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Rockford, Illinois 61102
800-435-2931
www.Molexkits.com

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Datasheet for 76650-0003

General Information

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.

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