

# Rely-On Connectors ➤

Designed for applications that require high performance even in harsh conditions, Rely-On Connectors feature a 1.00mm-pitch form factor with exceptional durability and vibration resistance. These connectors ensure robust PCB retention and reliable signal integrity, helping customers reduce assembly issues and improve product reliability in a wide variety of applications including automotive, home appliance and industrial automation.

## ADVANTAGES AND FEATURES

### Offers exceptional space savings

The 1.00mm-pitch design delivers reliable electrical performance and overcomes tight space limitations-ideal for compact devices.

### Delivers robust board retention to help avoid connector disengagement

The dual-split nail design in the vertical type and an increased solder contact area in the right-angle design help increase mounting strength on the PCB.

### Meets automotive industry standards

The connectors comply with USCAR2 Class V1 and LV214 Class S1 for vibration and mechanical shock.

Current (max.)	2.5A
Voltage (max.)	100V
Circuit Size	2 to 10
Operating Temperatures	-55 to +125°C

### Affords high vibration and shock resistance

The narrow clearance and the stabilizer on the terminal deliver outstanding vibration control; the tip shape maximizes the contact areas and minimizes stabilizer deformation, delivering consistent anti-vibration performance.

### Provides a sturdy, user-friendly locking system

A larger latch area for better locking operability and two locking areas for the higher circuit sizes increase security and help prevent connector breakage during vibration and shock.



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## MARKETS AND APPLICATIONS

### Appliances and Mobile Devices

Compact portable appliances  
Smart speakers  
Tablet PCs  
Wearable devices



Drones



Air Conditioners



Headlamps

### Automotive

USCAR  
Driver monitoring systems  
Heads-up displays  
Interior lighting  
Interior rearview mirrors  
Seater heat modules  
Steering wheels  
Taillamps and headlamps

### HVAC

Air conditioners  
Heat pumps  
Humidifiers  
Ventilators

### Industrial automation

Drones  
Unmanned aircraft vehicles

## SPECIFICATIONS

### Reference Information

Packaging: Embossed tape with cover  
Designed in: Millimeters  
RoHS: Yes  
Low Halogen: Compliant  
PFAS Free: Compliant

### Electrical

Voltage (max.): 100V  
Current (max.): 2.5A signal  
Contact Resistance: 20 milliohms (max.)  
Wire Gauge (AWG): 32, 30, 28

### Physical

Locking/Circuit: Inner positive lock/2 to 10  
Contact: Copper alloy  
Plating: Gold  
Operating Temperatures: -55 to +125°C

### Mechanical

Pitch: 1.00mm  
Orientations: Vertical and right angle  
Row: Single  
Circuit Sizes: 2 to 10  
Insertion and Withdrawal Cycles: 30