Mini-SPOX 2.50mm Wire-to-Board Connector System

Ideal for compact applications, the Mini-SPOX 2.50mm Wire-to-Board Connector System provides electrical and mechanical reliability in a high-temperature design that meets automotive, consumer and industrial industry requirements.

Features and Advantages

- **Terminal lance**
  - Fastened with terminal to provide improved terminal retention

- **Through hole round terminals**
  - Supports terminal ruggedness and reliability

- **Friction lock**
  - Provides better mating retention of housing and header

- **Polarizing features**
  - Ensures mating in proper orientation

- **2.50mm-pitch connector**
  - Provides space saving

- **Uses popular crimp terminals**
  - Easy to access the crimp applicators as they are widely available in the market

- **2 to 15 circuits, single-row plug in vertical and horizontal configurations**
  - Offers design flexibility

- **RoHS compliance and high-temperature capabilities**
  - Withstands harsh environments

Applications

**Industrial Automation**
- Automation equipment

**Consumer**
- White goods
- Gaming machines
- Drones
- Air conditioners
- Laser printers
- Vacuum cleaners
- Desktop PCs
- Power tools

**Automotive**
- Steering wheel, paddle shift, combination switches
- Shifters
- Head-, rear- and side-mirror lights
- Internal connection with other units
Mini-SPOX 2.50mm
Wire-to-Board Connector System

Specifications

REFERENCE INFORMATION
Packaging: Reel (Terminal)
Tray (Header Assembly)
Poly Bag (Receptacle Housing)
Mates With: Mini-SPOX Connectors
Use With: 5264
Terminal Used: 5263PBT
Designed In: Millimeters
RoHS: Yes
Low Halogen: No

ELECTRICAL
Voltage (max.): 250V
Current (max.): 3.0A (AWG#22)
Contact Resistance on Crimped Portion (max.): 5 milliohms
Dielectric Withstanding Voltage: 1000V AC (1 minute)
Insulation Resistance (min.): 1000 Megohms

PHYSICAL
Housing:
Receptacle − PA66
Header − PA66
Contact: Phosphor Bronze
Plating (Receptacle):
Contact Area — Pre-Tin
Plating (Header): Brass
Contact Area — Tin
Operating Temperature: -40 to +105˚C

MECHANICAL
Crimp Terminal Insertion Force (max.): 14.7N
Crimp Terminal Retention Force (min.): 14.7N
Pin Retention Force (min.): 9.8N
Crimping Strength (min.): 39.2N (AWG#22)
Durability (max.): 30 Cycles

Ordering Information

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<th>Series No.</th>
<th>Pitch (mm)</th>
<th>Component</th>
<th>Circuits</th>
<th>Rows</th>
<th>Color</th>
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<td>Female Receptacle Terminal</td>
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<tr>
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<td>Receptacle Housing</td>
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<td>Vertical Header</td>
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<td>Right-Angle Header</td>
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www.molex.com/link/Mini-spox.html

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