



THE DATASHEET OF
1719710006



SL Modular Connector System

With its large number of options and configurations, SL Modular Connectors and Assemblies deliver ideal wire-to-wire solutions and its varying PCB termination methods, including reflow process capable versions, support a range of wire-to-board applications

Features and Advantages

Two independent points of contact

Offers redundant, secondary current paths for long-term electrical performance and reliability

Terminal position assurance (TPA) lock for male and female housings

Reduces the risk of terminal back-out in high-vibration environments

Low-profile, stackable housing, vertical and right-angle headers

Provides design flexibility with or without panel mounting

Connector position assurance (CPA) lock

Ensures wire-to-wire and wire-to-board mating interface will not disengage in high-vibration environments

2.54mm pitch

Enables intermatability with C-Grid and KK 2.54mm-pitch product families for the largest number of configurations in the industry

High-temperature LCP headers available

Reflow process capable. Enables automated termination to PCBs. Reduces labor costs.

High-temperature headers available, made with liquid crystal polymer (LCP)

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Applications

Consumer

- Computer Peripherals
- Copiers
- HVAC Equipment
- Modems
- Printers
- Scanners

Automotive

- Airbag Sensors
- Interior Lighting
- Sound Systems
- Steering Controls

Medical

- Panel Displays on Portable Medical
- Dental Equipment
- Breathing Machines



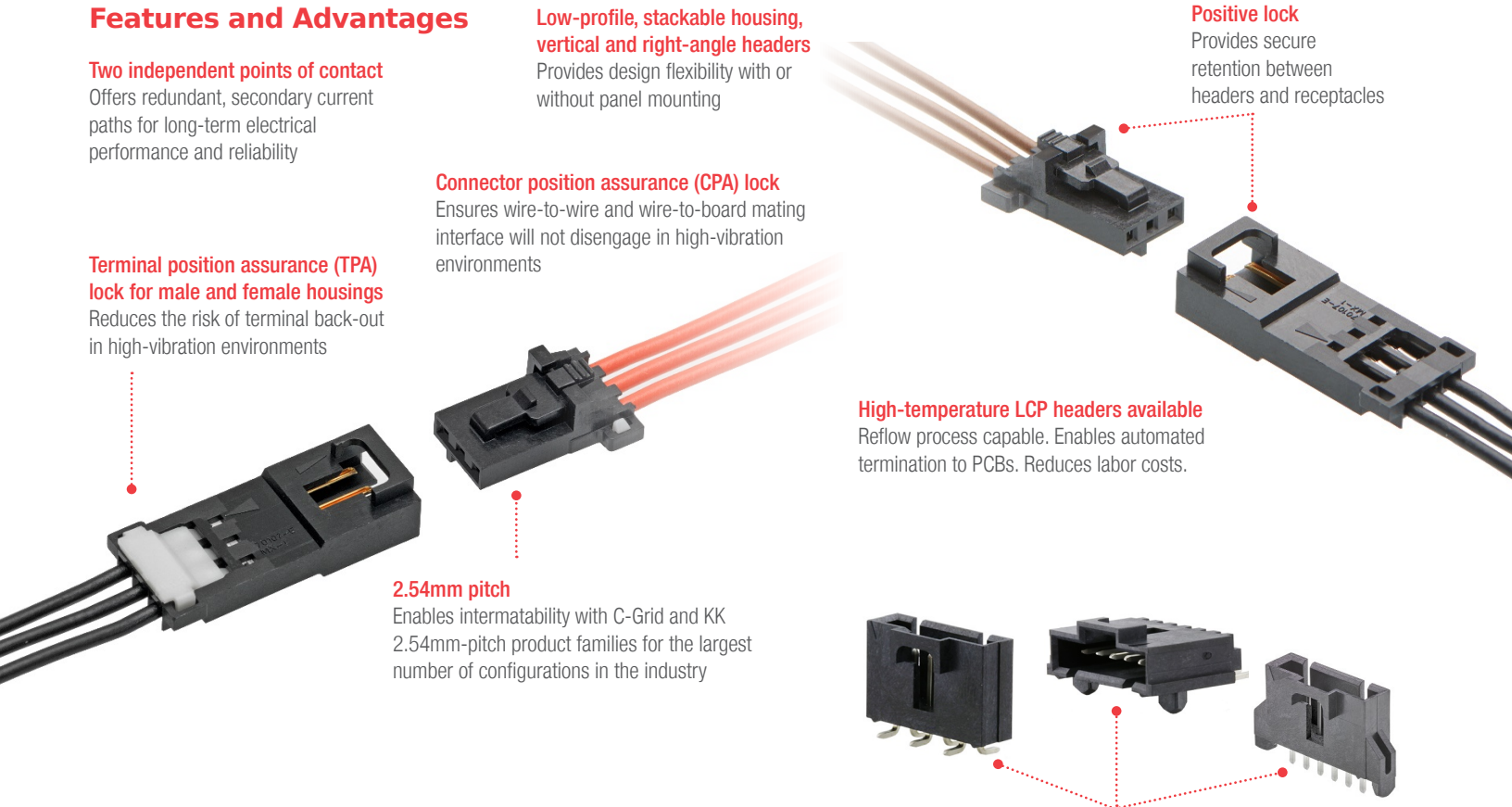
Automotive Interior Lighting and Sound System



