

> L1NK 396 Connector

207478-0XXX Unshrouded Header without Peg
207478-1XXX Unshrouded Header with Peg
207479 Shrouded Header
207458 Receptacle Housing
207459 TPA
45570 Crimp Terminal

The L1NK 396 Connector is a single-row, wire-to-board system that offers a 3.96mm pitch, a current rating of 11.0A, and superior design options for flexibility and efficient assembly

Category: Power Connectors
Circuits: Single Row: 2 to 6
Pitch: 3.96mm
Current: Max. 11.0A

www.molex.com/link/L1NK396.html



L1NK 396 Connectors

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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
 Internal devices
 Charging stations

Industrial

Food and beverage
 Assembly line equipment

L1NK 396 Connector



Target Customer Job Functions

- Engineering
- Manufacturing
- Quality
- Ergonomics



Infotainment Systems



Appliances

For whom is it intended (current and future customers)?

- Customers using multiple headers of the same circuit size
- Customers who have issues with terminal back-out
- Customers having issues with high-mating force connectors
- SMT version is for customers wanting to avoid vias on PCBs (i.e., for space savings, by using LEDs on an aluminum substrate board)



Routers

[Return to Page 1](#)

L1NK 396 Connector



VITAL PRODUCT INFORMATION

What makes this product different compared to the competition?

The L1NK 396 Connector offers keying options to ensure proper mating. It also provides terminal position assurance (TPA) to prevent terminal back-out.

- Contains a V-0/Glow Wire (V-0/GW) combination resin
- TPA
- Enhanced Positive Lock
- Offering includes both a Shrouded and Un-Shrouded header

How does this product/solution create value for our customers?

The V-0/GW combination resin used in the housing reduces the cost of materials and labor by providing a cost-effective alternative drop-in replacement and by simplifying the customer's procurement process. **L1NK 396** connectors also allow customers to meet the European standard for electrical requirements.

- **L1NK 396 provides a direct drop in replacement on a PCB for all JST – VH products.**

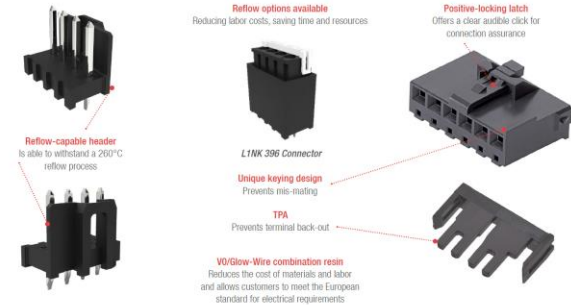
PRODUCT FEATURES AND ADVANTAGES

L1NK 396 Connector System Product Family



The L1NK 396 Connector is a single-row, wire-to-board system that offers a 3.96mm pitch, a current rating of 11.0A, and superior design options for flexibility and efficient assembly

Features and Advantages



Markets and Applications

Consumer – General Market

Washers and dryers
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Appliances



Routers

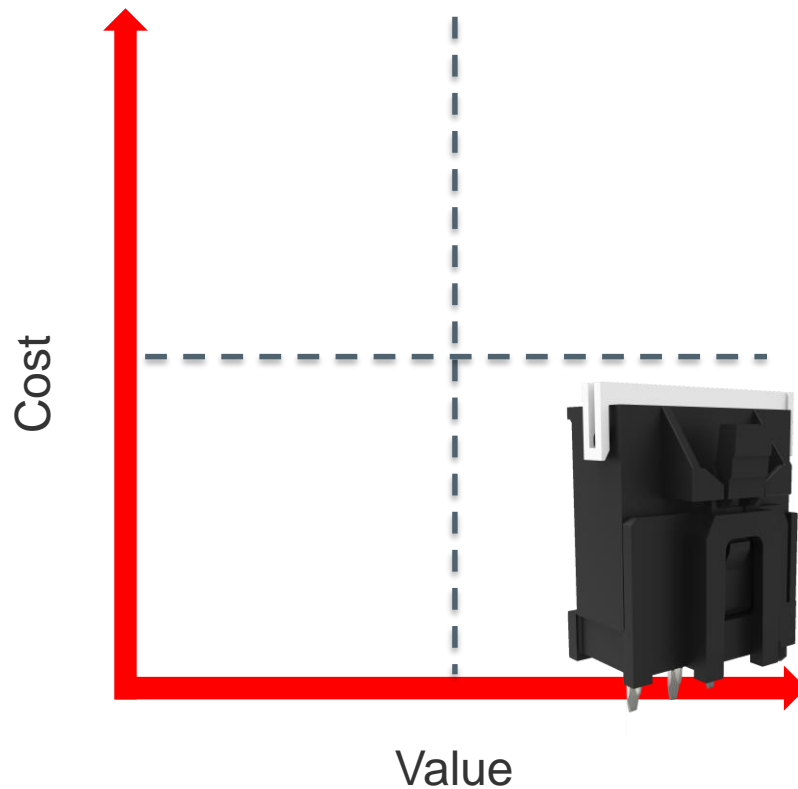
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[Return to Page 1](#)



