

Mini-Fit Connector Family

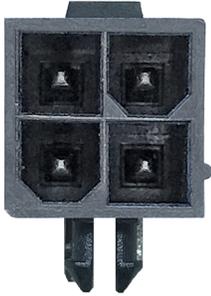


The Mini-Fit Connector Family delivers up to 13.0A, while blind-mating and terminal position assurance options provide a versatile connector system for a wide range of applications

Features and Advantages

Fully isolated terminals

Protect against potential damage during handling



Polarized mating geometry

Ensures header and receptacle cannot be mated



Crimp terminals are produced from a proprietary, high-current alloy

Rated up to 13.0A per circuit

Terminals feature a patented, elongated dimple design

Provide long wipe lengths and increased contact area for improved long-term reliability

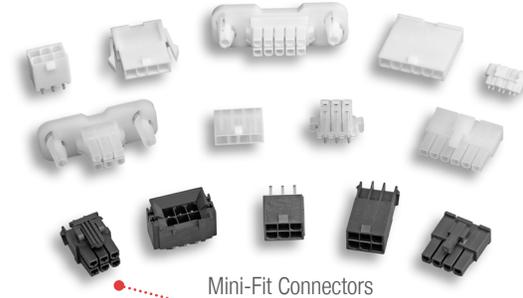
Self-aligning interface

Enables operator to mate connectors in hard-to-reach areas



Backshell option available

Secures cable. Provides strain relief



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. Helps to prevent accidental unmating



Mini-Fit Plus Connectors

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

Blind-mating interface

Allows 2.54mm misalignment in x and y axis for all configurations



Mini-Fit Sigma Connector

Terminal position assurance (TPA) with secondary locking feature

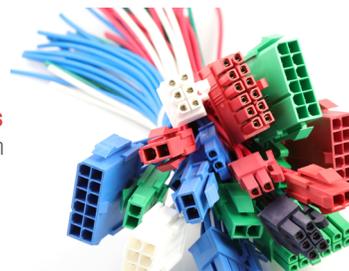
Reduces assembly errors and helps to ensure terminals are fully seated to avoid end-product failure

Panel mount and vertical header options

Maintains current-rating through application surfaces or panels

Visual color pairing (colors can be intermated)

Reduces assembly errors and helps to ensure terminals are fully seated to avoid end-product failure



Robust latch design

Provides superior retention

Mini-Fit Versa Color Connectors

V-0 Glow Wire combination resin

Reduces the cost of materials and labor and allows customers to meet the European standard for electrical requirements



Mini-Fit Sigma Plugs

Mini-Fit Connector Family



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), 11.5A (Mini-Fit Versa Color)
- 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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