption—142L per minute (5 CFM)
 Electrical: Voltage—220V AC, 50 Hz or 240V AC, 60 Hz
 Current—40.0A (dependent on wire feed options)
 Rate: 300 cycles per hour average, dependent on harness length

Fully Automatic Discrete Wire Harness Assembly Machines for SL™



ORDERING INFORMATION

Description	Order No.	Use with Molex Connector
Fully Automatic Mass Terminator for Discrete Wire and Ribbon Cable	Contact Molex	70400, 70475

Note: Due to the special nature of these machines contact Molex for information related to specific harness requirements

FEATURES AND SPECIFICATIONS

Features

- Adjustable for 2 to 25 circuits for all connector styles
- Tool kit installs in all 11-31-6356 Molex standard presses
- Full-cycle ratchet assures quality termination
- Adjustable cable guides and stop for repeatable cable/connector alignment
- Feature to assure proper connector position

Specifications

Weight (With Press): 24.1kg (53 lb)

Size (With Press):

Height—498mm (19.6")

Width—269mm (10.6")

Depth—152.4mm (6")

Weight (Tooling Only): 2.5kg (5.5 lb)

Size (Tooling Only):

Height—51mm (2.00")

Width—127mm (5.00")

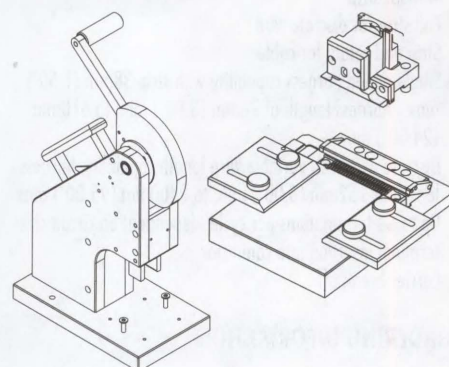
Depth—178mm (7.00")

Rate: Up to 180 terminations per hour, dependent on operator skill

ORDERING INFORMATION

Description	Order No.
Tool Kit for Molex Manual Standard Press	62201-6600
Molex Manual Standard Press	11-31-6356

Manual Ribbon Cable Standard Press and Tool Kit for SL™



2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features

- Can be used with flat flexible cable and pre-notched ribbon cable; this allows for production flexibility and lowers overall cost
- Automatic loading of connectors from tube packaging, which will reduce operator handling and increase production output
- Operator interface keypad for data entry, such as setting batch size or displaying an operator fault message, to help ensure proper operation
- Automatic carrier strip breakoff available, which can be factory ordered or field installed and will reduce operator's handling of product
- Meets OSHA safety requirements and is totally enclosed for operator safety
- Available in 220 volts and has been CE certified for use in Europe

Specifications

Size: Width—494mm (19.50") (without feet)

Depth—945mm (37.25")

Height—914mm (36.00")

Weight: 48.1kg (103 lb) (unpacked)

Pneumatics: Pressure—5 BAR (80psig)

Consumption—14L per minute (0.5 CFM)

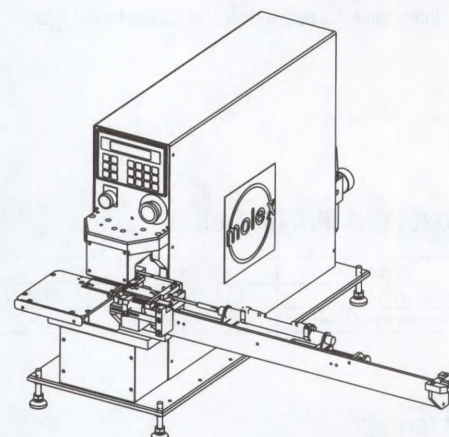
Electrical: Voltage—110V, 50 Hz or 220V, 60 Hz

Current—1.0A (foot switch activated)

Rate: 750 connectors per hour, depending on operator's skill.

