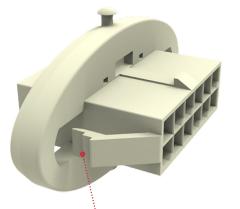
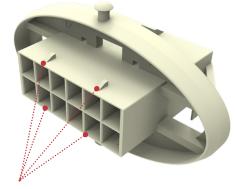
# **Mini-Fit Sigma Sealed Power Connectors**

Mini-Fit Sigma Sealed Wire-to-Wire Connectors utilize traditional Mini-Fit TPA2 terminals and wire gauges while providing protection from moisture, foam and dust debris ingress

### **Housing Features and Advantages**



Panel Mount Ears Recommended panel cut-outs for 0.89mm to 3.00mm thick panels Panel cut-out tolerances +0.10mm Provides safety, and stability of housing to the panel



Keying and polarization

to standard Mini-Fit 4.2

**Power Connectors** 

Allows for accurate mating

**TPA supports** Used to properly support the optional TPAs after terminals are inserted and seated into the housing





Mini-Fit Sigma Sealed Assembly



Mini-Fit Sigma Sealed Housing



Mini-Fit Sigma Sealed Cap



Mini-Fit Sigma Sealed TPA

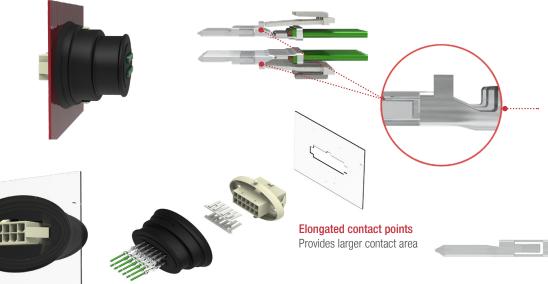
#### TPA stop

Provides stability for the terminal in the receptacle housing. Offers a physical block for the terminals to back out if a TPA is properly inserted

#### Seal cap supports

Provides excellent support for the rubber cap that mounts around the back of the housing.

# **Features and Advantages**



# **Mini-Fit Sigma Sealed Power Connectors**

# molex

# **Markets and Applications**

#### Home Appliance

Refrigerators Ovens

- Dishwashers
- **Consumer and Commercial**

Air duct machines Air conditioners HVAC units

#### Industrial Automation

Robotic arm

Drives and conveyer lines

Motors

Process control



Robotic Arm



White Goods



Vending Machine

# **Specifications**

#### **REFERENCE INFORMATION**

Packaging: Bag, Reel UL File No.: E29179 CSA File No.: LR19980 Mates With: All Applicable Mini-Fit Connectors Use With: TPA: 172709, CAP: 207019 Terminal Used: 172718, 172765 Designed In: Millimeters RoHS: Yes Halogen Free: Yes Glow Wire Capable: Yes

#### ELECTRICAL

Voltage (max.): 600V AC (rms) / DC Current (max.): 13.0A Contact Resistance (max.): 10 milliohms Dielectric Withstanding Voltage: No breakdown. Current leakage < 5 mA Insulation Resistance (min.): 1000 megohms

#### MECHANICAL

Contact Insertion Force (max.): 15.0 N Contact Retention to Housing (min.): 30.0 N Insertion Force to PCB (max.): 225 N PCB Retention Force (min.): 100 N Foam Leakage Test: See Product Spec Durability: 8 Hours Shock (max.): 20 milliohms

#### PHYSICAL

Pitch: 4.20mm Wire Gauge: 16 to 24AWG PCB Thickness: 0.89 to 3.00mm thick Operating Temperature: -40 to +105°C

# www.molex.com/link/minifit.html

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