Copiers and Printers



Portable Diagnostics



Specifications

REFERENCE INFORMATION

Packaging: Tape-and-reel, tube
 UL File No.: E29179
 CSA File No.: LR19980
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: No
 Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 250V
 Current (max.): 3.0A
 Contact Resistance (max.): 15 milliohms
 Dielectric Withstanding Voltage (min.): 600V AC
 Insulation Resistance (min.): 10000 Megohms

MECHANICAL

Mating Force (min.): 45N
 Unmating Force (min.): 15N
 Durability (min.): 25 (Tin) 50 (Gold)

PHYSICAL

Housing: Glass-filled polyester
 High-Temp Housings: Liquid Crystal Polymer (LCP)
 Contact: Brass
 Plating:
 Contact Area — Matte tin or select gold
 Solder Tail Area — Matte tin
 Underplating — Nickel
 Operating Temperature: -40 to +105°C

Ordering Information

Tape-and-Reel Packaging Versions

| Order No. | Component | Circuits | Plating | Poles |
|----------------------------|--|--------------|-----------|--------------|
| 74099-06XX | Wire-to-Board Headers, Vertical SMT | 3 through 12 | Tin | 5-Pole Power |
| 74099-06YY | | | 15µ" Gold | |
| 74099-06ZZ | | | 30µ" Gold | |
| 15-91-6XX9 | Wire-to-Board Headers, Right Angle SMT | 2 through 25 | Tin | |
| 15-91-7XX0 | | | 15µ" Gold | |
| 15-91-7XX1 | | 2 through 12 | 30µ" Gold | |

XX: Replace XX with desired circuit size

YY: Replace YY with desired circuit size +20 (e.g.: 3 circuit = 74099-0623)

ZZ: Replace ZZ with desired circuit size +40 (e.g.: 3 circuit = 74099-0643)

Tube Packaging Versions

| Series No. | Component | Circuit Sizes |
|--|----------------------------|---------------|
| 70066 , 70107 | Crimp Housings | 2 to 25 |
| 70021 , 70058 , 71851 | Crimp Terminals | 22 to 32 AWG |
| 70541 , 70543 , 70545 , 70551 , 70553 , 70555 , 70634 , 74095 , 74099 , 87898 | PCB Headers | 2 to 25 |
| 73838 | Female TPA Locks | 2 to 8 |
| 70400 , 70475 | IDT Assemblies | 2 to 25 |
| 70013 , 70022 | Clips and Modular Branches | 2 to 50 |

| Series No. | Component | Wire Gauge |
|---|-----------------|--------------|
| 70021 , 70058 , 71851 | Crimp Terminals | 22 to 32 AWG |

High-Temperature Headers That Are Reflow Process Capable

| Series No. | Type | Orientation | Circuit Sizes |
|------------------------|------------------------|-------------|---------------|
| 171971 | Through Hole | Vertical | 2 to 25 |
| 171972 | Through Hole with Pegs | | |
| 171974 | Through Hole | Right-Angle | |
| 171975 | Through Hole with Pegs | | |
| 171973 | SMT | Vertical | |
| 171976 | | Right-Angle | |
| 171977 | SMT with Pegs | Right-Angle | |

www.molex.com/link/slmodular.html

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