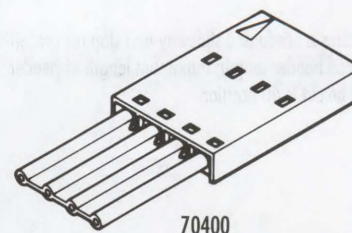
Up to 950 connectors per hour with special order magazine tube loader. Consult factory for more information.

Semi-Automatic Ribbon Cable Machine

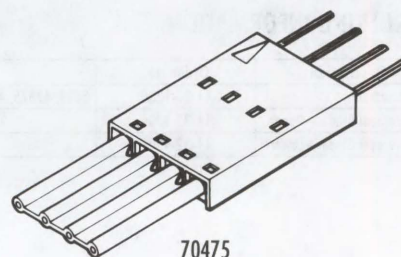


ORDERING INFORMATION

Description	Order No.	Header Series	Voltage/Hz
Ribbon Cable Terminator	62300-3000	70400, 70475	110/220V AC 50/60 Hz
Ribbon Cable Terminator with Breakoff	62300-5300	70400, 70475	110/220V AC 50/60 Hz



70400



70475

FEATURES AND SPECIFICATIONS

Features

- Terminates C-Grid SL 70400 and 70475 product
- Fully automatic mass terminating machines for high volume applications (minimum estimated annual usage of 10 million terminations)
- Double end having single ended harness capabilities without strip
- Full strip for discrete wire
- Strip and retain for cable
- Single ended harness capability with strip 38mm (1.50") max., harness length of 76mm (3.00") min. to 610mm (24.00") max.
- Discrete wire with variable wire length capability, harness length of 152mm (6.00") min. to 2400mm (95.00") max.
- Up to 64 terminations per cycle, dependent on circuit size
- Terminal insertion into connector
- Carrier break off

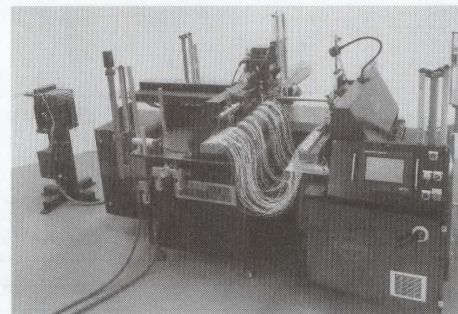
Specifications

Pneumatics: Pressure—5 BAR (80psig)
Consumption—142L per minute (5 CFM)
Electrical: Voltage—220V AC, 50 Hz or 240V AC, 60 Hz
Current—40.0A (dependent on wire feed options)
Rate: 300 cycles per hour average, dependent on harness length



Application Tooling

Fully Automatic Ribbon Cable Harness Assembly Machines for SL™



ORDERING INFORMATION

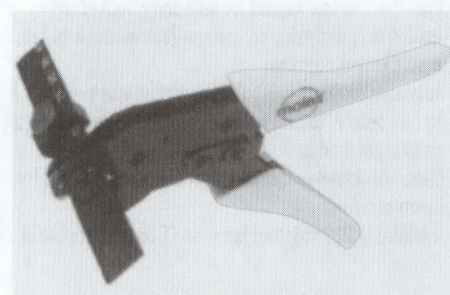
Description	Order No.	Use with Molex Connector
Fully Automatic Mass Terminator for Discrete Wire and Ribbon Cable	Contact Molex	70400, 70475

Note: Due to the special nature of these machines contact Molex for information related to specific harness requirements

FEATURES

- Manually operated
- Interchangeable nests included for various header types

Manual Hand Header Cutting Tool for SL



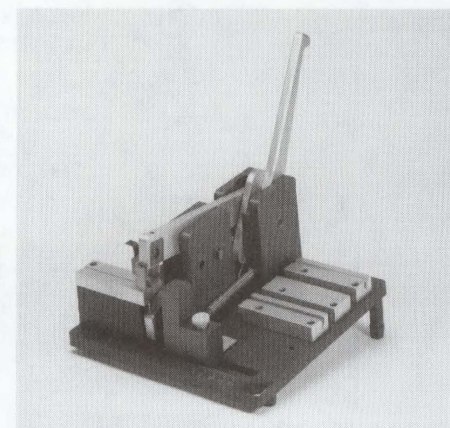
ORDERING INFORMATION

Description	Order No.	Header Series
Tool Assembly	69008-0350	8624, 42375, 42377, 70203, 70216, 70260, 70268, 70287, 70289, 70345, 70524
Replacement Blade—Upper	69008-0078	

