

Milli-Grid™ Halogen-free Shrouded Connectors

molex®

Available in a variety of orientation and mounting configurations, the new shrouded Milli-Grid™ connectors offer robust mating performance while meeting halogen-free requirements in data, consumer and other industry wire-to-board applications



Milli-Grid™ Halogen-free Wire-to-Board Connectors

Features and Benefits

LCP Housing

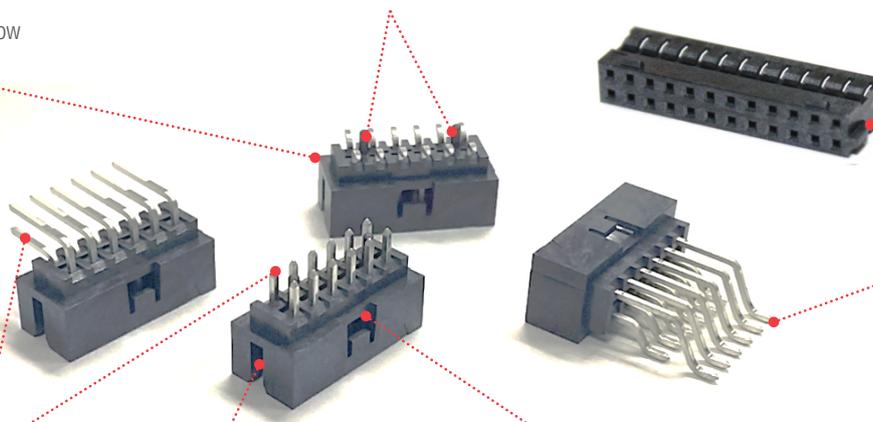
Supports high-temperature reflow temperatures and halogen-free compliance requirements

Retention Peg

For robust PCB retention during reflow process

Polarization Key

Prevents wrong mating orientation



SMT Tails

Expand mounting configuration in addition to through-hole style option

Choice of 3 through-hole soldertail lengths (2.60, 3.60 and 4.60mm)

Supports different PCB thickness

Single side-slot

Prevents wrong mating orientation

Locking Ramp Window

Ensures secure mating

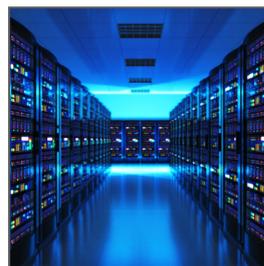
Applications

Data/Communications

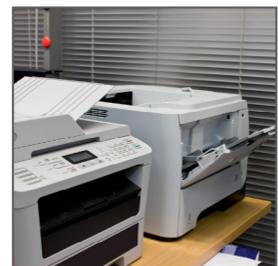
- Storage
- Servers
- Modems
- Motherboards
- Monitors



GPS / Car Audio



Servers



Office Equipment

Telecommunications/Networking

- Hubs
- Switches / Routers

Consumer/Home Entertainment

- Printers / Copiers / Fax Machines
- Set-top boxes
- Home Appliances

Other Applications

- Vending machines
- Exercise Equipment
- Smart Meters
- GPS (Automotive)
- Car Audio (Automotive)



Home Appliances

Specifications

REFERENCE INFORMATION

Packaging: Tube (Header)
 Tape & Reel (Header)
 Bulk (Crimp Receptacle)
 UL File No.: E29179
 CSA File No.: 1696372 (LR 19980-182)
 Mates With:
 151117/151118/151119/151120
 with 151192 housing
 Use With: 151192 housing with 50394 terminals
 Terminal Used: Copper Alloy
 Designed In: Millimeters
 RoHS: Yes
 Halogen Free: Yes
 Glow Wire Compliant: Under Evaluation

ELECTRICAL

Voltage (max.): 125V AC
 Current (max.): 2.0A
 Contact Resistance: 40 milliohms
 5 milliohms (Crimp terminal)
 Insulation Resistance: 1000 megohms

MECHANICAL

Contact Retention to Housing: 8.5N min. per pin
 Durability (min.): 50 cycles for Gold-plated connector; 25 cycles for Tin-plated connector

PHYSICAL

Housing (Header): LCP, Glass-filled, UL94V-0, Black
 Housing (Crimp Receptacle): LCP, Glass-filled, UL94V-0, Black
 Contact: Copper Alloy
 Plating: Contact Area: Tin (Sn)
 Selective Gold (Au)
 0.05, 0.38 0.76 micron Gold (Au)
 Solder-tail Area: 2.00 micron Matte Tin (Sn)
 Underplating: 1.25 micron Nickel (Ni)
 PCB Thickness: Refer to Sales Drawing
 Operating Temperature: -55 to 105°C

Ordering Information

Series No.	Description
151117	Vertical Header, Through Hole
151118	Vertical Header, SMT
151119	Right Angle Header, Through Hole
151120	Right Angle Header, SMT
151192	Crimp Receptacle Housing