L1NK 396 Connector

PRODUCT INFORMATION cont.



High value at a low cost

- Drop-in alternative
- V-0/GW combination resin reduces cost of labor and materials while meeting European electrical standards
- Enhanced positive lock
- Shrouded and unshrouded headers

[Return to Page 1](#)



L1NK 396 Connector



VITAL PRODUCT INFORMATION (continued)

Industry Need	Industry Challenge	Industry Solution	Anticipated Results
Mis-mating Prevention	Some applications have high mis-mating probably due to repetitive mating requirements.	L1NK 396 Connectors prevent mis-mating with their unique keying design and clear audible click for connection assurance.	With positive-locking latch and keying design, L1NK 396 Connectors will provide accurate mating even with repetitive mating requirements.
Terminal Back-Out Prevention	When assembling connectors, terminal back-outs may occur, resulting in end-product failure.	The TPA design of L1NK 396 Connectors provide security for the terminals inside the receptacle, preventing failure in end products by reducing terminal back-out.	Using L1NK 396 Connectors will allow for accurate, secure and stable connections.
Drop-In Replacement	When a new design is in progress, Engineers have found challenges with finding alternative direct drop-in replacements for current PCB designs.	The L1NK 396 headers offer a complete direct drop-in replacement on the PCB to JST VH.	When using L1NK 396 Connectors, engineers will have less design challenges and a more cost effective connector option.
V-0/GW Combination Resin	Purchasing and procurement teams are often looking for less items on their bill of materials that provide the same value.	The L1NK 396 Connector System provides both a V-0/GW combination material that provides less items on a bill of materials and allows for OEM's to design products on a global scale to meet European Electrical standards.	L1NK 396 Connectors will provide a straightforward design for OEM's that are manufacturing on a global scale.
Housing Protection	Design engineers may face the challenge of saving on their PCB space without having to forego terminal protection.	L1NK 396 Connectors offer superior terminal protection in a small package with maximum current.	Engineers can have PCB space savings without having to sacrifice terminal protection.

[Return to Page 1](#)





L1NK 396 Connector

Situation, Problem, Implication, Need Payoff (SPIN)

The SPIN questions on this page are examples and should be used as a possible starting point for a deeper inquiry that pertains to specific customers and their situations/environments. Please use the techniques from the Molex Value Selling training to develop your own SPIN questions to use when meeting with your prospects and customers.

Need	Situation	Problem	Implication	Need Payoff
Mis-mating Prevention	Do the applications of your industry require repetitive mating?	Do your current connectors fail in mating due to the demands of this repetition in the process?	Is it difficult to remain efficient during mating cycles when meeting the demands of your industry?	How could a connector with keying designs and a positive locking latch help with accurate mating?
Terminal Back-Out Prevention	Are your connectors sometimes assembled incorrectly and the terminals not fully engaged in their housing?	When assembling connectors, do terminal back-outs occur causing end-product failure?	Is there a lack of stability and security for the terminals in your connectors?	How would a connector with TPA (providing locking redundancy) help you to prevent terminal back-outs?
Drop-In Replacement	Do your design projects require direct drop-in replacements?	Do your engineers have a difficult time finding alternative direct drop-in replacements for their designs?	Are your engineers facing design issues and cost increases due to production delays?	How would a drop-in replacement connector create cost savings and provide ease in your design phase?
V-0/GW Combination Resin	Are your applications required to meet electrical European standards?	How does meeting these standards affect your cost of materials and labor?	Are additional expenses incurred due to using multiple parts per component?	How would a V-0/GW housing material provide cost savings? Labor savings?
Housing Protection	Which is a more important feature for your application: small package or enclosed isolated terminals? Why?	What issues do you face when having to choose either a small form factor of enclosed isolated terminals?	If terminals are damaged, will your product fail? What are the potential costs incurred due to returns, repairs, liability, and damage to brand?	What risks would be mitigated with a connector that provides PCB space savings, maximum current in a small package and full terminal protection?