FEATURES

- Bench tool for 2.54mm (.100") pitch header cutting to length
- Incorporates a graduated slideway and stop for presetting of required header length; maximum length of header that can be cut is 40 position

Manual Bench Top Header Cutting Tool for SL™



ORDERING INFORMATION

Description	Order No.	Header Series
Tool Assembly	11-20-1230	8624, 42375, 42377, 70203, 70216, 70260, 70268, 70287, 70289, 70345, 70524, 79168, 71308
Replacement Blade—Upper	11-32-4306	
Replacement Blade—Lower	11-32-4307	

FEATURES AND SPECIFICATIONS

- For prototype and repair
- Automatically indexes to the next position after previous wire termination

Preferred Version in Europe—Not available in US

Manual IDT Discrete Wire Hand Tool for PCB Connectors

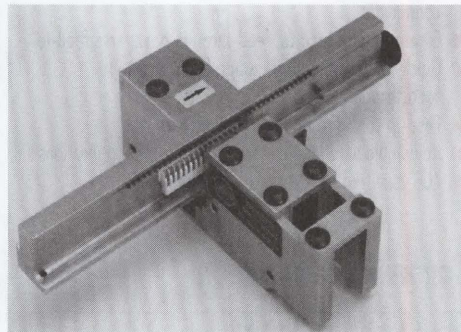
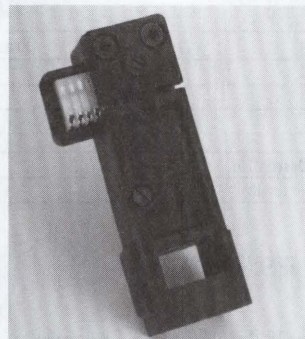
C

2.54mm (.100") Pitch

ORDERING INFORMATION

Description	Order No.	Type	For Connector Series
Pistol	690058-0949		Required for all modules and all connectors

Description	Order No.	Type	For Connector Series
Module for 2.50mm (.098") and 2.54mm (.100") pitch connectors	69008-0225	B	7720, 7720S, 7795S, 40555
"User Friendly"	69008-0290	C	90650, 90652
Module for 3.96mm (.156") pitch connector	69008-0240	B	7674, 7675, 7720, 7720S, 7795S, 40555
Module for 5.00mm (.197") pitch connector	69008-0270	B	6952



FEATURES AND SPECIFICATIONS

Features

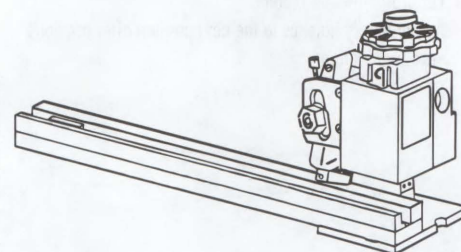
- No services are required (air or electricity), mechanical operation.
- Fits into a standard universal press
- Hand loading of connectors into spring loaded magazine
- Wire guide
- Assembly of jumper harnesses only

Specifications

Size: Width—155mm
Depth—90mm
Height—110mm
Weight: 5.0kg

molex® Application Tooling

Semi-Automatic IDT Mini-Mac for 7720 and 7720S Series Connectors



ORDERING INFORMATION

Preferred Version in Europe—Not Available in the US

Presses			
Description	Order No.	Volts	Used With
P100 Bench Press	69014-0095	220V	European Mini-Mac Applicators
P107 Bench Press	69014-0092	220V	European Mini-Mac Applicators

Description	Order No.	For Connector Series
IDT Mini-Mac Applicator 2-28 Circuits	69053-1002	7720, 7720S

