

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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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)

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

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

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