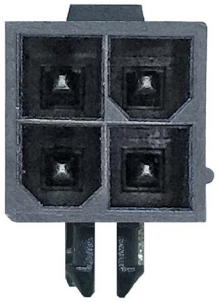
Mini-Fit Connector Family

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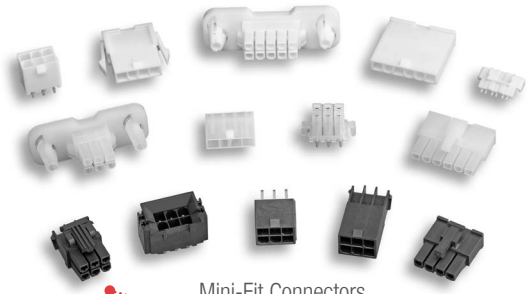
The Mini-Fit Connector Family delivers up to 13.0A, while blind-mating and terminal position assurance options provide a versatile connector system for a wide range of applications

Features and Advantages

Fully isolated terminals
Protect against potential damage during handling



Polarized mating geometry
Ensures header and receptacle cannot be mismated



Mini-Fit Connectors

Receptacles and plugs accept both standard Mini-Fit and Mini-Fit Plug crimp terminals
Reduces the number of parts to be purchased and inventoried

Positive locking housings
Assures connectors are fully mated with easy-to-operate thumb latch. Prevents accidental unmating

Crimp terminals are produced from a proprietary, high-current alloy
Rated up to 13.0A per circuit





Mini-Fit Plus Connectors

Terminals feature a patented, elongated dimple design
Provide long wipe lengths and increased contact area for improved long-term reliability

Select series offer up to 1,500 mating cycles with gold terminals; standard series support 100 mating cycles with gold-plated terminals; 75 mating cycles with tin-plated terminals
Ideal for applications requiring a high number of mating cycles

Self-aligning interface
Enables operator to mate connectors in hard-to-reach areas



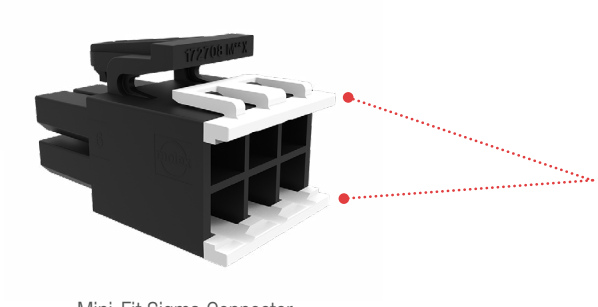


Blind-mating interface
Allows 2.54mm misalignment in x and y axis for all configurations



Backshell option available
Secures cable. Provides strain relief





Mini-Fit Sigma Connector

Terminal position assurance (TPA) with secondary locking feature
Reduces assembly error and ensures terminals are fully seated to prevent end-product failure

Mini-Fit Connector Family

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Applications

Automotive
- Harness manufacturers
- Inside devices
- Non-sealed applications

Commercial Vehicle
- Electronic control modules

Consumer
- Gaming equipment
- Gaming machines
- Vending machines

Data/Communications
- Copiers
- Printers

Home Appliance
- White goods

Industrial
- Industrial equipment
- Power suppliers

Industrial Automation
- Automation equipment
- Food and beverage dispensers

Medical
- Medical devices
- X-rays

Telecommunications/Networking
- Backplanes
- Fan-tray assemblies
- Rack-mount servers
- Routers
- Servers
- Switches



Office Equipment



Industrial Automation



Vending Machines

Specifications

REFERENCE INFORMATION
Packaging: Reel, Bag or Tray
UL File No.: E29179
CSA File No.: LR19980
Mates with: Other Mini-Fit and Mini-Fit Plus Housings
Use With: Mini-Fit and Mini-Fit Plus Terminals
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes, some series
Glow Wire Capable: Yes, some series

ELECTRICAL
Voltage (max.): 600V AC/DC
Current (max.): 9.0A (Mini-Fit); 13.0A (Mini-Fit Plus), 11.5A (Mini-Fit Sigma)
Contact Resistance (max.): 10 milliohm
Dielectric Withstanding Voltage: 2200V AC
Insulation Resistance (min.): 1000 Megohms

MECHANICAL
Contact Insertion Force (max.): 15N
Contact Retention to Housing (min.): 30N
Insertion Force to PCB (max.): 98N
Mating Force (max.): 14.7N
Unmating Force (max.): 1N
Durability (min.): 75 Cycles (Tin); 100 Cycles (Gold), 1,500 for select options (Gold)

PHYSICAL
Flammability: UL 94V-0
Housing: Nylon
Plating:
- Contact Area – Tin (Sn) or Gold (Au)
- Tail Area – Tin (Sn)
- Underplating – Nickel (Ni)

PCB Thickness: Multiple Options
Operating Temperature: -40 to +105°C

www.molex.com/link/minifit.html

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Order No. 987651-8272 Rev. 1 USA/0k/GF/2019.10

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