

Datasheet for 76650-0161

General Information

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

Specifications

Design

| | |
|------------------------|--------------------------------|
| Configuration: | Wire-to-Wire and Wire-to-Board |
| Pitch: | 2.50mm (.098") |
| Connector Type: | Receptacles and Plugs |
| Circuit Sizes: | 6 |
| Current Rating: | (1.5 - 3) Amps - Dep. On AWG |
| Voltage: | 250 Volts |
| Wire size: | 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"> • Panel mounting feature permits up to 3.00mm (.120") misalignment, permitting blind-mating of products • First-mate/last-break circuits provide sequential engagement of contacts • Robust alignment features virtually eliminate contact damage • Headers are molded in LCP high-temperature plastic, which meets lead-free processing requirements • Post plated to eliminate bare edges • Very low profile • Anti-fishhooking design • Box protects pin contact area from contamination during handling | <ul style="list-style-type: none"> • Telecommunications -Hubs -Servers -Routers • Other Markets -Fan-tray assemblies -Low-current blind-mating applications -Lower-current power supply applications |
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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.