

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 24 circuits
- With or without locking ramp

Reference Information

Product Specification: PS-08-50

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: 2220, 3190, 3192, 3243, 3246, A4042, 41661, 41662, 41671, 41672, 41681, 41682, 41701, 41711, 41721, 41741, 41761, 41771, 41772, 41791, 41792, 42441, 42461, 42471, 42491 and 42492

Use With: Molex double cantilever crimp terminals

Designed In: Inches

Electrical

Voltage: 250V

Current: 7.0A

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V

Insulation Resistance: 500K MΩ min.

Mechanical

Contact Insertion Force: 4 lb max.

Contact Retention to Housing: 8 lb min.

Wire Pull-Out Force: 5 lb min.

Mating Force: 24 oz max.

Unmating Force: 4 oz min.

Normal Force: 350g

Durability: 25 cycles

Physical

Housing: Nylon, UL 94V-2

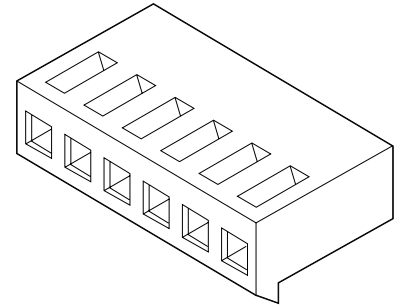
Temperature: 0 to +75°C

molex® 3.96mm (.156") Pitch

KK®

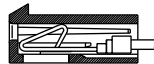
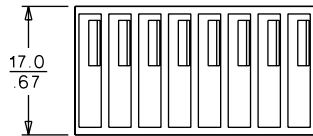
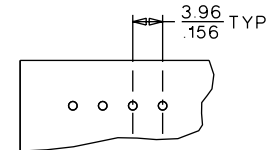
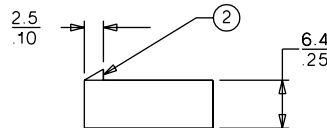
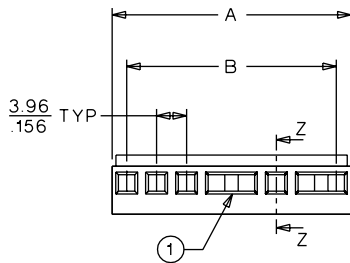
**Wire-to-Board
Crimp Terminal Housing**

3069



PCB and Wire Connectors

J



SECTION Z-Z
(SHOWING TERMINAL IN PLACE)

RECOMMENDED PCB LAYOUT

	Order No.
Polarizing Key	• 15-04-0219
Polarizing Peg	• 15-04-0220

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Without Locking Ramp	With Locking Ramp	A	B
2	09-92-0200	09-91-0200	7.92 (.310)	3.96 (.156)
3	09-92-0300	09-91-0300	11.79 (.460)	7.92 (.312)
4	09-92-0400	09-91-0400	15.75 (.620)	11.89 (.468)
5	09-92-0500	09-91-0500	19.71 (.780)	15.85 (.624)
6	09-92-0600	09-91-0600	23.67 (.930)	19.81 (.780)
7	09-92-0700	09-91-0700	27.64 (1.090)	23.77 (.936)
8	09-92-0800	09-91-0800	31.60 (1.240)	27.74 (1.092)
9	09-92-0900	09-91-0900	35.56 (1.400)	31.70 (1.248)
10	09-92-1000	09-91-1000	39.52 (1.560)	35.66 (1.404)
11	09-92-1100	09-91-1100	43.48 (1.710)	39.62 (1.560)
12	09-92-1200	09-91-1200	47.45 (1.870)	43.59 (1.716)
13	09-92-1300	09-91-1300	51.41 (2.020)	47.55 (1.872)

