

# Micro-Fit\* TPA Single Row Receptacle

**molex**<sup>®</sup>

**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

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## 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
<a href="#">171850</a>	Wire-to-Wire, Wire-to-Board	2 to 7

Series No.	Configuration	Circuits
<a href="#">Contact Molex</a>	Wire-to-Wire, Wire-to-Board	8 to 12

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

Series No.	Configuration	Circuits
<a href="#">43640</a>	Single Row Plug Housing	2 to 12
<a href="#">43650</a>	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
<a href="#">43030</a>	20 to 30	Gold or Tin
<a href="#">46235</a>	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](http://www.molex.com/link/microfit30.html)