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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 76650-0003

### 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

### Datasheet for 76650-0003

- 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



**Datasheet for 76650-0003**

<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.