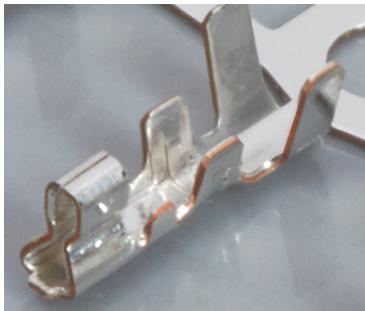


Pico-SPOX 1.50mm Wire-to-Board Connector System

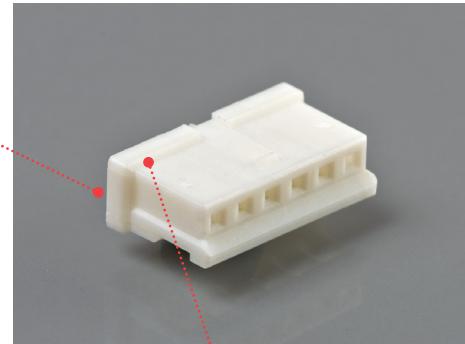
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Ideal for compact applications, the Pico-SPOX 1.50mm Wire-to-Board Connector System provides electrical and mechanical reliability in a high-temperature design that meets several industry requirements

Features and Advantages



Readily available tooling
Use of popular terminals make it easy to access the crimp applicators as they are widely available in the market

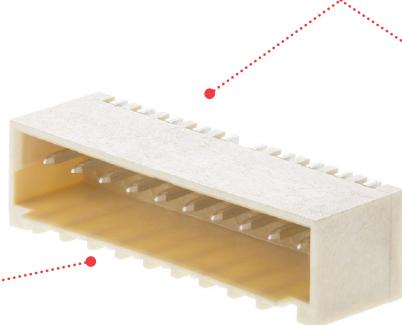


Friction lock

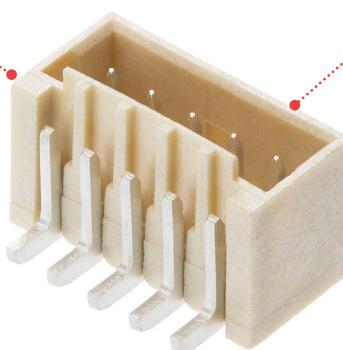
Provides better mating retention of header and harness

Vertical and Right Angle Through Hole Single Header
Unique inner positive lock that provides latch protection and secure terminal retention

SMT-type plug Header
Allows automatic assembly



SMT-type plug Header
Allows automatic assembly



Polarization keys
Prevents mis-mating during assembly

1.50mm-pitch connector
Delivers secure mating retention without sacrificing compactness. 30% space saving against 2.00mm wire-to-board connector system

Applications

Industrial Automation

Automation equipment

Consumer

White goods

Gaming machines

Drones

Air conditioners

Laser printers

Vacuum cleaners

Desktop PCs

Power tools

Medicals

In-room / Patient monitoring equipment

Medical devices



Gaming Machines



White Goods



Steering Wheel Switches



Industrial Automation



Drones

Pico-SPOX 1.50mm Wire-to-Board Connector System

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Specifications

REFERENCE INFORMATION

Packaging: Reel (Terminal)
Tray (Header Assembly)
Bag (Receptacle Housing)
Mates With: Pico-SPOX Connectors
(87347/87438/78047/78048)
Use with: 87439 (Receptacle Housing)
Used with: 87421 (Terminal)
Designed In: Millimeters
RoHS: Yes
Low Halogen : No

ELECTRICAL

Voltage (max.): 250V
Current (max.): 2.5A max. (AWG#24)78047/78048
3.5A max. (AWG#24)87437/87438
Contact Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC (1 minute)
Insulation Resistance (min.): 1000 Megohms

MECHANICAL

Crimp Terminal Insertion Force (max.): 7kg (15P)
Crimp Terminal Retention Force (min.): 1k
Pin Retention Force (min.): 9.8N
Durability (max.): 10 Cycles

PHYSICAL

Housing:
Receptacle – Nylon (87439)
Header Nylon (87437)
Header – LCP (87438)
Contact: Phosphor Bronze
Plating (Receptacle):
Contact Area — Pre-Tin
Plating (Header): Brass
Contact Area — Tin over Nickel
Operating Temperature: -55 to +105°C

Ordering Information

Series No.	Pitch (mm)	Component	Circuits	Rows	Color
<u>87421</u>	1.50	Female Receptacle Terminal	AWG24 – 30	-	-
<u>87439</u>		Receptacle Housing (Nylon)	2-15	Single	Natural
<u>87437</u>		Plug Vertical Header (Nylon)			Beige
<u>87438</u>		Plug Right Angle Header (Nylon)			
<u>78047</u>		Plug Vertical Header (LCP)			
<u>78048</u>		Plug Right Angle Header (LCP)			Natural

www.molex.com/link/pico-spx.html

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