

Micro-Fit+ Connector System >

The Micro-Fit+ Connector System offers high current capability in space-constrained applications with a variety of feature options and a 40% reduced mating force for design flexibility and assembly efficiency.

ADVANTAGES AND FEATURES

Helps prevent potential arcing

Fully isolated contacts on each side of the interface

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

V-0/Glow Wire combination resin

Provides stability and security for the terminals inside the receptacle; offers easy assembly for operators

Enhanced Terminal Position Assurance (TPA) design

Prevents mis-mating; different than standard Micro-Fit 3.0

Unique keying design

Offers flexibility in PCB design, with clip and nail SMT options available for improved strength and reliability

Surface-Mount Technology (SMT) and Through-Hole Technology (THT) headers

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

Helps ensure proper mating orientation; not compatible with standard Micro-Fit 3.0 Connectors

Fully polarized housings

Reduces labor costs, saves time and resources; offers a ~260°C reflow-capable temperature

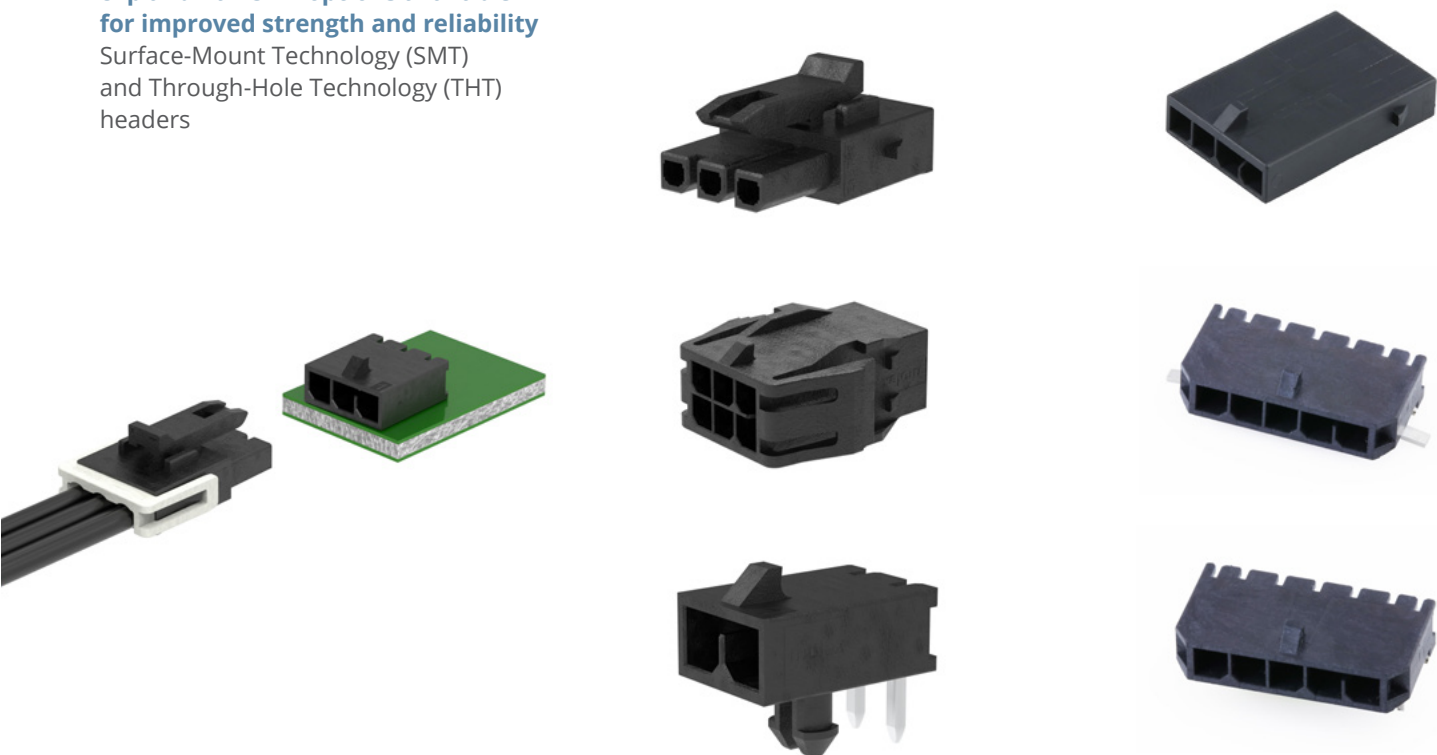
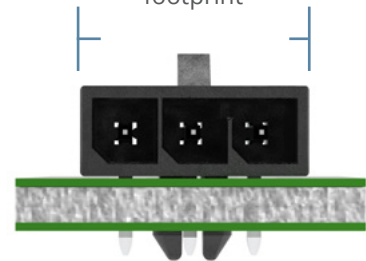
Reflow options available

Allows for ease of work, reducing operator fatigue during assembly with its unique design compared to standard Micro-Fit 3.0

Reduced mating force of 40%

Provides design flexibility

Smaller PCB footprint



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APPLICATIONS

Consumer

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

Telecommunications/ Networking

Routers and switches
Servers
Storage

Medical

Diagnostic equipment
Patient monitors

Sustainable Energy

Solar power

Automotive

Telematics
Non-critical applications



Routers



Appliances



Medical

SPECIFICATIONS

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: 1000 megohms minimum

Mechanical

Pitch: 3.00mm

Contact Insertion Force: 14.7N (3.3 lbf)

Maximum insertion force

Contact Retention to Housing: 24.5N (5.5 lbf)

Insertion Force to PCB: 13.7N (3.1 lbf)

Minimum retention force

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 Temperature: -40 to +105°C

www.molex.com/link/microfitplus.html