

## Excellent Integrated System Limited

Stocking Distributor

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[Molex Connector Corporation](#)  
[76650-0231](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

## Datasheet for 76650-0231

### General Information

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

### Specifications

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