FEATURES AND SPECIFICATIONS

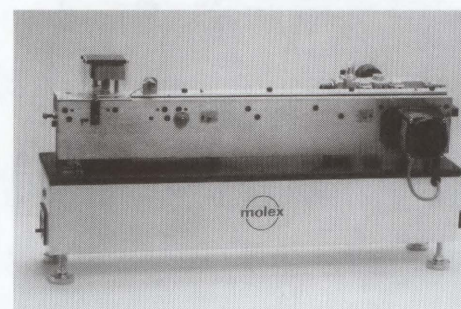
Features

- Easily convertible to .100" or .156" pitch IDT KK family connectors
- Can terminate feed-to, feed-through or reverse feed-to*
- Quick and easy tooling change from feed-to to feed-through
- Feed-to configuration has positive wire stop
- Adjustable wire length stop for daisy chain applications
- "CE" certified for Europe

Specifications

Size: Width—605mm (23.81")
Depth—138mm (5.43")
Height—307mm (12.12")
Weight: 21.0kg (46.3 lb)
Pneumatic: 5-6 BAR (80-90psig) at 7L per minute (0.25 CFM)
Electrical: Voltage—110V, 60 Hz or 220V, 50 Hz
Connector to Connector Spacing: 38mm (1.5") for daisy chain
Rate: Up to 1,200 terminations per hour, dependent on operator speed and application

Semi-Automatic IDT Discrete Wire Machine for PCB Connectors



ORDERING INFORMATION

Description	Order No.	For Connector Series
Mini-Cam IV Semi-Automatic Termination Machine for .156" KK	62300-0156	7674, 7675 and 40590
Mini-Cam IV Semi-Automatic Termination Machine for .100" KK	62300-0100	7720, 7795, 40555 and 41162

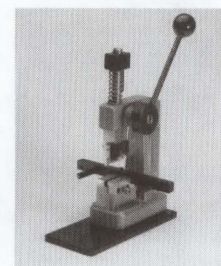
* Caution: For reverse feed-to configuration it is necessary for the terminated wires to protrude outside of the connector. If your application does not allow for this condition, do not use the reverse feed-to termination.

Note: The 62300-01XX Series Mini-Cam IV can run both .100 and .156 pitch KK connectors. The order number only determines how the machine will be set up from the factory.

FEATURES

- For low-volume requirements
- Feed-through or feed-to assembly

Manual Ribbon Cable Press for PCB Connectors



ORDERING INFORMATION

Description	Order No.	Connector
.156" pitch manual press terminator	11-20-0314	7674, 7675
.100" pitch manual press terminator	11-20-0179	7720, 7720S
.098" pitch manual press terminator	11-20-0436	8160

FEATURES AND SPECIFICATIONS

Features

- Terminates pre-notched cable to pre-assembled connectors
- Bench mounted and operator controlled
- Feed-through and feed-to capabilities
- Connector magazine for increased output

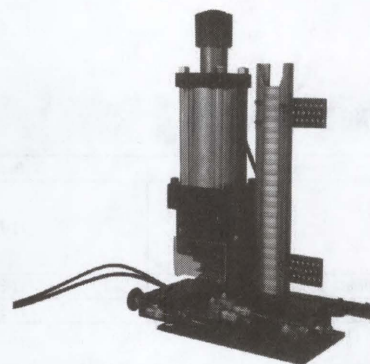
Specifications

Size: Width—152mm (6")
Depth—305mm (12")
Weight: 13.5kg (30 lb)
Pneumatics: Pressure—5 BAR (80-100psig) at 5.6L per minute (0.2 CFM)
Rate: Up to 350 assemblies per hour dependent on operator speed and application

ORDERING INFORMATION

Description	Order No.	Connector
.156" pitch cable terminator	11-20-0418	7674, 7675
.100" pitch cable terminator	11-20-0412	7720
.100" pitch cable terminator for connectors with backwalls	11-20-0771	7720
Terminator for 7795 connector	11-20-0435	7795S
Terminator for 8160 connector	11-20-0498	8160

