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

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the connector kit specialist

Datasheet for 76650-0178

General Information

Part Number:	76650-0178
Manufacturer:	Molex / Waldom
Title:	C-Grid III Connector Kit
Description:	Dual Row Vertical Header and Receptacle
Product Family:	C-Grid III™
Certificates:	(Molex Parts within this kit) - EU RoHS Compliant
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design Configuration:	Wire-to-Board
Pitch:	2.54mm (.100")
Connector Type:	Receptacles and Headers
Mounting Orientation:	Vertical
Circuit Sizes:	6, 8, 10, 12, 14 and 16
Current Rating:	3 Amps
Voltage:	350 Volts
Wire Size:	(24-22) AWG

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.

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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 for Part No. 76650-0178

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

Not For Use With Molex SL™ Components

Recommended Molex Tool(s) for Part No. 76650-0178*

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com

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Molex Part No.	Country of Origin	Description
69008-0003 *	Netherlands	Extraction Aid
63819-0200 *	Sweden	Hand Crimp Tool

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