

L1NK Connector System Product Family



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



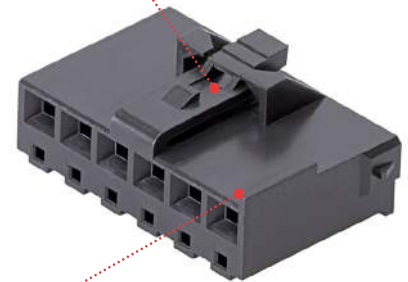
Reflow-capable header

Can withstand a 260°C reflow process



L1NK 396 Connector

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



Unique keying design
Prevents mis-mating

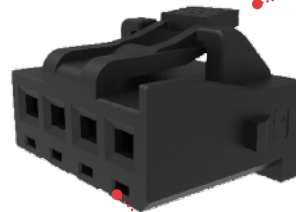


Reflow options available
Reduces labor costs, saving time and resources



L1NK 250 Connector

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



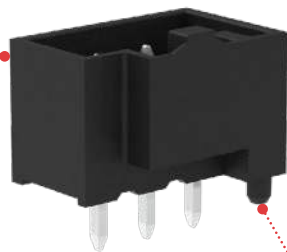
V-0/Glow Wire combination resin
Reduces the cost of materials and labor and allows customers to meet the European standard for electrical requirements



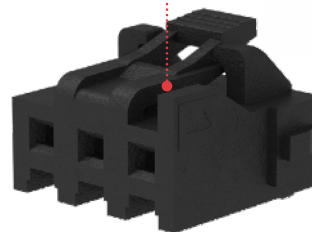
TPA
Prevents terminal back-out



Partially Shrouded Wall
Provides protection of the pins within



Unique keying design
Prevents mis-mating



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

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

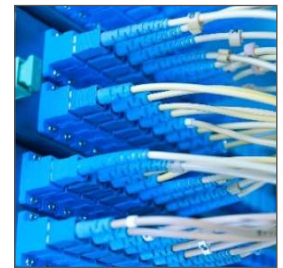


Markets and Applications

Consumer – General Market	Telecommunications/Networking	Automotive
Washers and dryers	Routers and switches	Harness manufacturers
Freezers	Servers	Non-sealed applications
Gaming machines	Storage	Inside devices
Printers	Medical	Charging stations
Refrigerators	Diagnostic equipment	Industrial
Scanners	Patient monitors	Food and beverage
Security systems		Assembly line equipment
Vending machines		
White goods		



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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