

Datasheet for 76650-0016

General Information

Part Number:	76650-0016
Manufacturer:	Molex / Waldom
Title:	Mini-Fit Jr. Power Connector Kit
Description:	Right Angle Header and Receptacle
Product Family:	Mini-Fit Jr.™
Certificates:	(Molex parts within this kit) - EU and China RoHS, UL, CSA and TUV
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design

Configuration:	Wire-to-Board
Pitch:	4.20mm (.165")
Connector Type:	Receptacle and Header

Mounting

Orientation:	Right Angle
Circuit Sizes:	2, 3, 4, 6, 8, 10, 12, 14, 16, 18 and 20
Current Rating:	(3 - 9) Amps dependent on AWG and circuit size
Voltage:	600 Volts
Wire size:	24-18 AWG

Product Highlights

The Mini-Fit Jr. Series is designed for high current/high density applications. The Mini-Fit Jr. is appropriate for both power and signal applications as it can carry currents of up to 8 amps per circuit. The Mini-Fit product family accepts the same terminals and application tooling, further reducing your design and qualification effort.

Features and Benefits

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals

Applications

- Security and Alarms
- Vending and Gaming Machines
- White Goods
- Production Equipment
- Broadcast Equipment
- Telecom Infrastructure

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

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Bill of Materials for Part No. 76650-0016

Molex Part No.	Country of Origin	Description	Quantity in Kit
39-00-0039	USA	Crimp Type Female Socket Terminals, 24-18 AWG	100
39-01-2020	USA	4.2mm (.165") Pitch 2 Circuit Free Hanging Receptacle	5
39-01-2040	USA	4.2mm (.165") Pitch 4 Circuit Free Hanging Receptacle	5
39-01-2060	USA	4.2mm (.165") Pitch 6 Circuit Free Hanging Receptacle	5
39-01-2080	USA	4.2mm (.165") Pitch 8 Circuit Free Hanging Receptacle	5
39-01-2100	USA	4.2mm (.165") Pitch 10 Circuit Free Hanging Receptacle	5
39-01-2120	USA	4.2mm (.165") Pitch 12 Circuit Free Hanging Receptacle	4
39-01-2140	USA	4.2mm (.165") Pitch 14 Circuit Free Hanging Receptacle	3
39-01-2160	China	4.2mm (.165") Pitch 16 Circuit Free Hanging Receptacle	3
39-01-2180	USA	4.2mm (.165") Pitch 18 Circuit Free Hanging Receptacle	3
39-01-2200	USA	4.2mm (.165") Pitch 20 Circuit Free Hanging Receptacle	3
39-29-1028	Mexico	4.2mm (.165") Pitch 2 Circuit Dual Row Right Angle Header	5
39-29-1048	Mexico	4.2mm (.165") Pitch 4 Circuit Dual Row Right Angle Header	5
39-29-1068	Mexico	4.2mm (.165") Pitch 6 Circuit Dual Row Right Angle Header	5
39-29-1088	Mexico	4.2mm (.165") Pitch 8 Circuit Dual Row Right Angle Header	5
39-29-1108	Mexico	4.2mm (.165") Pitch 10 Circuit Dual Row Right Angle Header	5
39-29-1128	Mexico	4.2mm (.165") Pitch 12 Circuit Dual Row Right Angle Header	4
39-29-1148	Mexico	4.2mm (.165") Pitch 14 Circuit Dual Row Right Angle Header	3
39-29-1168	Mexico	4.2mm (.165") Pitch 16 Circuit Dual Row Right Angle Header	3
39-29-1188	Mexico	4.2mm (.165") Pitch 18 Circuit Dual Row Right Angle Header	3
39-29-1208	Mexico	4.2mm (.165") Pitch 20 Circuit Dual Row Right Angle Header	3

Recommended Molex Tool(s) for Part No. 76650-0016*

Molex Part No.	Country of Origin	Description
63819-0900 *	Sweden	Hand Crimp Tool
11-03-0044 *	Sweden	Extraction Tool

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

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