

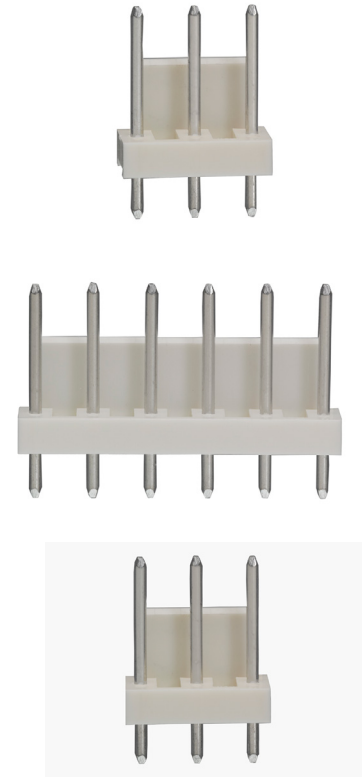
KK 508 Connector System

molex

Delivering up to 7.0A per circuit in wire-to-board and 5.0A per circuit in board-to-board configurations, the KK 508 Connector System, with Glow Wire capability, is ideal for low- to mid-range power applications

Features and Benefits

Polarized mating geometry	Ensures header and receptacle cannot be mated
Available in UL 94V-2 and/or Glow Wire capable materials	Is suitable for global applications that must meet regional safety standards
Bifurcated terminal available	Enhances electrical reliability with two independent contact beams
Dual-cantilever terminals	Create a reliable electrical connection
Anti-snap terminals offered	Prevent terminal damage during cable assembly process
Industry-standard 5.08mm pitch	Enables use in a variety of power applications
Top-entry, right-angle and bottom-entry PCB receptacles available	Provide design flexibility



KK 508®
Glow Wire Connectors

Applications

Consumer

- Home appliances
- HVAC

Data Communications

- Office equipment

Industrial

- Automation equipment
- Industrial networks



HVAC



Home Appliances

*This is not a definitive list of applications for this product. It represents some of the more common uses.

KK 508 Connector System



Specifications

REFERENCE INFORMATION

Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: KK Headers (series 3003 and 2599)
Terminal Used: KK Crimp Terminals
(series 2478 and 2578)
Designed In: Millimeters: Yes
RoHS: Yes
Halogen Status: Low-Halogen
Glow Wire Compliant: Yes

ELECTRICAL

Voltage (max.): 250V
Current (max.) Wire-to-Board: 7.0A
Current (max.) Board-to-Board: 5.0A
Contact Resistance (max.): 10 milliohms
Dielectric Withstanding Voltage: 1500V
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Contact Insertion Force (max.): 17.8N
Contact Retention to Housing (min.): 35.6N
Mating Force (max.): 11.7N
Unmating Force (min.): 3.7N
Durability (min.): 25

PHYSICAL

Housing: Nylon or Polyester
Contact: Brass / Phosphor Bronze
Plating:
Contact Area — Tin / Gold
Solder Tail Area — Tin
Underplating — Nickel
PCB Thickness: 1.60mm
Operating Temperature:
-40 to +80°C for Brass Contacts
-40 to +105°C for Phosphor Bronze Contacts

Ordering Information

Crimp Terminals

Series No.	Application	AWG	Base Material
2478	Power	18 to 24	Brass or Phosphor Bronze
2578	Power	22 to 26	Brass or Phosphor Bronze

Headers

Series No.	Pitch	Application	Shrouded	Circuits
2599	5.08mm	Power Wire-to-Board	Partial	2 to 12
3003	5.08mm	Power Wire-to-Board Board-to-Board	No	2 to 12
173083	5.08mm	Glow Wire Power Wire-to-Board	Partial	2 to 12
3061	5.08mm	Power Wire-to-Board Board-to-Board	No	5

Crimp Housings

Series No.	Pitch	Application	Circuits
91813	5.08mm	Glow Wire Power Wire-to-Board	2 to 12
3001	5.08mm	Power Wire-to-Board	2 to 12

www.molex.com/link/kk508.html

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