



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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 76650-0178

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	Applications
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

Datasheet for 76650-0178

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.