

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

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



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

Applications

Data/Communications

- Storage
- Servers
- Modems
- Motherboards
- Monitors

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)



GPS / Car Audio



Servers



Office Equipment



Home Appliances

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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 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

www.molex.com/product/milligrid.html