

Datasheet for 76650-0158

General Information

Kit Part Number:	76650-0158
Connector Type:	Board-to-Board, Wire-to-Board, Wire-to-Wire
Solution:	Blind-Mate Connectors
Molex Family:	Mini-Fit BMI™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	10, 14, 18, 4, 6, 8
Current Rating:	6A
Mounting Style:	PCB Through Hole
Orientation:	Assorted Vertical, Plugs, Receptacles, Right Angle Headers
Pitch:	4.20mm (.165")
Tool Included:	No
Voltage Rating:	600V
Wire Gauge (AWG):	24-18

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 2.54mm (.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

- Blind mating 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

Applications

- 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

Molex Part No.	Description	Quantity
15-24-7040	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 4 Circuits	1
39-00-0039	Crimp Type Female Socket Terminal, 24-18 AWG	100
39-00-0041	1.57mm (.062") Diameter Crimp Type Male Pin Terminal, 24-18 AWG	100
15-06-0040	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 4 Circuits	3
15-06-0060	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 6 Circuits	3
15-06-0080	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 8 Circuits	2
15-06-0100	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 10 Circuits	2
15-06-0140	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 14 Circuits	2
15-06-0045	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 4 Circuits	3
15-06-0065	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 6 Circuits	3
15-06-0085	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 8 Circuits	3
15-06-0105	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 10 Circuits	2
15-06-0180	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Panel Mount, 18 Circuits	2
15-06-0145	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 14 Circuits	2
15-06-0185	4.20mm (.165") Pitch Mini-Fit BMI™ Plug Panel Mount, 18 Circuits	2
15-24-6040	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 4 Circuits, Tin Plating	2
15-24-6060	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 6 Circuits, Tin Plating	2
15-24-6100	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 10 Circuits, Tin Plating	2
15-24-6140	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 14 Circuits, Tin Plating	2
15-24-6180	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Right Angle, 18 Circuits, Tin Plating	2
15-24-6046	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 4 Circuits, Tin Plating	2
15-24-6066	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 6 Circuits, Tin Plating	2
15-24-6106	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 10 Circuits, Tin Plating	2
15-24-6146	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 14 Circuits, Tin Plating	2
15-24-6186	4.20mm (.165") Pitch Mini-Fit BMI™ Header, Vertical, 18 Circuits, Tin Plating	2
15-24-7140	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 14 Circuits	1
15-24-7060	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 6 Circuits	1
15-24-7100	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 10 Circuits	1
15-24-7180	4.20mm (.165") Pitch Mini-Fit BMI™ Receptacle Header, Vertical, 18 Circuits	1

Recommended Molex Tool

Molex Part No.	Description
63819-0900 (not included in kit)	Click for more info
11-03-0044 (not included in kit)	Click for more info