ADDITIONAL SPIN QUESTIONS TO ASK CUSTOMERS

- Does your design require a direct drop-in replacement to JST's VH connector system?
- Do you need to create space savings on the PCB by using multiple layers?
- Would you like to use an automated pick-and-place assembly method?

[Return to Page 1](#)





L1NK 396 Connector

SALES TIPS: Key take-aways

Configuration:

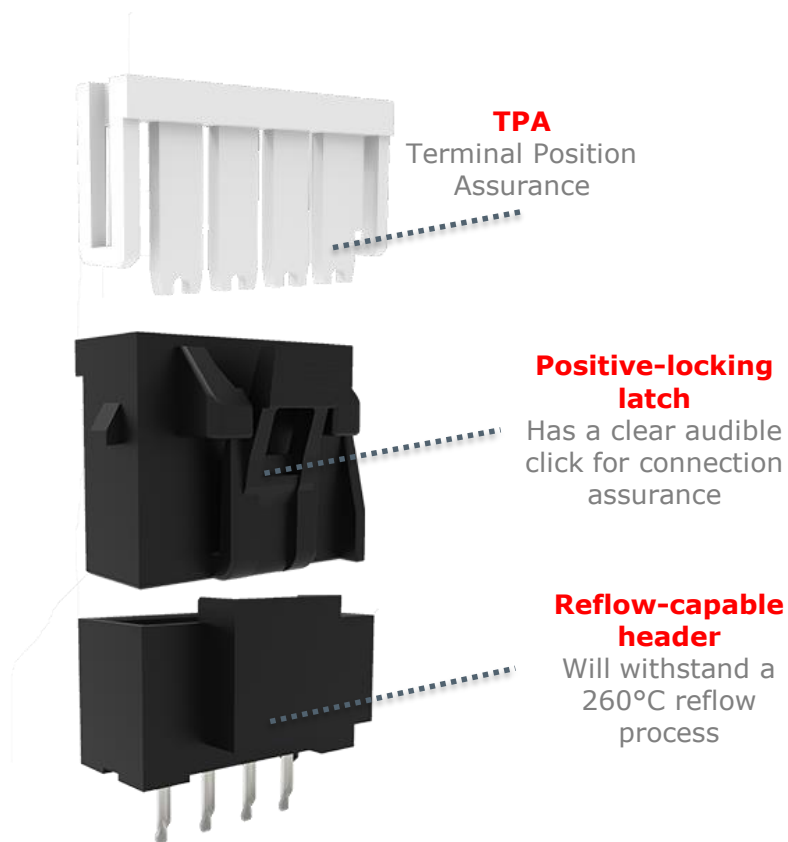
- Wire to Board

Electrical

- Current Rating: 11.0A
- Voltage Rating: 300V

Physical

- 3.96mm Pitch
- 2 to 6 Circuits
- Single Row
- Vertical Through-Hole Headers
- 18 to 20 AWG
- TPA
- Positive Lock
- V-0/GW combination resin
- Reflow Capable
- JST VH Drop in replacement on PCB



[Return to Page 1](#)

L1NK 396 Connector



UNIQUE AND USEFUL DIFFERENTIATION VS. SIMILAR MOLEX PRODUCT

Product and Technical Differences		
Attribute	L1NK 396 Connectors	KK 396 Connectors
TPA	Yes	No
Mating Orientation	Vertical	Vertical and Right Angle
Current (max.)	11.0A	7.0A
Product Image	 Unshrouded Header  Shrouded Header	

[Return to Page 1](#)



L1NK 396 Connector



ORDERING INFORMATION

Terminals

Series	Description	AWG
45570	3.96mm (0.156") Pitch MarKK Crimp Terminal	18 to 20

Receptacles

Series	Description	Circuits
207458	Receptacle Housing	2 to 6

Headers

Series	Description	Circuits
207478-0XXX	Header – Unshrouded without Peg	2 to 6
207478-1XXX	Header – Unshrouded with Peg	
207479	Shrouded Header	

TPA

Series	Description	Circuits
207459	TPA	2 to 6

[Return to Page 1](#)