Semi-Automatic Ribbon Cable Terminator for PCB Connectors



2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

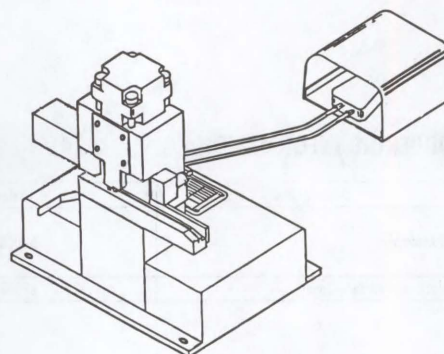
Features

- For processing hand-placed connectors, discrete wire
- Automatic connector indexing after termination
- Pneumatically operated cycle timer ensures stroke completion
- Leaves operator free to work with both hands

Specifications

Size: Width—250mm (9.8")
Depth—150mm (5.9")
Height—215mm (8.5")
Weight: 11kg
Pressure: 6 BAR (90psig)

Semi-Automatic IDT PB13 Pneumatic Machine for KK Connector



ORDERING INFORMATION

Preferred Version in Europe—Not available in US

Description	Order No.	Connector
Hand Placed Connectors	69012-0750	7675
Side Loader	69012-0600	7720S
PB13 IDT Terminator	69012-0700	7720S

FEATURES AND SPECIFICATIONS

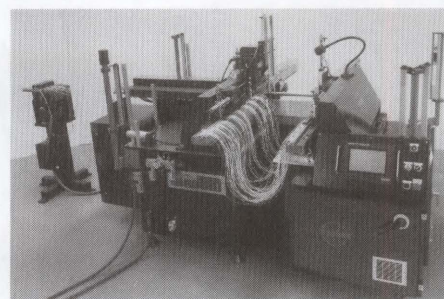
Features

- D reel system for discrete wire or cable available
- Double- or single-ended harness capabilities without strip
- Single ended harness capabilities with strip (38mm/1.50")
- Full strip for discrete wire
- Strip and retain for cable
- Up to 56 terminations per cycle (dependent on circuit size)
- Discrete wire with variable length capability (Harness length of 152mm/6" min. to 2400mm/95" max.)
- Missing wire and splice detector
- Magazine feed for connector loading
- Continuity testing (double-ended assemblies)
- Hot stamp marking
- Reject station to segregate rejected assemblies
- "CE" certified

Specifications

Pneumatic: Pressure—5 BAR (80psig)
Consumption—142L per minute (5 CFM)
Electrical: Voltage—120V, 60 Hz or 220V, 50 Hz
Current—30A at 120V or 15A at 220V
Rate: 300 cycles per hour average, dependent on harness length

Fully Automatic Harness Assembly Machine for KK Series IDT Connectors



ORDERING INFORMATION

Description	Order No.	Connector
Fully Automatic Mass Terminator for Discrete Wire and Ribbon Cable	Contact Molex	KK® Series IDT

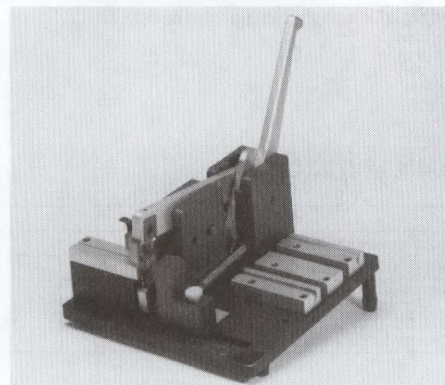
* See Application Tooling section for additional information on these tools

† Due to the special nature of these machines, contact Molex for information related to specific harness requirements

