

## Datasheet for 76650-0220

### General Information

<b>Kit Part Number:</b>	76650-0220
<b>Connector Type:</b>	Wire-to-Board, Wire-to-Wire
<b>Solution:</b>	Power Connectors
<b>Molex Family:</b>	Mini-Fit Sr.™
<b>Certificates:</b>	N/A
<b>Country of Origin:</b>	Kit assembled in U.S.A

### Specifications

<b>Circuit Size:</b>	2, 3, 4
<b>Current Rating:</b>	23-33A
<b>Mounting Style:</b>	PCB Through Hole
<b>Orientation:</b>	Plugs, Receptacles, Right Angle Headers
<b>Pitch:</b>	10.00mm (.393")
<b>Tool Included:</b>	No
<b>Voltage Rating:</b>	600V
<b>Wire Gauge (AWG):</b>	12-10

### Product Highlights

Need for power connectors above 20 Amps. Lower mating forces with increased reliability. More current packed into fewer lines. The system is UL, CSA and TUV approved. -40 Degrees C to +105 Degrees C. These Gold Plated parts do not need Nyogel coating, as with tin plated parts, to help resist fretting corrosion in applications where vibration is present.

#### Features and Benefits

- High current
- Fully polarized, Prevents Mis-Mating
- Positive Locks, Secure Mating, guards against accidental disengagement of housings
- Low engagement force for greater ease in mating
- Includes mandatory Terminal Position Assurance (TPA) clip
- Fully-Isolated Contacts, Withstand Reflow Process
- Four points of electrical contact provide high reliability
- Design Flexibility
- Metal board retention clip

#### Applications

- High-end Computers
- Power Supplies, Generators, Battery Chargers
- Factory Automation Machines
- Cellular Base Station
- Air Conditioners
- Telecom Backplane
- Stadium Lighting and Scoreboards
- Medical Equipment

<http://www.molexkits.com>

- Power Station
- Deep Well Pumps
- Welders
- Construction Signs
- Other High Amperage Devices
- HVAC

<http://www.molexkits.com>

**Bill of Materials**

Molex Part No.	Description	Quantity
42815-0012	Female Socket Terminal, 12-10 AWG, Selective Gold	25
42816-0212	10mm (.393") Mini-Fit Sr.™ Receptacle, 2 Circuits	4
42816-0312	10mm (.393") Mini-Fit Sr.™ Receptacle, 3 Circuits	4
42816-0412	10mm (.393") Mini-Fit Sr.™ Receptacle, 4 Circuits	2
42817-0012	Male Pin Terminal, 12-10 AWG, Selective Gold	15
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	1
42820-2213	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header, 2 Circuits, 1.57mm (.062") PCB	2
42820-3213	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header, 3 Circuits, 1.57mm (.062") PCB	2
42820-4213	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header, 4 Circuits, 1.57mm (.062") PCB	1

**Recommended Molex Tool**

Molex Part No.	Description
63811-1600 (not included in kit)	<a href="#">Click for more info</a>
63813-0400 (not included in kit)	<a href="#">Click for more info</a>