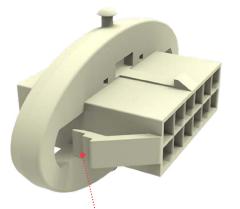
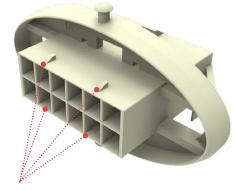
Mini-Fit Sigma Sealed Power Connectors

Mini-Fit Sigma Sealed Wire-to-Wire Connectors utilize traditional Mini-Fit TPA2 terminals and wire gauges while providing protection from water, 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



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







Elongated contact points Provides larger contact area

Keying and polarization

to standard Mini-Fit 3.0

Power Connectors

Allows for accurate mating

Mini-Fit Sigma Sealed Power Connectors

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Markets and Applications

Commercial Vehicle

- Buses
- Trains
- Boats
- Emergency vehicles
- Refrigeration vehicles
- Agriculture vehicles

Home Appliance

- Refrigerators
- Ovens
- Dishwashers

Consumer

Vending machines

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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