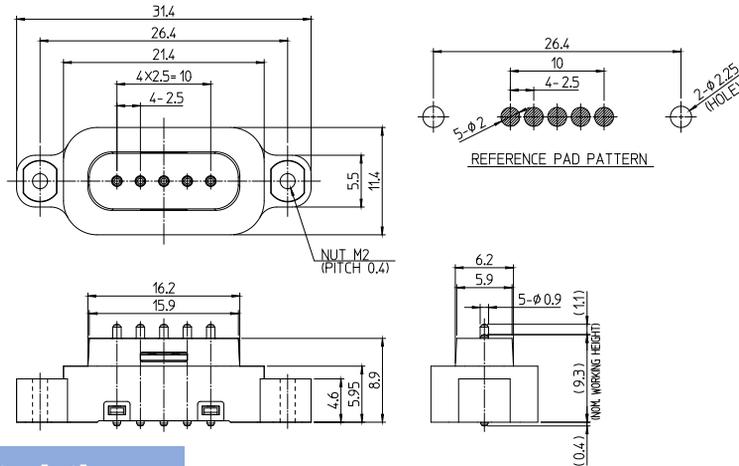


Yokowo SPRING LOADED CONNECTOR

Pogo Pin Connectors_5Pin_2.5mm Pitch_Water Proof Series

Basic Specification

Part Number :	S-J-5215X-5-25-0000
Rated Current :	2A
Rated Voltage :	AC/DC12V
Contact Resistance :	50mΩmax
Operation Temp. :	-40°C~+85°C
Pin Strength :	9.8N on a pin from any direction
Cycle Durability :	20,000 times
Waterproof Rating :	IPX7



Electrical Characteristic

Rated Current :	AC/DC 12V 2A
Contact Resistance :	50mΩ
Insulation Resistance :	100M Ω MIN
Dielectric Strength :	3mA (MAX) leakage

Mechanical Characteristics

Pin Force :	0.8N ± 0.2N
Pin Strength :	9.8N force on pin from any direction for 1min.
Housing Strength :	Apply a static load of 4.9N from the axial direction to the terminal part on the internal pin side of the spring connector.

Other Characteristic

Operational Durability :	20,000 times
Vibration Test :	Connect each terminal of the spring connector pin in series, apply the following vibration with 0.1A current condition. <ul style="list-style-type: none">*Total amplitude: 1.5mm* Sweep cycle: 10~55~10Hz/minute* Duration of test: 2hrs for each of X,Y,Z direction. (total 6 hours)

Shock Test :	Connect each terminal in series and apply the following shock with 0.1A current conduction. <ul style="list-style-type: none">* Accelerating rate: 490m/s²* Operation time: 11ms* The number of operating cycles: 3times in each direction.(18 times in total)
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Other Characteristic

- Low Temp. Durability :** Leave the connector at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 96 hours, then leave it at room temp. for 1 hour.
- High Temp. Durability :** Leave the connector at $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours, then leave it at room temp. for 1 hour.
- Humidity Durability :** Leave the connector at $+60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and 90 to 95% relative humidity for 96 hours, then leave it at room temp. for 1 hour.
- Temp. Cycle Test :** The test of one cycle shown in Table 1 is repeated 10 times, then leave it in room temp. for 1 hour.
- Temp. And Humidity Cycle Test :** The test of one cycle shown in Fig.1 is repeated 10 times, then leave it in room temperature for 1 hour.
- Anti-corrosion(Salt Water Spray) :** Leave the connector at the test equipment of $+35^{\circ}\text{C} \pm 2^{\circ}\text{C}$, and splay salt water with $5 \pm 1\%$ for 48 hours, then wash the deposits of salt and dry it, and leave it at room temperature for 1 hour.
- Waterproof Test(IPX7) :** Set a connector in the test fixture shown in Fig.2, and submerge it in the water at 1m depth for 30 minutes.

Table 1. Temperature Cycle

Step	Temperature($^{\circ}\text{C}$)	Time(minites)
1	-40 ± 3	30 - 35
2	5 - 35	10 - 15
3	85 ± 2	30 - 35
4	5 - 35	10 - 15

Fig 1. Temp. and Humidity Cycle

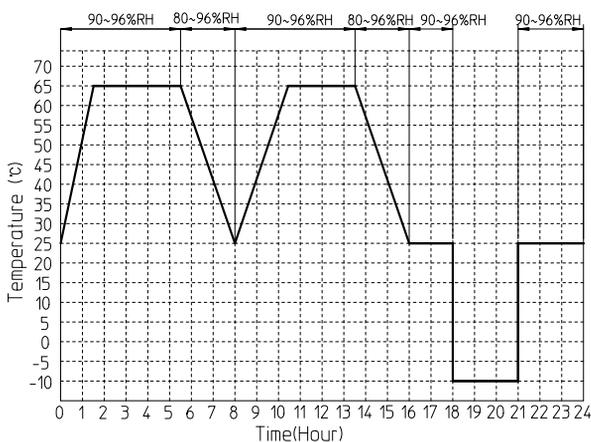
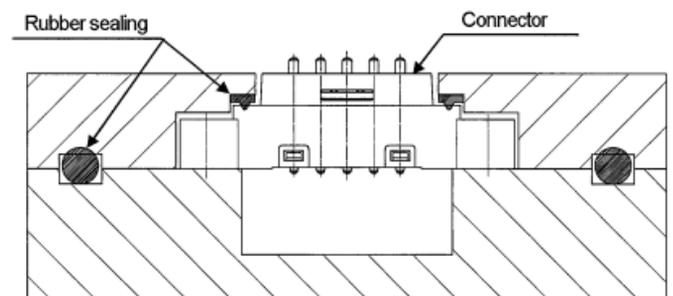


Fig 2. Waterproof Test fixture



- The specifications shown in this catalogue are subject to change without notice.
- Storage conditions: 35days max in room temperature

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An attention matter in use

- 1-. DO NOT load 9.8N and more from the side on the connector pin.
Connector pins are deformed, there is a possibility that can't be normal operation.**
- 2-. For waterproofing outside the connector, the user should airtight to the optimum shape.**