



THE DATASHEET OF
1719750003



SL Modular Connector System

molex

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

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

Provides design flexibility with or without panel mounting

Positive lock

Provides secure retention between headers and receptacles

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

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

Connector position assurance (CPA) lock

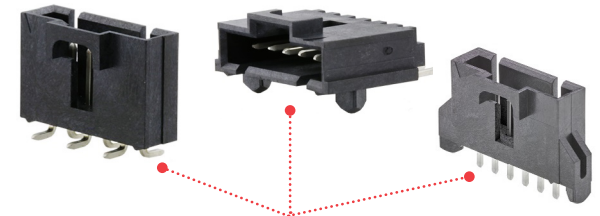
Ensures wire-to-wire and wire-to-board mating interface will not disengage in high-vibration environments

High-temperature LCP headers available

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

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 headers available, made with liquid crystal polymer (LCP)

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

Applications

Consumer

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

Automotive

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

Medical

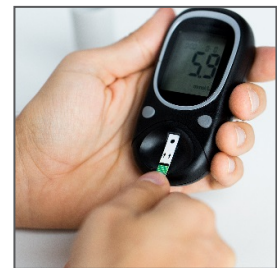
- Panel Displays on Portable Medical
- Dental Equipment
- Breathing Machines



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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