

L1NK Connector System Product Family

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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

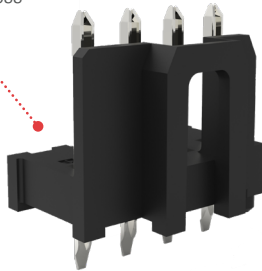
Can withstand a 260°C reflow process



L1NK 396 Connector



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



Reflow options available

Reduces labor costs, saving time and resources

Unique keying design
Prevents mis-mating



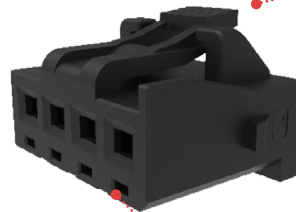
Partially Shrouded Wall

Provides protection of the pins within

L1NK 250 Connector

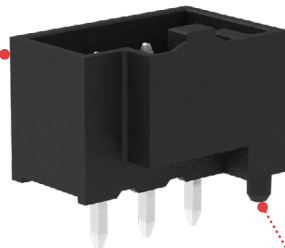
V-0/Glow Wire combination resin

Reduces the cost of materials and labor and allows customers to meet the European standard for electrical requirements



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

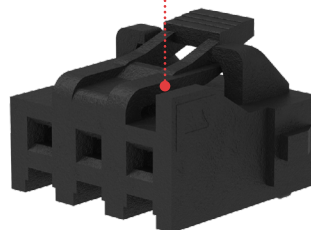
TPA
Prevents terminal back-out



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



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.

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Markets and Applications

Consumer – General Market

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

Telecommunications/Networking

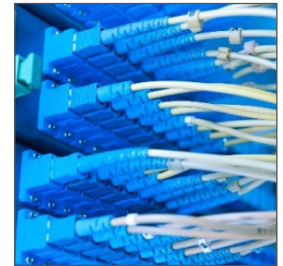
Routers and switches
Servers
Storage
Medical
Diagnostic equipment
Patient monitors

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

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