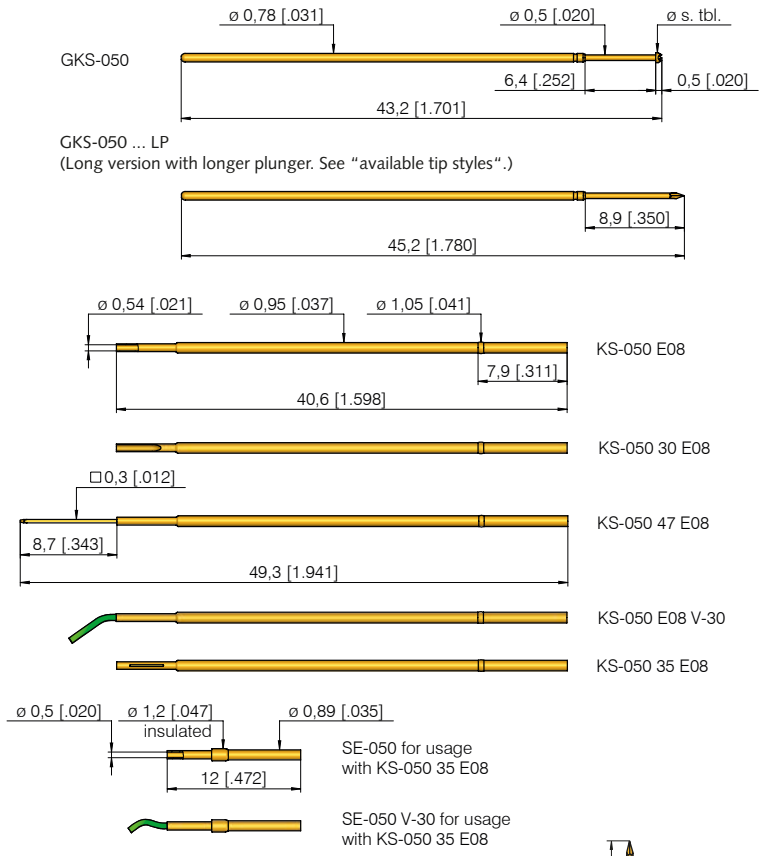
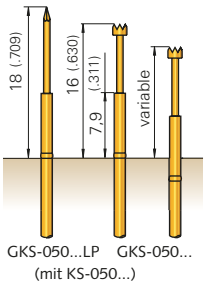
# GKS 050

**ICT-/FCT Test Probe**

**Grid:**
≥ 1,27 mm
≥ 50 Mil
**Installation height with KS:** 16,0 / 18,0 mm (.630 / .709) / variable
**Recommended stroke:** 4,3 mm (.169)

## Mounting and functional dimensions




### Collar height and installation height

To adjust the installation height, receptacles with a press-ring are used. The receptacles can be inserted up to the press-ring (i.e. acting as a collar-stop) or with the press-ring pressed into the mounting hole.

### Mechanical data

| | |
|---|---|
| **Working stroke:** | 4,3 mm (.169) |
| **Maximum stroke:** | 6,35 mm (.250) |
| **Spring force at work. stroke:** | 1,5 N (5.4oz) |
| **Alternative:** | 1,0 N (3.6oz); 2,0 N (7.2oz) |

### Materials

| | |
|---|---|
| **Plunger:** | BeCu or steel, gold-plated |
| **Barrel:** | Bronze, gold-plated |
| **Spring:** | Steel, gold-plated or stainless steel*** (C) |
| **Receptacle:** | BeCu, gold-plated |

### Electrical Data

| | |
|---|---|
| **Current rating:** | 2 - 3 A |
| **$R_i$ typical:** | < 20 mΩ (*** < 100 mΩ) |

### Operating temperature

| | |
|---|---|
| **Standard:** | -40° up to +80° C |
| ***with special designation "C":** | -100° up to +200° C (2,0 N) |

### Mounting hole size

| | |
|---|---|
| **in CEM1 and FR4:** | ∅ 0,98 - 1,00 mm (.0386 -.0394) |

**Note:**
Screw-in versions shown on page 121.

## Available tip styles
version GKS-050

| Material | | Tip style | | Plating | Further versions ∅ | Further versions ∅ (inch) |
|---|---|---|---|---|---|---|
| 2 | 01 | | ∅ 0,50 (.020) | A | | |
| 3 | 02 | | ∅ 0,60 (.024) | A | | |
| 3 | 03 | | ∅ 0,50 (.020) | A | 0,90 | (.035) |
| 3 | 05 | | ∅ 0,50 (.020) | A | | |
| 3 | 06 | | ∅ 0,90 (.035) | A | | |
| 3 | 07 | | ∅ 0,50 (.020) | A | 0,90 | (.035) |
| 2 | 14 | | ∅ 0,50 (.020) | A | | |
| NEW 3 | 19 * | | ∅ 0,90 (.035) | | | |
| 2 | 22 ** | | ∅ 0,40 (.016) | A | | |
| 2 | 31 | | ∅ 0,50 (.020) | A | | |
| 2 | 38 | | ∅ 0,50 (.020) | A | | |
| 2 | 77 | | ∅ 0,50 (.020) | A | | |
| 2 | 91 | | ∅ 0,50 (.020) | A | | |
| 2 | 97 | | ∅ 0,50 (.020) | A | | |

* 0,3 mm longer than standard
** conical down to ∅ 0,50 mm

## Available tip styles
special version GKS-050...LP

| Material | | Tip style | | Plating | Further versions ∅ | Further versions ∅ (inch) |
|---|---|---|---|---|---|---|
| 2 | 91 | | ∅ 0,50 (.020) | A | | |

Total length 45,2 mm (1.783), special designation "LP"

**SE-050 V-30 / KS-050 E08 V-30:**
The plug and receptacle are pre-wired with 1 m AWG 30 wire. The connection is soldered. Insulation tubing prevents shorts between the receptacles. Minimal recommended bending radius: 10 mm (.394).

## Ordering example

| Series | Tip material 2 = Steel 3 = BeCu | Tip style | Tip diameter (1/100 mm) | Plating A = Gold | Spring force (dN) | Collar height (mm) | Special designation ("C"; "LP") |
|---|---|---|---|---|---|---|---|
| GKS | 2 | 91 | 050 | A | 10 | 00 | |
| GKS | 2 | 91 | 050 | A | 15 | 00 | LP |

Test probe with total length 43,2 mm (1.700): GKS 050 2 91 050 A 10 00
Test probe with total length 45,2 mm (1.780): GKS 050 2 91 050 A 15 00 LP

Receptacles: KS-050 E08 | KS-050 30 E08 | KS-050 35 E08 | KS-050 E08 V-30

Plugs: SE-050 | SE-050 V-30