

## Datasheet for 76650-0170

### General Information

|                           |   |
|---------------------------|---|
| <b>Part Number:</b>       | 76650-0170  |
| <b>Manufacturer:</b>      | Molex / Waldom  |
| <b>Title:</b>             | SL Signal Connector Kit   |
| <b>Description:</b>       | High Vibration Signal Vertical and Right Angle Header and Receptacle. |
| <b>Product Family:</b>    | SL™   |
| <b>Certificates:</b>      | (Molex Parts within this kit) - EU RoHS Compliant                     |
| <b>Country of Origin:</b> | Kit assembled in U.S.A.   |

### Specifications

|                        |                          |
|------------------------|--------------------------|
| <b>Design</b>          |                          |
| <b>Configuration:</b>  | Wire-to-Board            |
| <b>Pitch:</b>          | 2.54mm (.100")           |
| <b>Connector Type:</b> | Headers and Receptacle   |
| <b>Mounting</b>        |                          |
| <b>Orientation:</b>    | Right Angle and Vertical |
| <b>Circuit Sizes:</b>  | 3, 4 and 5               |
| <b>Current Rating:</b> | 3 Amps                   |
| <b>Voltage:</b>        | 250 Volts                |
| <b>Wire Size:</b>      | 24-22 AWG                |

### Product Highlights

SL (Stackable Linear) is a modular, single row, wire-to-board system, designed for high density signal applications. These are suitable for low power signal applications such as computers, medical instruments, and automotive controls.

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| Features and Benefits  | Applications  |
|--|---|
| <ul style="list-style-type: none"> <li>• PCB locks hold header in place until permanently soldered</li> <li>• Locking crown secures positive latch to header</li> <li>• Polarization slots guide front ribs of mating connector to prevent pin damage</li> <li>• Standoffs minimize flux retention</li> <li>• Anti-entanglement/overstress ribs prevent discrete wires from catching under latch during harness manufacturing and storage</li> <li>• Front ribs prevent contact damage; the housing cannot be twisted off pins</li> <li>• Dual beam, fully-enclosed box contact</li> <li>• Dual tab strain relief</li> <li>• Locking tang secures terminal in housing</li> </ul> | <ul style="list-style-type: none"> <li>• Automotive: Air bag sensors, Interior lighting, Steering controls, Cigarette lighter, Sound systems</li> <li>• Telecom: Pay phones, LANs, Network equipment, Hubs and switches</li> <li>• Business Machines: Copiers, Printers, Fax machines</li> <li>• Measuring Analyzing Equipment</li> <li>• HVAC Equipment</li> <li>• Large Industrial Equipment</li> <li>• Medical Instrumentation: Surgical, Dental</li> <li>• Computers: Mainframes, Laptops, CD ROMs, Servers, Desktop PCs, Peripherals, Modems, Disk drives</li> </ul> |

### Bill of Materials for Part No. 76650-0170

| Molex Part No. | Country of Origin | Description                                    | Quantity in Kit |
|----------------|-------------------|--|-----------------|
| 16-02-0104-C   | USA               | SL Cgrid Term Fem Crimp 30u Gold 24-22 AWG     | 100             |
| 16-02-0103-C   | USA               | SL Cgrid Term Fem Crimp 15u Gold 24-22 AWG     | 100             |
| 50-57-9403     | USA               | 2.54mm (.100") 3 Circuit SL Receptacle G Latch | 5               |
| 50-57-9404     | USA               | 2.54mm (.100") 4 Circuit SL Receptacle G Latch | 5               |
| 50-57-9405     | USA               | 2.54mm (.100") 5 Circuit SL Receptacle G Latch | 5               |
| 70541-0072     | USA               | 2.54mm (.100") 3 Circuit SL Vertical Header    | 5               |
| 70541-0073     | USA               | 2.54mm (.100") 4 Circuit SL Vertical Header    | 5               |
| 70541-0074     | USA               | 2.54mm (.100") 5 Circuit SL Vertical Header    | 5               |
| 15-04-0292     | USA               | Polarizing Key In PC Form B                    | 5               |
| 70553-0002     | USA               | 2.54mm (.100") 3 Circuit SL Right Angle Header | 5               |
| 70553-0003     | USA               | 2.54mm (.100") 4 Circuit SL Right Angle Header | 5               |
| 70553-0004     | USA               | 2.54mm (.100") 5 Circuit SL Right Angle Header | 5               |

Not For Use With C-Grid III™ Components

**For additional Molex / Waldom Design and Solution Kits please go to [www.molexkits.com](http://www.molexkits.com)**

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### Recommended Molex Tool(s) for Part No. 76650-0170\*

| Country        |           | Description             |
|----------------|-----------|-------------------------|
| Molex Part No. | of Origin |                         |
| 63811-8700 *   | Sweden    | Hand Crimp Tool         |
| 11-02-0022 *   | USA       | Insertion Tool          |
| 11-03-0036 *   | USA       | Manual Extraction Tool  |
| 63811-8800 *   | Sweden    | Hand Crimp Tool - JAPAN |

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