

GKS 100

ICT-/FCT Test Probe

Grid:

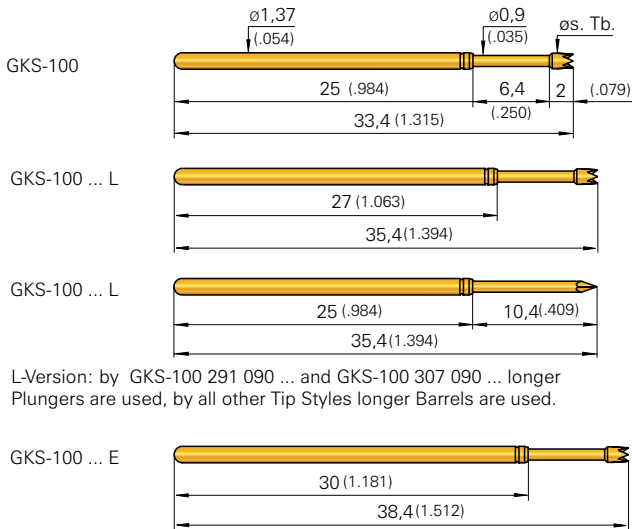
≥ 2,54 mm

≥ 100 Mil

Installation Height: 10,5 - 21,0 mm (.413 - .827)

Recommended Stroke: 4,3 mm (.169)

Mounting and Functional Dimensions



L-Version: by GKS-100 291 090 ... and GKS-100 307 090 ... longer Plungers are used, by all other Tip Styles longer Barrels are used.

Collar Height and Installations Height

To adjust the Installations Height, use Receptacles (KS) either with Collar or with Press-ring (see Usage Examples on Page 29).

| Wire-Wrap | Solder Cap | GKS-100 | GKS-100 ... L | GKS-100 ... E |
|---------------|----------------------------|------------------|------------------|-------------------|
| KS-100 47 05 | KS-100 30 05 | 10,5 (.413) | 12,5 (.492) | 15,5 (.610) |
| KS-100 47 25 | KS-100 30 25 | 13,0 (.512) | 15,0 (.591) | 18,0 (.709) |
| KS-100 47 40 | KS-100 30 40 | 14,5 (.571) | 16,5 (.650) | 19,5 (.768) |
| KS-100 47 | KS-100 30 | 16,0 (.630) | 18,0 (.709) | 21,0 (.827) |
| KS-100 47 G | KS-100 30 G KS-100 44 G | 16,0 (.630)/var. | 18,0 (.709)/var. | 21,0 (.827)/var. |
| KS-100 47 G12 | KS-100 30 G12 | 20,5 (.810)/var. | 22,5 (.890)/var. | 25,5 (1.000)/var. |

Mechanical Data

Working Stroke: 4,3 mm (.169)
Maximum Stroke: 6,35 mm (.250)
Spring Force at Work. Stroke: 2,0 N (7.2oz)
alternative: 0,6 N (2.2oz); 1,0 N (3.6oz);
 1,5 N (5.4oz); 2,25 N (8.1oz);
 3,0 N (10.8oz), 4,0 N (14,4oz)

Electrical Data

Current Rating: 5 - 8 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 (1,5 N; 2,0 N; 3,0 N)
 C-Versions only available for GKS-100 with total length 33,4 mm (1.315).

Materials

Plunger: BeCu or Steel, gold-plated
Barrel: Nickel-Silver or Bronze, gold-plated
Spring: Steel, gold-plated or stainless steel*** (C)
Receptacle: Nickel-silver or Brass, gold-plated

Mounting Hole Size

For KS-100...G when pressing the Press-ring into the Mounting Hole in Material:
CEM 1 and FR 4: \varnothing 1,70 - 1,75 mm (.0669 - .0689)

For KS-100 with Collar or Press-ring as a collar-stop:
CEM 1: \varnothing 1,68 - 1,69 mm (.0661 - .0665)
FR 4: \varnothing 1,69 - 1,70 mm (.0665 - .0669)

