

## Datasheet for 76650-0003

### General Information

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

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Board
<b>Pitch:</b>	1.50mm (0.098")
<b>Connector Type:</b>	Receptacle, Right Angle and Vertical (and Capped) SMT Headers
<b>Mounting</b>	
<b>Orientation:</b>	Vertical and Right Angle
<b>Circuit Sizes:</b>	3, 4, 6, 8 and 10
<b>Current Rating:</b>	(1.5 - 3) Amps - Dependant on Wire Gauge
<b>Voltage:</b>	30 Volts
<b>Wire size:</b>	(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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<b>Bill of Materials for Part No. 76650-0003</b>			
<b>Molex Part No.</b>	<b>Country of Origin</b>	<b>Description</b>	<b>Quantity in Kit</b>
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

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

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