

Universal Contact

DESCRIPTION

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

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 & BENEFITS

- 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

TARGET MARKETS & APPLICATIONS

- Commercial device segment
- Smartphone

TECHNICAL INFORMATION

MATERIALS

- Beryllium copper alloy
- Contact area: 40u" gold or 40u" GXT
- Solder area: gold flash

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

SPECIFICATIONS

- GS-12-500

PACKAGING

- Reel & Tape

MECHANICAL PERFORMANCES

Table 1 Split type Universal Contacts

Part Number	Pre-load Apply Load(N)	Pre-load Un-Applying Load(N)	Max Deflection (mm)	Minimal Normal Force @ max Deflection(N)	Spring Rate(N/mm)
10076429-00*RLF	0.28	0.20	0.93	0.50	0.34
10076430-00*RLF	0.50	0.38	0.65	0.70	0.86
10076431-00*RLF	0.30	0.20	0.40	0.58	0.90
10076432-00*RLF	0.40	0.30	1.30	0.98	0.53

Table 2 Solid type Universal Contacts

Part Number	Pre-load Apply Load(N)	Pre-load Un-Applying Load(N)	Max Deflection (mm)	Minimal Normal Force @ max Deflection(N)	Spring Rate(N/mm)
10094594-00*RLF	0.78	0.58	0.32	0.87	1.20
10103955-00*RLF	0.35	0.15	0.80	0.75	0.74
10104319-00*RLF	0.42	0.31	1.00	0.54	0.32
10104320-00*RLF	0.41	0.36	0.40	0.70	1.50
10104321-00*RLF	0.56	0.38	1.30	1.02	0.49
10115748-00*RLF	0.44	0.26	0.60	0.73	0.78
10119460-00*RLF	0.40	0.30	0.80	0.87	0.63

PART NUMBERS

40u" gold plating	40u" GXT plating	40u" gold plating	40u" GXT plating
10094594-001RLF	10094594-009RLF	10104320-001RLF	10104320-009RLF
10103955-001RLF	10103955-009RLF	10104321-001RLF	10104321-009RLF
10104319-001RLF	10104319-009RLF	10115748-001RLF	10115748-009RLF