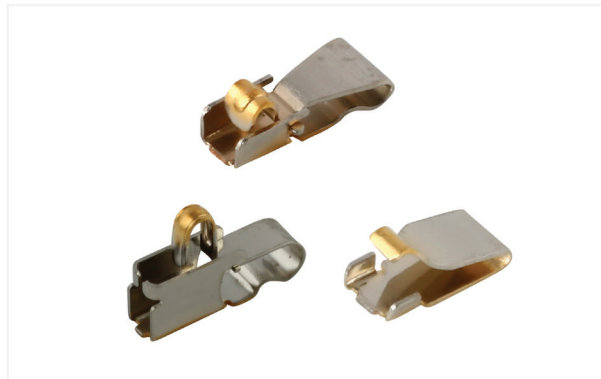


# Universal Contact

## OVERVIEW

The single spring contact to connect the designed device, such as an antenna to a printed circuit board assembly, this makes it easier for customers to design the board. Single position connector provides a means to electrically connect a device.

The single position spring contact is an excellent means to electrically connect devices, such as an antenna to a printed circuit board assembly, giving customers high flexibility to design the board.



## FEATURES

- In accordance with FCI GS-12-500
- Single contact without housing is helpful for customer to make the device thinner
- Various contact height allows customer to design various operation height

## BENEFITS

- Domed contact points for good normal force and low contact resistance
- Solderwell design prevents solder wicking up the contact
- Freedom to position part – no fixed mating interface

## TECHNICAL INFORMATION

### MATERIALS

- Beryllium/Titanium Copper Alloy
- Contact Area: 40u" Gold or 40u" GXT over Nickel
- Solder Area: Gold Flash over Nickel

### ELECTRICAL PERFORMANCES

- Rated Voltage: Maximum 12V
- Rated Current: 2 Amps @ 30 °C
- Contact Resistance: 20 Milliohms Maximum

### ENVIRONMENTAL

- Operating Temperature Range: – 40 °C to + 85 °C without loss of function
- Storage Temperature Range: – 40 °C to + 85 °C without loss of function at operating temperatures

### MECHANICAL PERFORMANCES

#### Universal Contacts

Part Number	Spring Height (mm)	Pre-load Apply Load (N)	Pre-load Un-Appling Load (N)	Max Deflection (mm)	Minimal Normal Force @ max Deflection (N)	Spring Rate (N/mm)
10123973-00*RLF	1.2	–	–	0.65	0.6	0.92
10094594-00*RLF	1.3	0.78	0.58	0.32	0.87	1.2
10104320-00*RLF	1.3	0.41	0.36	0.4	0.7	1.5
10115748-00*RLF	1.55	0.44	0.26	0.6	0.73	0.78
10103955-00*RLF	1.8	0.35	0.15	0.8	0.75	0.74
10128200-00*RLF	2.1	0.5	0.36	0.45	0.6	0.67
10104319-00*RLF	2.5	0.42	0.31	1	0.54	0.32
10104321-00*RLF	3.5	0.56	0.38	1.3	1.02	0.49

## PART NUMBERS

40u" Gold Plating	40u" GXT Plating
XXXXXXXX-001RLF	XXXXXXXX-009RLF

### SPECIFICATIONS

- GS-12-500

### PACKAGING

- Reel & Tape

### TARGET MARKETS/APPLICATIONS

- Consumer
  - Smartphone
  - Wearable Device
  - Gaming Device
  - Tablet
- Industrial & Instrumentation
  - LED lighting
  - Switch

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