

Micro-Fit* TPA Single-Row Receptacle



Micro-Fit* TPA Single-Row Receptacle features a one-piece housing design with an integrated secondary lock to ensure proper mating and prevent terminal back-outs

Features and Benefits

Terminal position assurance (TPA) with integrated secondary lock

Reduces assembly error that results in terminal back-outs

Compatible with all existing Micro-Fit* 3.0 headers and plugs

Enables customers to implement running change to incorporate the TPA design. Removes the need to change both sides of the interface or to make significant revisions or investments in their applications.

One-piece housing and terminal lock design

Eliminates secondary pieces, which can be lost

Single-row, wire-to-wire and wire-to-board configurations immediately available with 2 to 7 circuits; Contact Molex for 8 to 12 circuits

Provides design flexibility

Fully polarized housings

Prevent accidental mis-mating

Utilizes all existing Micro-Fit* 3.0 crimp terminals

Removes the need for additional investments in new application tooling

Fully isolated contacts on each side of the interface

Prevent potential arcing



Micro-Fit* TPA Single-Row Receptacle

Applications

Consumer / Home Appliance

- Harness Manufacturers
- Appliances

Data / Computing

- Harness Manufacturers
- Desktops
- Workstations
- Power Supplies
- Uninterruptible Power Supply (UPS)

Telecommunications / Networking

- Harness Manufacturers
- Servers
- Routers
- Switches

Automotive / Commercial Vehicle

- Harness Manufacturers
- Non-Sealed Applications
- Inside Devices



Workstation



Washing Machine



Servers

Micro-Fit* TPA Single-Row Receptacle



Specifications

REFERENCE INFORMATION

Packaging:
UL File No.: E29179
CSA File No.: LR19980
Mates With: Micro-Fit* 3.0 Single-Row Plug
(Series [43640](#)) and Header (Series [43650](#))
Terminal Used: Micro-Fit* 3.0 female crimp terminals
(Series [43030](#), [46235](#), [45807](#))
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Compliant: Option Available, Contact Molex

ELECTRICAL

Voltage (max.): 600V
Current (max.): 5.0 to 10.0A (Please see product specifications; determined by terminal used)
Contact Resistance (max.): 10 milliohms
Dielectric Withstanding Voltage: <5mA
Insulation Resistance (min.): 1,000 Megohms

MECHANICAL

Contact Insertion Force (max.): 14.7N
Contact Retention to Housing (min.): 24.5N
Mating Force (max.): 8N per circuit
Unmating Force (min.): 3.7N per circuit
Durability (max.): 30 cycles

PHYSICAL

Housing: Nylon
Contact: Various
(Phosphor Bronze, Copper Alloy – see Product Specifications for Particular Connector System)
Operating Temperature: -40 to +105°C

Ordering Information

Series No.	Configuration	Circuits
171850	Wire-to-Wire, Wire-to-Board	2 to 7

Series No.	Configuration	Circuits
Contact Molex	Wire-to-Wire, Wire-to-Board	8 to 12

Mates with Micro-Fit* 3.0 Single-Row Plugs and Headers

Series No.	Configuration	Circuits
43640	Single-Row Plug Housing	2 to 12
43650	Single-Row Right-Angle and Vertical Header	2 to 12

Uses Micro-Fit* 3.0 Female Crimp Terminals

Series No.	Wire Size (AWG)	Plating Option
43030	20 to 30	Gold or Tin
46235	20 to 30	Gold

*Micro-Fit is a trademark of Molex, LLC in the United States and may be registered in certain jurisdictions.

www.molex.com/link/microfit30.html