Circuits	Order No.		Dimension	
	Without Locking Ramp	With Locking Ramp	A	B
14	09-92-1400	09-91-1400	55.37 (2.180)	51.51 (2.028)
15	09-92-1500	09-91-1500	59.33 (2.340)	55.47 (2.184)
16	09-92-1600	09-91-1600	63.30 (2.492)	59.44 (2.340)
17	09-92-1700	09-91-1700	67.26 (2.648)	63.40 (2.496)
18	09-92-1800	09-91-1800	71.22 (2.804)	67.36 (2.652)
19	09-92-1900	09-91-1900	65.18 (2.960)	71.32 (2.808)
20	09-92-2000	09-91-2000	79.15 (3.116)	75.29 (2.964)
21	09-92-2100	09-91-2100	83.11 (3.272)	79.25 (3.120)
22	09-92-2200	09-91-2200	87.07 (3.428)	83.21 (3.276)
23	09-92-2300	09-91-2300	91.03 (3.584)	87.17 (3.432)
24	09-92-2400	09-91-2400	95.00 (3.740)	91.14 (3.588)

FEATURES AND SPECIFICATIONS

Features and Benefits

- Double cantilever design
- Single beam terminal is available for low insertion force 7821 Series (contact Inside Sales)
- For low-level current and voltage use Gold plating
- Phosphor Bronze is recommended for rated current
- Complete line of terminal crimping equipment available (see Application Tooling section of this catalog)

Reference Information

Product Specification: PS-08-50

Packaging: Reel or bag

Tooling Information: See crimp tooling section

UL File No.: E29179

CSA File No.: LR19980

Use With: 2139, 3069 and 41695

Designed In: Inches

Electrical

Voltage: 250V AC max.

Current:

AWG	18	20	22	24	26
Phosphor Bronze (A) max.	7.00	6.25	5.50	5.00	4.50
Brass (A) max.	5.00	4.75	4.50	4.25	4.00

Contact Resistance: 6mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

Mechanical

Contact Insertion Force: 1.8kg (4 lb) max.

Contact Retention to Housing: 3.6kg (8 lb) min.

Wire Pull-Out Force: 20 lb max./18 AWG

Normal Force: 0.75kg (1.65 lb)

Durability: 25 cycles max.

Physical

Contact: Brass or Phosphor Bronze

Plating: See Table

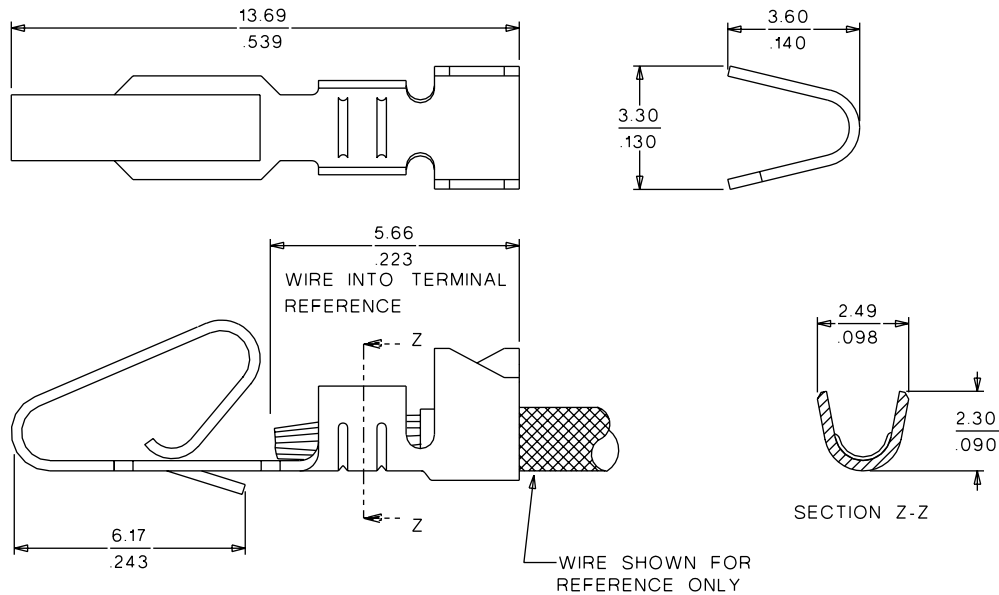
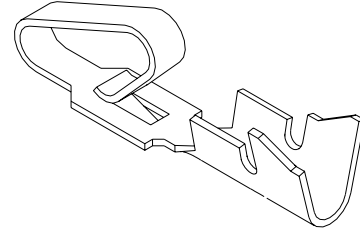
Temperature: Phosphor Bronze—0 to +75°C

