



## Silicone keypads



**addix**  
ELASTOMERIC COMPONENTS

## SILICONE KEYPADS

Silicone keypads are the touch based contact between the upper box and the printed circuit. Silicone keypads are most commonly found on appliances used in the telecomms, automotive, domestic and cash transaction devices.

## TECHNICAL CHARACTERISTICS

### Material

- Insulated material : silicone.
- Contact surface : silicone with impregnated carbon.
- Non flammability : HB and 94 VO, HB-Standard.
- Standards : UL, CSA, MIL.

### Mechanical specifications

- Hardness : 40 - 80 Shore.
- Course : 0.8 - 1.5 mm.
- Actuation force : 50 - 300 gr.
- Flexlife : 1,000,000 cycles.

### Electrical specifications

DATA IS GIVEN IN FUNCTION OF A PRINTED CIRCUIT WITH A GOLD PLATED OR A NICKEL PLATED SURFACE.

- Type of contacts : Carbon, silver, gold.
- Cut through resistance : 0.06 W max.
- Inside resistance : 1 to 200 Ohms/12 VDC.
- Insulation resistance : 100 mOhms/250 VDC.
- Contact rebound time : 3-10 msec.

### Environmental specifications

- Operating temperature : -20°C to +85°C.
- Storage temperature : -40°C to +230°C.
- Resistance : ozone, UV and chemical products.

### Options

- Contacts made from carbon keymats or printed contacts, in carbon or metal finishes.
- Several silicone colours and keypad printing.
- Several shore hardness of silicone material.
- Hard coatings, soft or epoxy to improve abrasion resistance.



KEYPADS ① : with hard coating - ② : with epoxy coating - ③ : with soft coating

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