

Datasheet for 76650-0178

General Information

Kit Part Number:	76650-0178
Connector Type:	Wire-to-Board
Solution:	Off the Board Connectors
Molex Family:	C-Grid III™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	10, 12, 14, 16, 6, 8
Current Rating:	3A
Mounting Style:	PCB Through Hole
Orientation:	Receptacles, Vertical Headers
Pitch:	2.54mm (.100")
Tool Included:	Yes
Voltage Rating:	350V
Wire Gauge (AWG):	24-22

Product Highlights

The 3rd generation C-Grid III™ 2.54mm (.100") pitch post and receptacle interconnection system offers complete design flexibility and modular components that provide the widest range of electronic packaging alternatives. C-Grid III™ is a highly-versatile 2.54mm interconnection system offering unique design features: Surface Treatment (platings), Flexibility, Advantage by Design (same mating concept with all termination techniques), Interchangeability (fully compatible with the industry standard DIN41651 as well as the French norm HE-13/14), and Lower Applied Cost.

Features and Benefits

- Easy breakaway to smaller sizes
- High pin retention
- Polarized housings
- High mechanical stability after soldering
- Fully enclosed contact box
- Friction Lock housings
- Contact and plating orientation according to DIN 41651
- North/south contact orientation avoids overstress

Applications

- Automotive: Air bag sensors, Steering controls, Sound systems
- Computers and Servers
- Business Machines: Copiers, Printers, Fax machines
- Measuring Analyzing Equipment
- Large Industrial Equipment
- Medical Instrumentation: Surgical, Dental, Laboratory Devices

Bill of Materials

Molex Part No.	Description	Quantity
90119-2109	C-Grid III™ Female Crimp Terminal, 24-22 AWG	100
90142-0006	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 6 Circuits	5
90142-0008	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 8 Circuits	4
90142-0010	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 10 Circuits	4
90142-0012	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 12 Circuits	3
90142-0014	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 14 Circuits	3
90142-0016	2.54mm (.100") Pitch C-Grid III™ Receptacle, Dual Row, 16 Circuits	2
90131-0123	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 6 Circuits	5
90131-0124	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 8 Circuits	4
90131-0125	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 10 Circuits	4
90131-0126	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 12 Circuits	3
90131-0127	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 14 Circuits	3
90131-0128	2.54mm (.100") Pitch C-Grid III™ Header, Dual Row, Vertical, 16 Circuits	2
69008-0140	C-Grid Insertion Tool	1

Recommended Molex Tool

Molex Part No.	Description
69008-0003 (not included in kit)	Click for more info
63819-0200 (not included in kit)	Click for more info