DATASHEET

Micro-Fit+ Connector System ›

Experience enhanced performance and reliability in a compact form with Micro-Fit+ Connectors. These products reduce the mating force by 40% compared to standard Micro-Fit Connectors, for more reliable assembly. With benefits ranging from cost savings, easy assembly, design flexibility to full compliance with environment health and safety (EH&S) regulations, Micro-Fit+ Connectors meet the rigorous demands associated with miniaturizing energy systems without compromising power.

ADVANTAGES AND FEATURES

Eases assembly for decreasing operator fatigue
The mating force is reduced by 40% compared to standard Micro-Fit, due to its unique design.

Provides design flexibility
These connectors have a smaller PCB footprint for improved manufacturing designs.

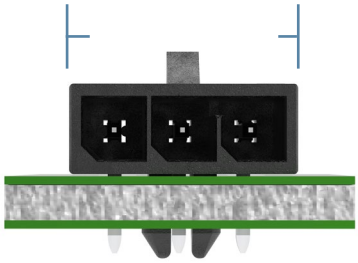
Reduces labor costs and saves time and resources
Reflow options are available.

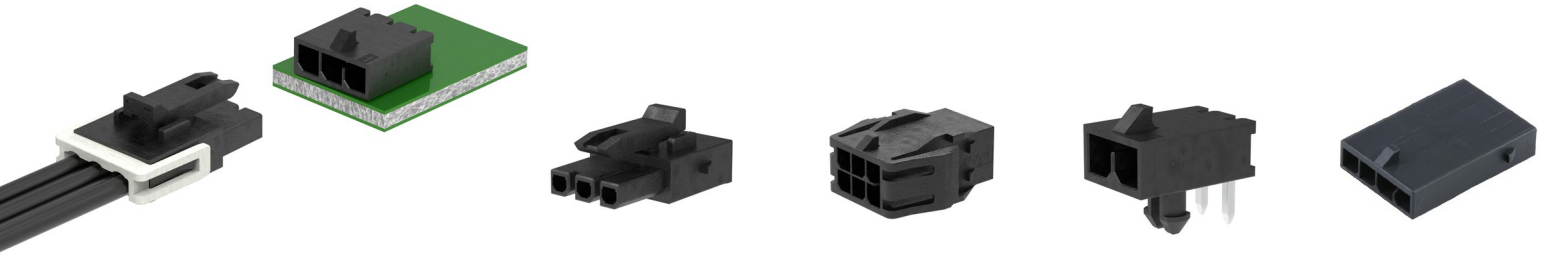
Current (max.)	13.0A
Pitch	3.00mm
Operating temperatures	-40 to 105°C
Voltage (max.)	600V

Helps prevent mis-mating
Using multiple color-keyed options and selective mating, these connectors help ensure operational safety and efficient assembly.

Provides stability and security for the terminals inside the receptacle
Enhanced TPA design promotes easy connector assembly for operators.

Provides design flexibility
The connectors have a small PCB footprint.





ADVANTAGES AND FEATURES
Micro-Fit+ PCIe 12V-2x6 Connectors

Supports ampere interrupting capacities (AICs) up to 675W
Micro-Fit+ Connectors have 9.5A per pin with hybrid 12-power + 4-signal-pin design, utilizing high-current alloy for power pins.

Complies with industry standards
These connectors conform with PCIe CM 5.0/6.0 specifications and Molex-engineered reliabilty.

DATASHEET

Micro-Fit+ Connector System ›

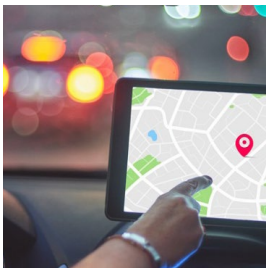
APPLICATIONS

Consumer
Copiers
Freezers
Pinball and slot machines
3D printers
Refrigerators
Vending machines
Video poker and pachinko machines
Washing machines

Automotive
Telemetrics
Non-sealed applications
Interior automotive devices

Networking
Routers and switches
Servers
Storages systems

Freezers



Interior Automotive Devices

Servers

SPECIFICATIONS

Micro-Fit+ Connector System

Reference Information
Packaging: Bag, tray, reel
UL File No.: E29179
CSA File No.: LR19980
Mates With:
Series: 206832 Series: 206461
Series: 215759 Series: 223794
Use With:
Series: 206460 Series: 206461
Series: 206461 Series: 206462
Terminal Used:
Series: 206460
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Capable: Yes

Electrical
Voltage (max.): 600V AC (RMS) or DC
Current (max.): 13.0A
Contact Resistance: 10 milliohms maximum
Dielectric Withstanding Voltage:
No breakdown;
current leakage < 5mA
Insulation Resistance (min.): 1,000 Megohms

Mechanical
Pitch: 3.00mm
Contact Insertion Force (max.): 14.7N (3.3 lbf)
Contact Retention to Housing: 24.5N (5.5 lbf)
Insertion Force to PCB (min.): 13.7N (3.1 lbf)
Mating Force (max.):
7.0N per circuit Tin (Sn)
1.0N per circuit Gold (Au)
Unmating Force (min.):
1.4N per circuit Tin (Sn)
0.2N per circuit Gold (Au)

Physical
Housing: Glass-filled liquid crystal polymer
Contact: High Copper Alloy
Plating: Gold (Au) or Tin (Sn) over Nickel overall
PCB Thickness: Standard 1.57mm
Operating Temperatures: -40 to +105°C

DATASHEET

Micro-Fit+ Connector System ›

SPECIFICATIONS

Micro-Fit+ PCIe 12V-2x6 Connectors

Reference Information

Series: 219116
Mates With:
Series: 219114
Terminal Used:
Series: 220226
Series: 219197

Electrical

Low Level Contact Resistance:
Power Terminal: 5 mΩ Signal
Terminal: 20 mΩ
Insulation Resistance: 1000MΩ min.
Voltage (max.): 600V AC/DC
Current (max.): 9.5A (Power)/1A (Signal)
Dielectric Withstand Voltage: 1500V AC
Temperature Rise: 30°C ma
Rated current up to 9.5 A per contact with all 12 power contacts energized
4 signal contacts rated to 1.0A
Fully isolated terminals
Positive locking on housing with low thumb latch operation

Physical

Header: Liquid crystal polymer, UL 94V-0, black
Header Pin: High Copper Alloy (Cu), Tin (Sn) plating
Receptacle: Nylon, UL 94V-0, low halogen, black
Power Terminal: High-current Cu alloy
Signal Terminal: Phosphorous Bronze

Order No. 987651-9552 Rev. 8 USA/0k/GF/2024.04