Brass—0 to +50°C

molex® 3.96mm (.156") Pitch
KK®

Crimp Terminal

2478/2578



Note: 2478 shown

ORDERING INFORMATION AND DIMENSIONS

Wire Size AWG	Insulation OD	Series	Material	Order No.					
				Tin Plating		Gold Plating No. 1		Gold Plating No. 2	
				Bag	Reel	Bag	Reel	Bag	Reel
18-20	2.79 (.110) max.	2478	Phosphor Bronze	• 08-52-0072	• 08-52-0071	• 08-58-0122	• 08-58-0121	• 08-65-0115	• 08-65-0114
18-20	2.79 (.110) max.	2478	Brass	08-50-0106	08-50-0105	08-56-0106	08-56-0105	08-55-0104	08-55-0103
22-26	1.65 (.065) max.	2578	Phosphor Bronze	• 08-50-0134	• 08-50-0133	• 08-58-0126	• 08-58-0125	• 08-65-0117	• 08-65-0116
22-26	1.65 (.065) max.	2578	Brass	08-50-0108	08-50-0107	08-56-0108	08-56-0107	08-55-0106	08-55-0105

• US Standard Product, available through Molex franchised distributors

Recommended wire range assumes stranded wire

Plating No. 1: 20µ" min. Gold in contact area with a flash overall

Plating No. 2: 15µ" min. Gold in contact area only

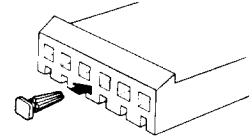
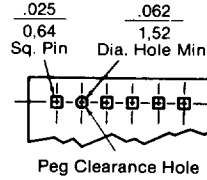
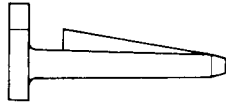
FEATURES AND SPECIFICATIONS

Features and Benefits

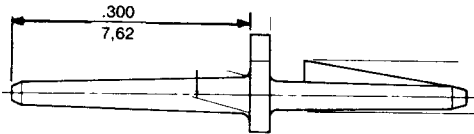
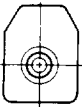
- Snap fit into KK® Series housings
- Polarizing peg or key
- Nylon, UL 94V-2 material
- Eases correct orientation between connector and header
- Provides customization of interconnect system

molex® Polarizing Keys and Pegs

**2.50mm (.098") and
2.54mm (.100") Pitch**

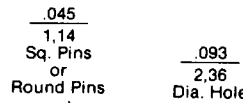
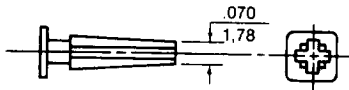


Polarizing Peg



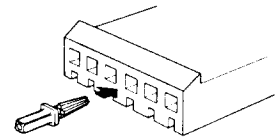
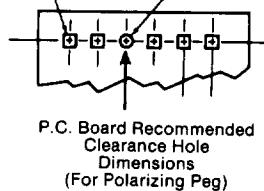
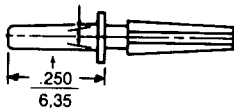
	Engineering No.	Order No.	Fits Connector Housings
Polarizing Key	4161-1	• 15-04-9209	2695, 4025, 4455, 5051, 6471
Polarizing Peg	4161-2	• 15-04-9210	

Polarizing Key



**5.08mm (.200") and
3.96mm (.156") Pitch**

Polarizing Peg



	Engineering No.	Order No.	Fits Connector Housings
Polarizing Key	2560-1	• 15-04-0219	2139, 2145
Polarizing Peg	2560-2	• 15-04-0220	
Polarizing Key	7580-1	89-00-3001	6442
Polarizing Peg	7580-2	89-00-3002	
Polarizing Key	42324-A	• 15-04-0297	41695, 41815

• US Standard Product, available through Molex franchised distributors