

Datasheet for 76650-0017

**General Information**

**Part Number:** 76650-0017  
**Manufacturer:** Molex / Waldom  
**Title:** Mini-Fit Jr. Power Connector Kit  
**Description:** Free Hanging Plug and Receptacle, 3-9 A 250V  
**Product Family:** Mini-Fit Jr.™  
**Certificates:** (Molex parts within this kit) - EU and China RoHS, UL, CSA and TUV  
**Country of Origin:** Kit assembled in U.S.A.

**Specifications**

**Design**

**Configuration:** Wire-to-Wire  
**Pitch:** 4.20mm (.165")  
**Connector Type:** Plug and Receptacle

**Mounting**

**Orientation:** Free Hanging  
**Circuit Sizes:** 2, 3, 4, 6, 8, 10, 12, 14, 16, 18 and 20  
**Current Rating:** (3 - 9) Amps dependent on AWG and circuit size  
**Voltage:** 600 Volts  
**Wire size:** 24-18 AWG

**Product Highlights**

The Mini-Fit Jr. Series is designed for high current/high density applications. The Mini-Fit Jr. is appropriate for both power and signal applications as it can carry currents of up to 9 amps per circuit. The Mini-Fit product family accepts the same terminals and application tooling, further reducing your design and qualification effort.

**Features and Benefits**

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals

**Applications**

- Security and Alarms
- Vending and Gaming Machines
- White Goods
- Production Equipment
- Broadcast Equipment
- Telecom Infrastructure

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**Bill of Materials for Part No. 76650-0017**

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>	<b>Quantity in Kit</b>
39-00-0039	USA	Crimp Type Female Socket Terminals, 24-18 AWG	100
39-00-0041	USA	Crimp Type Male Pin Terminals, 24-18 AWG	100
39-01-2020	USA	4.2mm (.165") Pitch 2 Circuit Free Hanging Receptacle	5
39-01-2040	USA	4.2mm (.165") Pitch 4 Circuit Free Hanging Receptacle	5
39-01-2060	USA	4.2mm (.165") Pitch 6 Circuit Free Hanging Receptacle	5
39-01-2080	USA	4.2mm (.165") Pitch 8 Circuit Free Hanging Receptacle	5
39-01-2100	USA	4.2mm (.165") Pitch 10 Circuit Free Hanging Receptacle	5
39-01-2120	USA	4.2mm (.165") Pitch 12 Circuit Free Hanging Receptacle	4
39-01-2140	USA	4.2mm (.165") Pitch 14 Circuit Free Hanging Receptacle	3
39-01-2160	China	4.2mm (.165") Pitch 16 Circuit Free Hanging Receptacle	3
39-01-2180	USA	4.2mm (.165") Pitch 18 Circuit Free Hanging Receptacle	3
39-01-2200	USA	4.2mm (.165") Pitch 20 Circuit Free Hanging Receptacle	3
39-01-3023	USA	4.2mm (.165") Pitch 2 Circuit Free-hanging Plug	5
39-01-3043	USA	4.2mm (.165") Pitch 4 Circuit Free-hanging Plug	5
39-01-3063	USA	4.2mm (.165") Pitch 6 Circuit Free-hanging Plug	5
39-01-3083	USA	4.2mm (.165") Pitch 8 Circuit Free-hanging Plug	5
39-01-3103	USA	4.2mm (.165") Pitch 10 Circuit Free-hanging Plug	5
39-01-3123	USA	4.2mm (.165") Pitch 12 Circuit Free-hanging Plug	4
39-01-3143	USA	4.2mm (.165") Pitch 14 Circuit Free-hanging Plug	3
39-01-3163	USA	4.2mm (.165") Pitch 16 Circuit Free-hanging Plug	3
39-01-2181	USA	4.2mm (.165") Pitch 18 Circuit Panel Mount Plug	3
39-01-2201	USA	4.2mm (.165") Pitch 20 Circuit Panel Mount Plug	3

**Recommended Molex Tool(s) for Part No. 76650-0017\***

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
63819-0900 *	Sweden	Hand Crimp Tool
11-03-0044 *	Sweden	Extraction Tool

\*Tool(s) not included in kit. Tool(s) ordered separately.

**For additional Molex / Waldom Design and Solution kits please go to [www.molexkits.com](http://www.molexkits.com)**