FEATURES

- Manually operated
- Interchangeable nests included for various header types

Manual .100" Pitch Cutter for Breakaway Headers



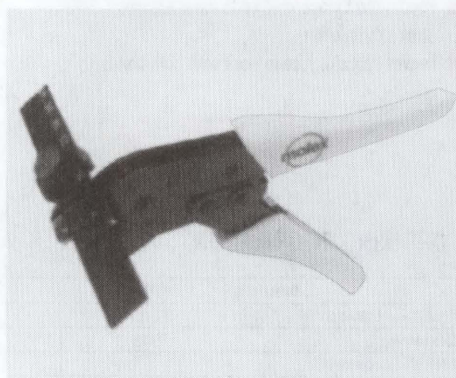
ORDERING INFORMATION

Description	Order No.	Header Series
Tool Assembly	11-20-1230	8624, 42225, 42226, 42227, 42228, 42375, 42376, 42377, 42624, 70203, 70216, 70260, 70268, 70287, 70289, 70343, 70344, 70345, 70524, 71308, 79168
Replacement Blade—Upper	11-32-4306	
Replacement Blade—Lower	11-32-4307	

FEATURES

- Hand tool for 2.54mm (.100") and 3.96mm (.156") pitch header cutting to length
- Incorporates a graduated slideway and stop for presetting of required header length. Maximum length of header which can be cut is 40 position.

Manual Hand Cutting Tool for Breakaway Headers



ORDERING INFORMATION

Description	Order No.	Header Series
Tool Assembly	69008-0350	8624, 70203, 70343, 70344, 42225, 42226, 42227, 42228, 42375, 42376, 42377, 42624, 41661, 41662, 41671, 41672, 41681, 41682
Replacement Blade—Upper	69008-0078	

FEATURES AND SPECIFICATIONS

Features

- Accommodates 0.64mm (.025") through 1.14mm (.045") square wire pins with simple change parts kits
- Reliable pin feed
- Meets OSHA requirements for operator safety and noise

Specifications

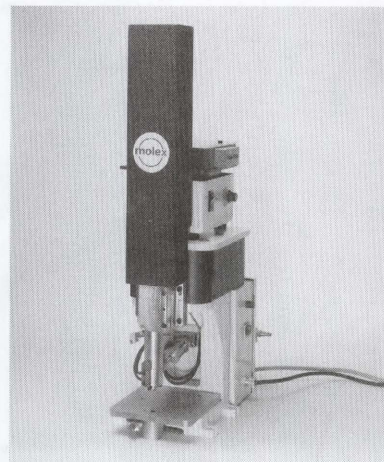
Size: Width—300mm (12")
Depth—460mm (18")
Height—810mm (32")
Weight: 60kg (130 lb)
Pneumatics: Pressure—5 BAR (80psig)
Consumption—20L per minute (0.7 CFM)
Electrical: Voltage—120V, 60Hz or 220V, 50Hz
Current—6A at 120V or 3A at 220V
Maximum Pin-to-Pin Distance:
2.54mm (.100") for 0.64mm (.025") pins
3.96mm (.156") for 1.14mm (.045") pins
Maximum Pin Length: 25.40mm (1.000")
Minimum Pin Length: 6.35mm (.250")
Rate: Up to 3600 pins per hour, dependent on operator speed and application

ORDERING INFORMATION

To order contact Molex. Please have the following information: pin type (product number), pin length, pin height above the PCB, PCB thickness, PCB layout and estimated annual usage.

Note: Not "CE" approved for Europe

Pinsetting Equipment for 2766, 4166 and 2161 Pin Terminals



C
2.54mm (.100") Pitch

FEATURES AND SPECIFICATIONS

Features

- Designed to increase productivity
- Maintains pin orientation
- No air or electric required for slide
- Minimizes operator fatigue
- Bench mountable

Specifications

Size: Width—1220mm (48")
Depth—610mm (24")
Height—152mm (6")
Slide Weight: 31.5kg (70 lb)
Maximum Board Size: 580 x 267mm (23 x 10.5")
Maximum Board Area That Can Be Pinned: 254 x 380mm (10 x 15")
Minimum Distance Board Edge to Pin Location: 95mm (3/8")
Board Thickness: 1.57mm (.062") (nonstandard thickness available on request)

ORDERING INFORMATION

To order contact Molex. Please have the following information: pin type (product number), pin length, pin height above the PCB, PCB thickness, PCB layout and estimated annual usage.

Note: Not "CE" approved for Europe

Multi Directional X-Y Table Accessory

