DATASHEET

# Pico-SPOX ›

**The 1.50mm-pitch Pico-SPOX connectors are space-efficient, saving 30% compared to 2.00mm connectors, and deliver up to 3.5A in multiple circuits and configurations—ideal for a wide array of compact, high-current applications in consumer and vehicle designs with tight PCB constraints.**

## ADVANTAGES AND FEATURES

### Optimizes space on PCBs
These connectors are specifically designed with a smaller pitch size, enabling significant space savings and overcoming design limitations.

### Helps protect the mating area
The spring-box shaped terminal with an SMT-type plug is designed to facilitate efficient automatic assembly. The friction lock ensures secure mating retention to avoid disrupting connections, even in rugged environments.

### Helps achieve greater design adaptability
These connectors offer a range of circuit sizes in vertical and right-angle configurations to overcome design limitations.

| | |
|---|---|
| Current (max.) | 3.5A (2-circuits/24 AWG) |
| Circuit Range | 2 to 15 |
| Voltage | 250V AC RMS/DC |
| Pitch | 1.50mm |
| Durability (max.) | 10 cycles |
| Operating Temperatures | -55 to +105°C |




## MARKETS AND APPLICATIONS

### Appliances
Refrigerators
Washing machines
Air conditioners

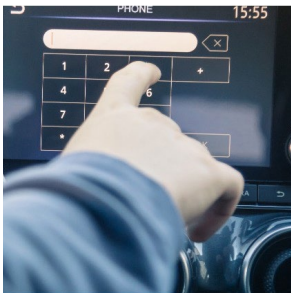
### Automotive
Control modules
Car infotainment systems
Network interfaces

### Industrial automation
Industrial equipment
Switching equipment

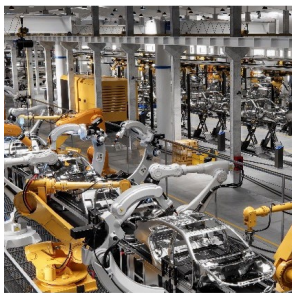
### Power for Data center
Switches
Servers

### Telecommunications
Ethernet switches
Networking routers

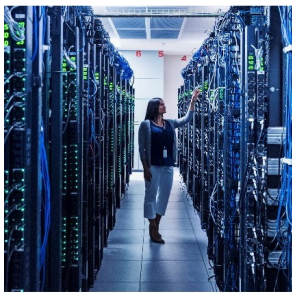
*Washing Machines*




*Car Infotainment Systems*



*Industrial Equipment*



*Servers*

*Networking Routers*

DATASHEET

# Pico-SPOX ›

## SPECIFICATIONS

### Reference Information

Packaging:
- Terminal: Reel
- Header Assembly: Reel
- Receptacle Housing: Bag

Designed in: Millimeters
RoHS: Yes
Low Halogen: No

### Electrical

Voltage (max.): 250V AC RMS/DC
Current (max.): 3.5A (2-circuits/24 AWG)
Circuit Range: 2 to 15
Resistance (max.): 20 milliohms
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance (min.): 1,000 Megohms

### Mechanical

Pitch: 1.50mm
Crimp Terminal Insertion Force (max.): 9.8N
Crimping Pull-Out Force (min.): 29.4N (24 AWG)
Header Terminal Retention Force (min.):
- Tin: 9.8N
- Gold: 6.9N

Durability (max.): 10 cycles

### Physical

Receptacle Housing: PA
Header Housing: PA
Header Pin:
- Tin — Brass, tin plating
- Gold — Brass, gold plating

Crimp Terminal:
- Tin: phosphor bronze, tin plating
- Gold: phosphor bronze, gold plating

Operating Temperatures: -55 to +105°C




Order No. 987652-8801 USA/0k/GF/2025.05