

Datasheet for 76650-0231

General Information

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|---------------------------|--|
| Kit Part Number: | 76650-0231 |
| Connector Type: | Wire-to-Wire |
| Solution: | Power Solutions |
| Molex Family: | Micro-Fit 3.0™, Mini-Fit Jr.™, Mini-Fit Sr.™, Sabre™ |
| Certificates: | N/A |
| Country of Origin: | Kit assembled in U.S.A |

Specifications

| | |
|--------------------------|---|
| Circuit Size: | 2, 3, 4, 6 |
| Current Rating: | 12-18A, 23-33A, 3-9A |
| Mounting Style: | Free-Hanging, Panel Mount |
| Orientation: | Plugs, Receptacles |
| Pitch: | 10.00mm (.393"), 3.00mm (.118"), 4.20mm (.165"), 7.50mm (.295") |
| Tool Included: | No |
| Voltage Rating: | 250V, 600V |
| Wire Gauge (AWG): | 12-10, 18-14, 24-18, 24-20 |

Product Highlights

The Sabre™ housings provide a lower-cost option to compete with connectors offering a similar voltage and current rating. The Sabre™ system is a robust, highpower connector, supplying up to 18 amperes per circuit. The Sabre™ power connector system provides design flexibility by accepting a wide range of wire gauges and insulation thicknesses. The Micro-Fit 3.0™ is a unique interconnect system designed to meet the need for a high contact density signal or power connector and incorporates many of the features previously found on larger power connectors. These 3.00mm (.118") pitch connectors are the perfect choice when you need compact connectors that carry up to 5 amperes of current. 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.

Features and Benefits

- Fully isolated terminals
- Polarized housing assures proper mating
- Four point of contact for reliability
- Low engagement force terminals
- Box-type spring contact for high normal force
- Positive latching to mate, prevents accidental disconnects
- Positive housing locks
- Design Flexibility

Applications

- Power Supplies
- Vending and Gaming
- White Goods
- High End Computer
- Office Equipment

- Retail Security Scanning Systems
- Medical Equipment
- Air Conditioners
- Power Supplies, Generators, Battery Chargers
- Security and Alarms
- HVAC equipment
- Production Equipment
- Automotive Aftermarket
- Deep Well Pumps
- Welders
- Lighting
- Home Entertainment
- Factory Automation Equipment
- Fan Tray Assemblies
- Computers and Workstations
- Residential or commercial appliances
- Fitness equipment
- Broadcast Equipment
- Telecom Infrastructure
- Construction Signs
- Handheld Devices
- Stadium Lighting and Scoreboards
- Networking equipment
- Other High Amperage Devices

Bill of Materials

| Molex Part No. | Description | Quantity |
|----------------|--|----------|
| 42816-0212 | 10mm (.393") Mini-Fit Sr.™ Receptacle, 2 Circuits | 2 |
| 42817-0011 | Mini-Fit Sr.™ Male Pin Terminal, 12-10 AWG | 15 |
| 42815-0011 | Mini-Fit Sr.™ Female Socket Terminal, 12-10 AWG | 15 |
| 42816-0312 | 10mm (.393") Mini-Fit Sr.™ Receptacle, 3 Circuits | 2 |
| 42816-0412 | 10mm (.393") Mini-Fit Sr.™ Receptacle, 4 Circuits | 2 |
| 42818-0212 | 10mm (.393") Mini-Fit Sr.™ Plug, 2 Circuits | 2 |
| 42818-0312 | 10mm (.393") Mini-Fit Sr.™ Plug, 3 Circuits | 2 |
| 42818-0412 | 10mm (.393") Mini-Fit Sr.™ Plug, 4 Circuits | 2 |
| 43178-2002 | Male Crimp Sabre™ Terminal 18-14 AWG, 4.57mm (.180") Maximum Insulation Diameter | 25 |
| 43375-1001 | Female Crimp Sabre™ Terminal 18-14 AWG, 4.57mm (.180") Maximum Insulation Diameter | 25 |
| 44441-2002 | 2 Circuit 7.50mm (.295") Pitch Sabre™ Receptacle | 2 |
| 44441-2003 | 3 Circuit 7.50mm (.295") Pitch Sabre™ Receptacle | 2 |
| 44441-2004 | 4 Circuit 7.50mm (.295") Pitch Sabre™ Receptacle | 2 |
| 43680-2002 | 2 Circuit 7.50mm (.295") Pitch Sabre™ Plug | 2 |
| 43680-2003 | 3 Circuit 7.50mm (.295") Pitch Sabre™ Plug | 2 |
| 43680-2004 | 4 Circuit 7.50mm (.295") Pitch Sabre™ Plug | 2 |
| 39-00-0039 | Crimp Type Female Socket Terminal, 24-18 AWG | 50 |
| 39-00-0041 | 1.57mm (.062") Diameter Crimp Type Male Pin Terminal, 24-18 AWG | 50 |
| 39-01-2020 | 4.20mm (.165") Pitch, 2 Circuit, Free-Hanging Receptacle | 4 |
| 39-01-2040 | 4.20mm (.165") Pitch, 4 Circuit, Free-Hanging Receptacle | 4 |
| 39-01-2060 | 4.20mm (.165") Pitch 6 Circuit Free Hanging Receptacle | 2 |
| 39-01-2021 | 4.20mm (.165") Pitch, 2 Circuit, Panel Mount Plug | 4 |
| 39-01-2041 | 4.20mm (.165") Pitch, 4 Circuit, Panel Mount Plug | 4 |
| 39-01-2061 | 4.20mm (.165") Pitch, 6 Circuit, Panel-Mount Plug | 2 |
| 43030-0007 | Micro-Fit 3.0™ Crimp Terminal, Female, 24-20 AWG | 50 |
| 43031-0007 | Micro-Fit 3.0™ Crimp Terminal, Male, 24-20 AWG | 50 |
| 43645-0200 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 2 Circuits | 4 |
| 43645-0300 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 3 Circuits | 2 |
| 43645-0400 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 4 Circuits | 2 |
| 43645-0600 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 6 Circuits | 2 |
| 43640-0201 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 2 Circuits | 4 |
| 43640-0301 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 3 Circuits | 2 |
| 43640-0401 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 4 Circuits | 2 |
| 43640-0601 | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 6 Circuits | 2 |

Recommended Molex Tool

| Molex Part No. | Description |
|----------------|-------------|
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