

Datasheet for 76650-0002

General Information

Part Number:	76650-0002
Manufacturer:	Molex / Waldom
Title:	Mini-Fit Sr. Power Connector Kit
Description:	Fully Polarized Single Row 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
Pitch:	10mm (.393")
Connector Type:	Plugs and Receptacles
Circuit Sizes:	2, 3, 4 and 6
Current Rating:	(23 - 33) Amps - Depending on circuit size and 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

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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 	<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. 76650-0002

Molex Part No.	Country of Origin	Description	Quantity in Kit
42815-0011	USA	Mini-Fit Sr.™ Female Socket Terminals, 12-10 AWG	25
42816-0212	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 2 Circuit	3
42816-0312	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 3 Circuit	3
42816-0412	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 4 Circuit	2
42816-0612	USA	10mm (.393") Mini-Fit Sr.™ Receptacle 6 Circuit	2
42817-0011	USA	Mini-Fit Sr.™ Male Pin Terminals, 12-10 AWG	25
42818-0212	USA	10mm (.393") Mini-Fit Sr.™ Plug 2 Circuit	3
42818-0312	USA	10mm (.393") Mini-Fit Sr.™ Plug 3 Circuit	3
42818-0412	USA	10mm (.393") Mini-Fit Sr.™ Plug 4 Circuit	2
42818-0612	USA	10mm (.393") Mini-Fit Sr.™ Plug 6 Circuit	2

Recommended Molex Tool(s) for Part No. 76650-0002*

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.