

Milli-Grid BMI (Blind Mate Interface) Connectors

molex

Milli-Grid Connectors offer a fully shrouded, 2.00mm-pitch header with a compact blind-mating interface for wire-to-board and panel-to-board applications across a variety of industries

Features and Advantages

Choice of 6 PC tail lengths (2.10, 2.60, 3.00, 3.50, 4.00 and 4.50mm)
Suits a variety of PCB thicknesses for greater design flexibility

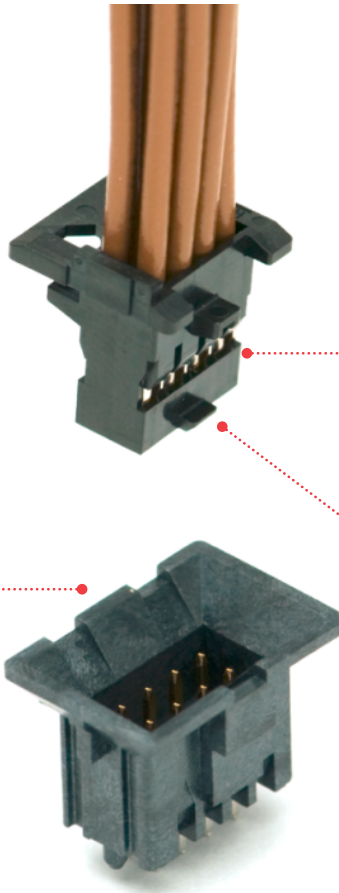
High-temperature LCP housing
Meets lead-free processing requirements

Fully shrouded housing
Protects mating contact from accidental bending and damage

Floating x- and y-axes
Helps position connectors to achieve fully mated condition

Wide lead-in bevel design
Self-aligns connectors without the need for direct line-of-sight or wrenching tools

Locating peg
Ensures correct connector orientation on PCB



Applications

Automotive

- Car audio
- Data/Telemetry

Consumer

- Copiers
- Fax machines
- Printers
- Satellite radio

Telecommunications/Networking

- Router/Servers
- Switches



Car Audio



Networking Switches



Copier

Milli-Grid BMI (Blind Mate Interface) Connectors



Specifications

REFERENCE INFORMATION

Packaging: Tube (Header)/Bulk (Receptacle)
UL File No.: E29179
CSA File No.: 1585720 (LR19980)
Mates With:
 151013 with 151014 housing
 151013 with 51110 housing
Use With:
 51110 housing with 50394 terminals
 151014 housing and 50294 terminals
Terminal Used: Phosphor Bronze
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: No

ELECTRICAL

Voltage (max.): 125V
Current (max.): 2.0A
Contact Resistance: 40 milliohms
Dielectric Withstanding Voltage: 1000V AC (1 minute)
Insulation Resistance: 1000 Megohms

MECHANICAL

Contact Retention to Housing, Header (min.):
 8.5N per pin
Contact Retention to Housing, Receptacle (min.):
 9.8N per pin
Mating Force (max.): 1.9N per pin
Unmating Force (min.): 0.35N per pin
Durability (min.): 25 cycles

PHYSICAL

Housing, Header: LCP, Glass-Filled, UL 94V-0, Black
Housing, Receptacle: PBT, UL 94V-0, Black
Contact: Phosphor Bronze, 0.50mm square
Plating:
 Contact Area — 0.76, 0.38 or 0.05µm Gold
 Solder Tail Area — 1.27µm Mate Tin
 Underplating — 1.27µm Nickel
Operating Temperature: -0 to +75°C

Ordering Information

Series No.	Component	Orientation	Plating Option
151013	PCB Header	Peg	0.76, 0.38 or 0.05µm Gold
151014	Crimp Receptacle Housing	N/A	N/A
50394	Crimp Receptacle Terminal	N/A	0.76, 0.38 or 0.05µm Gold

www.molex.com/product/milligrid.html

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