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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 76650-0158

### General Information

<b>Part Number:</b>	76650-0158
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	Mini-Fit BMI Connector Kit
<b>Description:</b>	Blind Mate Vertical and Right Angle Header, Vertical Receptacle Header, Plug and Receptacle
<b>Product Family:</b>	Mini-Fit BMI™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant, UL and CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	(Wire-to-Board), (Wire-to-Wire) and (Board-to-Board)
<b>Pitch:</b>	4.20mm (.165")
<b>Connector Type:</b>	Receptacles, Plugs and Headers
<b>Circuit Sizes:</b>	4, 6, 8, 10, 14 and 18
<b>Current Rating:</b>	6 Amps
<b>Voltage:</b>	600 Volts
<b>Wire size:</b>	24-18 AWG

### Product Highlights

The Mini-Fit BMI™ is designed for high current/high density applications requiring the blind mating of modules, subassemblies or printed circuit boards. The Mini-Fit BMI™ allows a misalignment of up to .100". It is appropriate for both power and signal applications as it can carry currents of up to 9.0A per circuit and has a 10mW contact resistance. Mini-Fit BMI™ accepts the same terminals and application tooling as for the Mini-Fit product family, further reducing your design and qualification effort.

### Features and Benefits

### Applications

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

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- Blindmating Capabilities
- Fully isolated terminals to protect contacts from damage
- Positive housing locks to mate with Mini-Fit Jr.
- Standard with drain holes to allow PCB washing after wave soldering
- Low engagement force terminals

- Security and Alarms
- Vending and Gaming
- White Goods
- High End Computer
- Business Machines
- Storage
- Energy and Power
- Environmental Equipment and Controls
- Production Equipment
- Broadcast Equipment
- Telecom Infrastructure

**Bill of Materials for Part No. 76650-0158**

Molex Part No.	Country of Origin	Description	Quantity in Kit
39-00-0039-C	USA	Female Crimp Terminals 18-24 AWG	100
39-00-0041-C	USA	Male Crimp Terminals 18-24 AWG	100
15-06-0040	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 4 Circuits	3
15-06-0060	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 6 Circuits	3
15-06-0080	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 8 Circuits	2
15-06-0100	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 10 Circuits	2
15-06-0140	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 14 Circuits	2
15-06-0180	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 18 Circuits	2
15-06-0045	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 4 Circuits	3
15-06-0065	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 6 Circuits	3
15-06-0085	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 8 Circuits	2
15-06-0105	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 10 Circuits	2
15-06-0145	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 14 Circuits	2
15-06-0185	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount 18 Circuits	2
15-24-6040	USA	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 4 Circuits Tin Plating	2

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15-24-6060	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 6 Circuits Tin Plating	2
15-24-6100	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 10 Circuits Tin Plating	2
15-24-6140	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 14 Circuits Tin Plating	2
15-24-6180	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 18 Circuits Tin Plating	2
15-24-6046	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 4 Circuits Tin Plating	2
15-24-6066	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 6 Circuits Tin Plating	2
15-24-6106	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 10 Circuits Tin Plating	2
15-24-6146	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 14 Circuits Tin Plating	2
15-24-6186	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 18 Circuits Tin Plating	2
15-24-7040^	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 4 Circuits	1
15-24-7060^	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 6 Circuits	1
15-24-7100^	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 10 Circuits	1
15-24-7140^	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 14 Circuits	1
15-24-7180^	Mexico	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 18 Circuits	1

^ Note: 42385 (series) Receptacle Headers do not mate with Mini-Fit Jr.™ products, and are not inherently blindmating. Guidance to align the connectors during mating and float to provide stress-free positioning after mating must be provided

**Recommended Molex Tool(s) for Part No. 76650-0158\***

Molex Part No.	Country of Origin	Description
63819-0900 *	Sweden	Hand Crimp Tool
11-03-0044 *	USA	Extraction Tool
57031-6000 *	USA	Japan - Hand Extraction Tool

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