

## Datasheet for 76650-0200

### General Information

**Part Number:** 76650-0200  
**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:** 20, 22, 24, 26 and 28  
**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

- Compact design saves PCB real estate
- Fully shrouded headers withstand rugged handling and vibration
- Polarization between housing and terminal always seats properly in housing

#### Applications

- 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](http://www.molexkits.com)**

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### Bill of Materials for Part No. 76650-0200

| Molex Part No. | Country of Origin | Description                                                        | Quantity in Kit |
|----------------|-------------------|--------------------------------------------------------------------|-----------------|
| 501647-1100    | Japan             | iGrid™ Female Crimp Terminals, 26-22 AWG                           | 300             |
| 501646-2000    | Japan             | 2.00mm (.079") Pitch iGrid™ Receptacles, Dual Row, 20 Circuits     | 2               |
| 501646-2200    | Japan             | 2.00mm (.079") Pitch iGrid™ Receptacles, Dual Row, 22 Circuits     | 2               |
| 501646-2400    | Japan             | 2.00mm (.079") Pitch iGrid™ Receptacles, Dual Row, 24 Circuits     | 2               |
| 501646-2600    | Japan             | 2.00mm (.079") Pitch iGrid™ Receptacles, Dual Row, 26 Circuits     | 2               |
| 501646-2800    | Japan             | 2.00mm (.079") Pitch iGrid™ Receptacles, Dual Row, 28 Circuits     | 2               |
| 501645-2020    | Japan             | 2.00mm (.079") Pitch iGrid™ Vertical Headers Dual Row, 20 Circuits | 2               |
| 501645-2220    | Japan             | 2.00mm (.079") Pitch iGrid™ Vertical Headers Dual Row, 22 Circuits | 2               |
| 501645-2420    | Japan             | 2.00mm (.079") Pitch iGrid™ Vertical Headers Dual Row, 24 Circuits | 2               |
| 501645-2620    | Japan             | 2.00mm (.079") Pitch iGrid™ Vertical Headers Dual Row, 26 Circuits | 2               |
| 501645-2820    | Japan             | 2.00mm (.079") Pitch iGrid™ Vertical Headers Dual Row, 28 Circuits | 2               |

### Recommended Molex Tool(s) for Part No. 76650-0200\*

| 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.