

Datasheet for 76650-0199

General Information

Part Number: 76650-0199
Manufacturer: Molex / Waldom
Title: iGrid Connector Kit
Description: Positive Lock Vertical Header and Receptacle
Product Family: iGrid™
Certificates: (Molex Parts within this kit) - EU and China RoHS Compliant, UL and CSA
Country of Origin: Kit assembled in U.S.A.

Specifications

Design
Configuration: Wire-to-Board
Pitch: 2.00mm (.079")
Connector Type: Receptacle and Header

Mounting
Orientation: Vertical
Circuit Sizes: 10,12,14,16 and 18
Current Rating: (1.5 - 2) Amps depending on AWG
Voltage: 250 Volts
Wire size: 26-22 AWG

Product Highlights

iGrid wire-to-board connector system offers a compact design and anti-tangle internal lock for applications such as gaming machines, appliances, industrial and other equipment requiring good mating retention. The unique inner lock of iGrid prevents wire from getting tangled in the latch, compared to outer lock types where such damage may occur. The internal lock also provides space savings, an audible click and a robust design to withstand rugged handling.

| Features and Benefits | Applications |
|---|--|
| <ul style="list-style-type: none">• Compact design saves PCB real estate• Fully shrouded headers withstand rugged handling and vibration• Polarization between housing and terminal always seats properly in housing• Internal lock prevents wire tangling; space saving | <ul style="list-style-type: none">• GPS• Vending and Gaming machines• HVAC• Microwave ovens• Medical• Fitness equipment |

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

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Bill of Materials for Part No. 76650-0199

| Molex Part No. | Country of Origin | Description | Quantity in Kit |
|-----------------------|--------------------------|--|------------------------|
| 501647-1100 | Japan | iGrid™ Female Crimp Terminal 26-22 AWG | 200 |
| 501645-1020 | Japan | 2.00mm (.079") Pitch iGrid™ Vertical Header Dual Row, 10 Circuits | 2 |
| 501646-1000 | Japan | 2.00mm (.079") Pitch iGrid™ Receptacle , Dual Row, 10 Circuits | 2 |
| 501645-1220 | Japan | 2.00mm (.079") Pitch iGrid™ Vertical Header, Dual Row, 12 Circuits | 2 |
| 501646-1200 | Japan | 2.00mm (.079") Pitch iGrid™ Receptacle , Dual Row, 12 Circuits | 2 |
| 501645-1420 | Japan | 2.00mm (.079") Pitch iGrid™ Vertical Header, Dual Row, 14 Circuits | 2 |
| 501646-1400 | Japan | 2.00mm (.079") Pitch iGrid™ Receptacle , Dual Row, 14 Circuits | 2 |
| 501645-1620 | Japan | 2.00mm (.079") Pitch iGrid™ Vertical Header, Dual Row, 16 Circuits | 2 |
| 501646-1600 | Japan | 2.00mm (.079") Pitch iGrid™ Receptacle , Dual Row, 16 Circuits | 2 |
| 501645-1820 | Japan | 2.00mm (.079") Pitch iGrid™ Vertical Header, Dual Row, 18 Circuits | 2 |
| 501646-1800 | Japan | 2.00mm (.079") Pitch iGrid™ Receptacle , Dual Row, 18 Circuits | 2 |

Recommended Molex Tool(s) for Part No. 76650-0199*

| Molex Part No. | Country of Origin | Description |
|-----------------------|--------------------------|--|
| 63819-2300 * | Sweden | Hand Crimp Tool for 2.00mm(.079") Pitch iGrid™ |

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