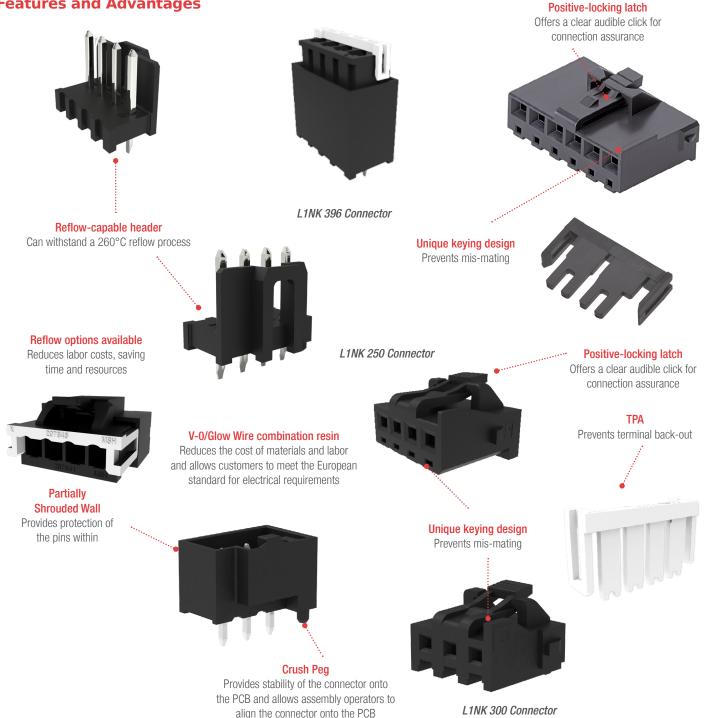
# L1NK Connector System Product Family



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**



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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# molex

# **Markets and Applications**

#### Consumer – General Market Telecommunications/Networking Automotive

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

Routers and switches Servers Storage Medical **Diagnostic equipment** Patient monitors

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 Allov 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 Allov 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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