1801 Morgan Street Rockford, Illinois 61102 800-435-2931 www.molexkits.com



## **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



## **Datasheet for 76650-0002**

#### **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

## **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
- 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\*

	Country	
olex Part No.	of Origin	Description

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

<sup>\*</sup>Tool(s) not included in kit. Tool(s) ordered separately.

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