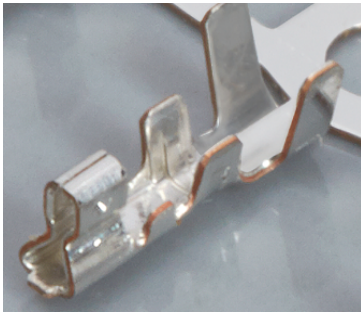


# Pico-SPOX 1.50mm Wire-to-Board Connector System

**molex**

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

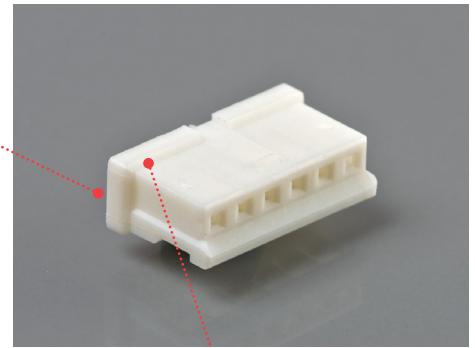


### Readily available tooling

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

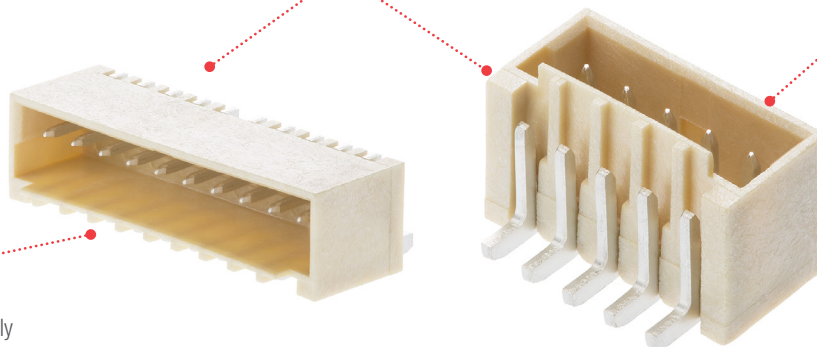


### Vertical and Right Angle Through Hole Single Header

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
<a href="#">87421</a>	1.50	Female Receptacle Terminal	AWG24 – 30	-	-
<a href="#">87439</a>		Receptacle Housing (Nylon)	2-15	Single	Natural
<a href="#">87437</a>		Plug Vertical Header (Nylon)			Beige
<a href="#">87438</a>		Plug Right Angle Header (Nylon)			Natural
<a href="#">78047</a>		Plug Vertical Header (LCP)			
<a href="#">78048</a>		Plug Right Angle Header (LCP)			

[www.molex.com/link/pico-spox.html](http://www.molex.com/link/pico-spox.html)

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