

Off-the-Shelf Stackable Linear (SL) Positive-Lock Discrete Cable Assemblies

Off-the-Shelf SL Positive-Lock Discrete Cable Assemblies come in a variety of cable lengths and support both prototyping and global production in a wide range of applications

Features and Advantages

Discrete wire crimp, FFC and IDT termination styles available
Offer several wire-connection options for design flexibility

2.54mm pitch

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



SL Positive-Lock Discrete Cable Assemblies

Tape-and-reel packaging available with optional pick-and-place vacuum caps

Allows for use of more highly automated termination processes; protects SMT headers during shipping/handling; enables the use of an automated vacuum-pick-and-place machine for high-speed processing and accurate placement on PCB



Connector position assurance (CPA) lock

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



Split-peg PCB header options

Maintain header position on PCB during solder process



Terminal position assurance (TPS) lock

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



Terminal features 2 independent points of contact

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

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

Reflow process-capable; enable automated termination to PCBs; reduces labor costs

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

Provide design flexibility with or without panel mounting



Discrete wire crimp, FFC and IDT termination styles available

Offers several wire-connection options for design flexibility

Positive-lock mating interface

Ensures secure retention with receptacles in high-vibration environments

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Applications

Consumer

Computer peripherals
Copiers
Modems
HVAC Systems
Printers/Scanners

Industrial

Robotics

Automotive

Air bag sensors
Interior components
Sound systems
Steering controls

Data/Computing

Disk drives

Commercial Vehicle

Sound systems

Medical

Analytical laboratory equipment

In-room/patient-monitoring equipment

Measuring equipment

Surgical systems

Telecommunications/Networking

1U rack boxes

Panel displays on mainframes



Robotic Arm



Car Interior



Analytical Laboratory Equipment

Specifications

REFERENCE INFORMATION

Packaging: Bulk (connectors); Reels (terminals)
UL File No.: E29179
CSA File No.: LR19980
Use With: 22 AWG
Insulation Diameter: 1.50mm
Designed In: Millimeters
RoHS: Yes
Halogen-Free: No
Glow Wire Capable: No
IP Rating: N/A

ELECTRICAL

Voltage (max.): 600V AC/DC
Current (max.): Up to 3.0A
Contact Resistance (max.): 30 milliohms
Dielectric Withstanding Voltage: 2000V AC (unmate connectors for 1 minute between adjacent terminals and between terminals to ground)
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Terminal Insertion Force (max.): 13.34N
Terminal Retention to Housing (min.): 17.79N
Mating Force (max.): 13.34N per circuit
Unmating Force (min.): 1.67N per circuit
Durability (max.): 25 cycles

PHYSICAL

Housing: Polyester Alloy*
Contact: Phosphor Bronze
Contact Area – Tin
Underplating – Tin
Operating Temperatures: -40 to +105°C

*Information is based on SL Positive-Lock connector specifications

Ordering Information

Series	Component	Circuits	Lengths (mm)
216270	Off-the-Shelf SL Positive-Lock Discrete Cable Assemblies	2, 3, 4, 5, 6 and 8	50.00, 100.00, 150.00, 300.00 and 600.00
216271			
216272			
216273			

Custom product	Description
Contact Molex	Off-the-Shelf SL Positive-Lock Custom Discrete Cable Assemblies

www.molex.com/link/otscableassemblies.html

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