



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**Datasheet for 76650-0220**

**General Information**

**Part Number:** 76650-0220  
**Manufacturer:** Molex / Waldom  
**Title:** Mini-Fit Sr. Power Connector Kit  
**Description:** Gold Right Angle Header, Plug and Receptacle  
**Product Family:** Mini-Fit Sr.™  
**Certificates:** (Molex Parts within this kit) - EU RoHS Compliant, UL, CSA and TUV  
**Country of Origin:** Kit assembled in U.S.A.

**Specifications**

**Design Configuration:** (Wire-to-Wire) and (Wire-to-Board)  
**Pitch:** 10mm (.393")  
**Connector Type:** Plugs and Receptacles  
**Circuit Sizes:** 2, 3 and 4  
**Current Rating:** (23 - 33) Amps - Depending on Wire Gauge  
**Voltage:** 600 Volts  
**Wire size:** 12-10 AWG

**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	Applications
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- 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

- High-end Computers
- Power Supplies, Generators, Battery Chargers
- Factory Automation Machines
- Cellular Base Station
- Air Conditioners
- Telecom Backplane
- Stadium Lighting and Scoreboards
- Medical Equipment
- Power Station
- Deep Well Pumps
- Welders
- Construction Signs
- Other High Amperage Devices
- HVAC

**Bill of Materials for Part No. 76650-0220**

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

**Datasheet for 76650-0220**

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>	<b>Quantity in Kit</b>
42815-0012	USA	Female Socket Terminals, 12-10 AWG, Selective Gold	25
42816-0212	USA	10mm (.393") Pitch Mini-Fit Sr.™ Receptacle 2 Circuit	4
42816-0312	USA	10mm (.393") Pitch Mini-Fit Sr.™ Receptacle 3 Circuit	4
42816-0412	USA	10mm (.393") Pitch Mini-Fit Sr.™ Receptacle 4 Circuit	2
42817-0012	USA	Male Pin Terminals, 12-10 AWG, Selective Gold	15
42818-0212	USA	10mm (.393") Pitch Mini-Fit Sr.™ Plug 2 Circuit	2
42818-0312	USA	10mm (.393") Pitch Mini-Fit Sr.™ Plug 3 Circuit	2
42818-0412	USA	10mm (.393") Pitch Mini-Fit Sr.™ Plug 4 Circuit	1
42820-2213	Mexico	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header 2 Circuit .062" PCB	2
42820-3213	Mexico	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header 3 Circuit .062" PCB	2
42820-4213	Mexico	10mm (.393") Pitch Mini-Fit Sr.™ Right Angle Gold Header 4 Circuit .062" PCB	1

**Recommended Molex Tool(s) for Part No. 76650-0220\***

<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>
63811-1600 *	Germany	Hand Crimper
63813-0400 *	USA	Extraction Tool

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