

L1NK Connector System Product Family

molex

The L1NK Connector System is a wire-to-board system that delivers up to 11.0A of current through 3 pitch sizes (2.50, 3.00 and 3.96mm) and offers superior design options for flexibility and efficient assembly

Features and Advantages



Reflow-capable header

Can withstand a 260°C reflow process



L1NK 396 Connector



Positive-locking latch
Offers a clear audible click for connection assurance



Reflow options available

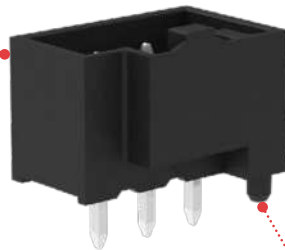
Reduces labor costs, saving time and resources



Partially Shrouded Wall

Provides protection of the pins within

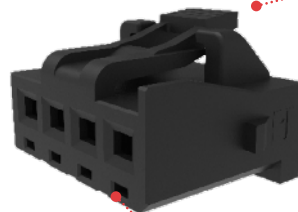
V-0/Glow Wire combination resin
Reduces the cost of materials and labor and allows customers to meet the European standard for electrical requirements



Crush Peg

Provides stability of the connector onto the PCB and allows assembly operators to align the connector onto the PCB

Unique keying design
Prevents mis-mating

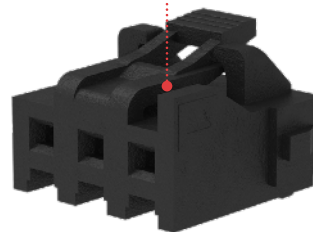


Positive-locking latch
Offers a clear audible click for connection assurance

TPA
Prevents terminal back-out



Unique keying design
Prevents mis-mating



L1NK 300 Connector

L1NK 250 Connectors can provide a direct drop-in replacement on a PCB for JST – XA products.

L1NK 396 Connectors can provide a direct drop-in replacement on a PCB for JST – VH products.

For new low-power, wire-to-board applications, L1NK connectors are reliable alternatives to other manufacturers' products. L1NK 250 Connectors are designed to have a PCB layout compatible with JST's XA series, and L1NK 396 Connectors are designed to have a PCB layout compatible with JST's VH series; however, L1NK receptacles will not mate with JST's or any other manufacturers' products.

L1NK Connector System Product Family

molex

Markets and Applications

Consumer – General Market

Washers and dryers
Freezers
Gaming machines
Printers
Refrigerators
Scanners
Security systems
Vending machines
White goods

Telecommunications/Networking

Routers and switches
Servers
Storage
Medical
Diagnostic equipment
Patient monitors

Automotive

Harness manufacturers
Non-sealed applications
Inside devices
Charging stations
Industrial
Food and beverage
Assembly line equipment



Appliances



Routers

Specifications

L1NK 250 (2.50MM)

REFERENCE INFORMATION

Packaging: Bag, Reel
UL File No.: E29179
CSA File No.: 70216533
Header : 207843
Receptacle: 207841
TPA : 207845
Crimp Terminal: 46626
Designed In: Millimeters
RoHS: Yes
Halogen Free:
Compliant(Low-Halogen): 207843
Not Compliant: 207841, 207845
Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 250V AC (RMS) or DC Current (max.): 6.5A
Contact Resistance (max.): 10 milliohms Dielectric
Withstanding Voltage: 1000VAC Insulation Resistance (min.):
1000 Megohms

MECHANICAL

Pitch: 2.50mm
Contact Insertion Force (max.): 15N
Contact Retention to Housing (min.): 12N Header Pin
Retention Force (min.): 7.5N
Mating Force: 6N per circuit
Un-mating Force: 0.5N per circuit
Durability (max.): 25

PHYSICAL

Header Housing: LCP UL 94V-0, Black
Header Contact: Brass Alloy
Contact Plating: Tin Over Nickel Overall
Receptacle Housing: PA66 UL 94V-0, Black
TPA: PA66 UL 94V-0, Natural
Terminal: Copper Alloy
Plating: Tin
PCB Thickness: 1.60mm
Operating Temperature: -40 to +105°C

L1NK 300 (3.00MM)

REFERENCE INFORMATION

Packaging: Tray, Reel
UL File No.: E29179
CSA File No.: 80033030
Header: 209208
Receptacle: 209209
TPA: 209325
Crimp Terminal: 206396
Designed In: Millimeters
RoHS: Yes
Halogen Free:
Compliant(Low-Halogen): 209208
Not Compliant: 209209, 209325
Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 250V AC (RMS) or DC
Current (max.): 11.0A
Contact Resistance: 10 milliohms
Dielectric Withstanding Voltage: 1000VAC
Insulation Resistance: 1000 Megohms

MECHANICAL

Pitch: 3.00mm
Contact Insertion Force (max.): 15N
Contact Retention to Housing (min.): 12N
Header Pin Retention Force (min.): 7.5N
Mating Force per circuit: 6N
Un-mating Force per circuit: 0.5N
Durability (min.): 25

PHYSICAL

Header Housing: LCP UL 94V-0, Black
Header Contact: Brass Alloy
Contact Plating: Tin Over Nickel Overall
Receptacle Housing: PA66 UL 94V-0, Black
TPA: PA66 UL 94V-0, Black
Terminal: Copper Alloy
Plating: Tin
PCB Thickness: 1.57mm
Operating Temperature: -40 to +105°C

L1NK 396 (3.96MM)

REFERENCE INFORMATION

Packaging: Bag, Tray, Reel
UL File No.: E29179
CSA File No.: 80036057
Header : 207478, 207479
Receptacle: 207458
TPA : 207459
Crimp Terminal : 45570
Designed In: Millimeters
RoHS: Yes
Halogen Free:
Compliant(Low-Halogen): 207478, 207479
Not Compliant: 207458, 207459
Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 350V AC / DC
Current (max.): 11.0A
Contact Resistance (max.): 10 milliohms Dielectric
Withstanding Voltage: 1700VAC Insulation Resistance
(min.): 1000 Megohms

MECHANICAL

Pitch: 3.96mm
Contact Insertion Force (max.): 14.7N
Contact Retention to Housing (min.): 35.6N
Header Pin Retention Force (min.): 7.5N
Mating Force: 10.7N per circuit
Un-mating Force: 3.4N per circuit
Durability (max.): 25

PHYSICAL

Header Housing: LCP UL 94V-0, Black
Header Contact: Brass Alloy
Contact Plating: Tin Over Nickel Overall
Receptacle Housing: PA66 UL 94V-0, Black
TPA: PA66 UL 94V-0, Natural
Terminal: Copper Alloy
Plating: Tin
PCB Thickness: 1.60mm
Operating Temperature: -40 to +105°C

www.molex.com/link/L1NK.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.