



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 76650-0161

### General Information

|                           |   |
|---------------------------|---|
| <b>Part Number:</b>       | 76650-0161  |
| <b>Manufacturer:</b>      | Molex / Waldom  |
| <b>Title:</b>             | SPOX BMI Connector Kit  |
| <b>Description:</b>       | BMI Dual Row Panel Mount Vertical Plug and Receptacle         |
| <b>Product Family:</b>    | SPOX™ BMI   |
| <b>Certificates:</b>      | (Molex Parts within this kit) - EU RoHS Compliant, UL and CSA |
| <b>Country of Origin:</b> | Kit assembled in U.S.A.                                       |

### Specifications

#### Design

|                        |                                |
|------------------------|--------------------------------|
| <b>Configuration:</b>  | Wire-to-Wire and Wire-to-Board |
| <b>Pitch:</b>          | 2.50mm (.098")                 |
| <b>Connector Type:</b> | Receptacles and Plugs          |
| <b>Circuit Sizes:</b>  | 6                              |
| <b>Current Rating:</b> | (1.5 - 3) Amps - Dep. On AWG   |
| <b>Voltage:</b>        | 250 Volts                      |
| <b>Wire size:</b>      | 24-22 AWG                      |

### Product Highlights

SPOX BMI connectors offer self-aligning features in one of the smallest blind-mate packages available. The unique low-profile design of the SPOX Blind-mate Interface (BMI) allows for a mated stack distance of only 11.00mm (0.430"). Utilizing proven SPOXstyle contacts for high reliability, the products are suitable for situations requiring highly reliable tin interfaces.

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|--|--|
| <ul style="list-style-type: none"> <li>• Panel mounting feature permits up to 3.00mm (.120") misalignment, permitting blind-mating of products</li> <li>• First-mate/last-break circuits provide sequential engagement of contacts</li> <li>• Robust alignment features virtually eliminate contact damage</li> <li>• Headers are molded in LCP high-temperature plastic, which meets lead-free processing requirements</li> <li>• Post plated to eliminate bare edges</li> <li>• Very low profile</li> <li>• Anti-fishhooking design</li> <li>• Box protects pin contact area from contamination during handling</li> </ul> | <ul style="list-style-type: none"> <li>• Telecommunications</li> <li>-Hubs</li> <li>-Servers</li> <li>-Routers</li> <li>• Other Markets</li> <li>-Fan-tray assemblies</li> <li>-Low-current blind-mating applications</li> <li>-Lower-current power supply applications</li> </ul> |
|--|--|

**Bill of Materials for Part No. 76650-0161**

| Molex Part No. | Country of Origin | Description  | Quantity in Kit |
|----------------|-------------------|--|-----------------|
| 45627-0002-C   | USA               | SPOX Male Terminal 24-22 AWG   | 50              |
| 08-70-1040-C   | China             | Mini-SPOX Female Terminal 28-22 AWG                                    | 100             |
| 45626-0001     | USA               | 2.50mm (.098") Pitch SPOX™ BMI Plug, Dual Row, Panel Mount, 6 Circuits | 5               |
| 45579-0001     | China             | 2.50mm (.098") Pitch SPOX™ BMI Receptacle, Panel Mount, 6 Circuits     | 10              |

**Recommended Molex Tool(s) for Part No. 76650-0161\***

| Molex Part No. | Country of Origin | Description                                  |
|----------------|-------------------|--|
| 63811-5200 *   | Germany           | Hand Crimp Tool - SPOX™                      |
| 63813-1400 *   | USA               | Manual Extraction Tool for SPOX™ 33467/33468 |

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