

## Datasheet for 76650-0017

### General Information

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

### Specifications

#### Design

|                        |                     |
|------------------------|---------------------|
| <b>Configuration:</b>  | Wire-to-Wire        |
| <b>Pitch:</b>          | 4.20mm (.165")      |
| <b>Connector Type:</b> | Plug and Receptacle |

#### Mounting

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

| Molex Part No. | Country of Origin | Description                                            | Quantity in Kit |
|----------------|-------------------|--------------------------------------------------------|-----------------|
| 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\*

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

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