

Datasheet for 76650-0003

General Information

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| Part Number: | 76650-0003 |
| Manufacturer: | Molex / Waldom |
| Title: | Pico-SPOX Connector Kit |
| Description: | SMT Vertical and Right Angle Header and Receptacle |
| Product Family: | Pico-SPOX™ |
| Certificates: | (Molex Parts within this kit) - EU RoHS Compliant and UL |
| Country of Origin: | Kit assembled in U.S.A. |

Specifications

Design

| | |
|------------------------|---|
| Configuration: | Wire-to-Board |
| Pitch: | 1.50mm (0.098") |
| Connector Type: | Receptacle, Right Angle and Vertical (and Capped) SMT Headers |
| Mounting | |
| Orientation: | Vertical and Right Angle |
| Circuit Sizes: | 3, 4, 6, 8 and 10 |
| Current Rating: | (1.5 - 3) Amps - Dependant on Wire Gauge |
| Voltage: | 30 Volts |
| Wire size: | (30 - 24) AWG |

Product Highlights

Molex's Pico-Spox connector system is an ideal solution for higher current wire-to-board configurations in tight packaging applications. The box style terminal makes contact with the header pin via two inward-facing dimples to ensure high reliability. Headers are available in vertical and right angle configurations and offered in tape and reel packaging for high volume pick-and-place production. Polarizing keys on both the headers and receptacles ensure proper mating. A reliable friction lock feature ensures secure mating retention. The system is rated for 3A max. using AWG #24 wires in a compact 1.50mm pitch design. All parts are lead-free.

Features and Benefits

Applications

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- Reliable two points of contact, high current capable, good electrical connection
 - Box-style contact, protects contact area
 - Friction lock, good mating retention
 - Headers fully shrouded to protect pins
 - Polarizing features, ensures proper mating
 - Lead-in chamfer to ease mating
 - Anti-fishhooking contact design to improve handling during harness assembly
- Medical
 - Office machines
 - PCs and monitors
 - Automotive
 - Consumer

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| Bill of Materials for Part No. 76650-0003 | | | |
|--|--------------------------|--|------------------------|
| Molex Part No. | Country of Origin | Description | Quantity in Kit |
| 87421-0000-C | Singapore | Pico-Spox™ Female Crimp Terminal Tin, 24-30 AWG | 100 |
| 87437-0343 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header 3 Circuit | 5 |
| 87437-0443 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header 4 Circuit | 5 |
| 87437-0643 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header 6 Circuit | 5 |
| 87437-0843 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header 8 Circuit | 5 |
| 87437-1043 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header 10 Circuit | 5 |
| 87438-0343 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Right Angle Header 3 Circuit | 5 |
| 87438-0443 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Right Angle Header 4 Circuit | 5 |
| 87438-0643 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Right Angle Header 6 Circuit | 5 |
| 87438-0843 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Right Angle Header 8 Circuit | 5 |
| 87438-1043 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Right Angle Header 10 Circuit | 5 |
| 87439-0300 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ Receptacle 3 Circuit | 10 |
| 87439-0400 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ Receptacle 4 Circuit | 10 |
| 87439-0600 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ Receptacle 6 Circuit | 10 |
| 87439-0800 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ Receptacle 8 Circuit | 10 |
| 87439-1000 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ Receptacle 10 Circuit | 10 |
| 87437-0373 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header with Cap 3 Circuit | 5 |
| 87437-0473 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header with Cap 4 Circuit | 5 |
| 87437-0673 | Singapore | 1.50mm (.098") Pitch Pico-Spox™ SMT Vertical Header with Cap 6 Circuit | 5 |

| Recommended Molex Tool(s) for Part No. 76650-0003 | | | |
|--|--------------------------|--------------------|--|
| Molex Part No. | Country of Origin | Description | |
| 63811-6400 * | Germany | Hand Crimp Tool | |

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