Available Tip Styles

| Material | Tip Style | Plating | Further Versions | |
|----------|-----------|---------|------------------------------|--------------------------------------|
| | | | \varnothing | \varnothing (inch) |
| 0 06* | | A | | |
| 0 06* | | | | |
| 2 01 | | A | | |
| 3 02 | | A | 0,90 | (.035) |
| 3 03 | | A | | |
| 2 04** | | A | | |
| 2 04 | | A | 1,50 | (.059) |
| 3 05 | | A | 0,50 0,64 1,30 | (.020) (.025) (.051) |
| 3 06 | | A | 1,50 2,00 2,50 3,00 | (.059) (.079) (.098) (.118) |
| 3 07 | | A | | |
| 3 07 | | A | 1,70 2,50 | (.067) (.098) |
| 2 09 | | A | | |
| 3 13 | | A | | |
| 2 14 | | A | 0,80 | (.031) |
| 2 14** | | A | | |
| 2 3 14 | | A | 1,50 | (.059) |
| 2 17 | | A | | |
| 3 19 | | A | | |
| 2 24** | | A | 1,50 | (.059) |

* 0,9 mm or 0,5 mm longer than Standard
 ** conical down up to \varnothing 1,2 mm
 **** higher middle tip, 0,4 mm longer than Standard

Note: Receptacles for Wireless Test Fixture see on page 38.

For checking the Stroke of a Test Fixture, we recommend the usage of Stroke Measurement Probes (see page 112).

Tools: Insertion and Extraction Tools for GKS and KS see Page 118.

Grid:
 ≥ 2,54 mm
 ≥ 100 Mil

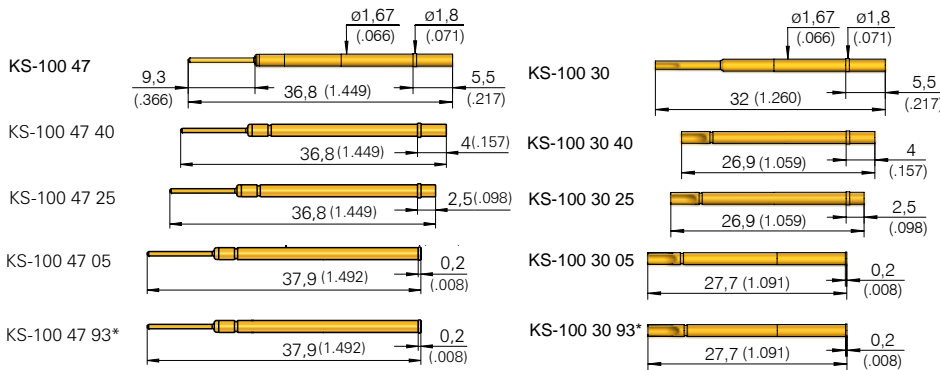
Installation Height: 10,5 - 21,0 mm (.413 - .827)
Recommended Stroke: 4,3 mm (.169)

Mounting and Functional Dimensions

Receptacles with Collar

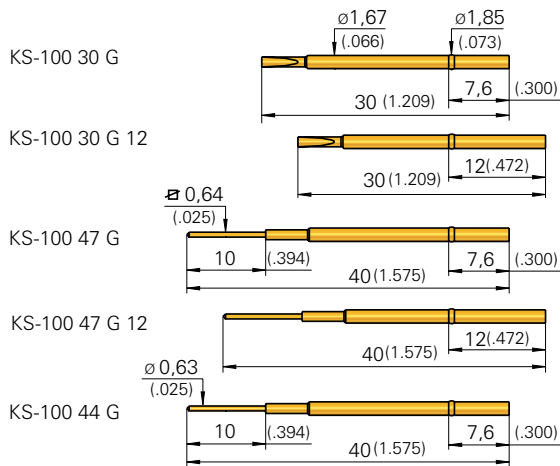
With Wire-Wrap Posts (vacuum-sealed)

With Solder Cap **NEW**

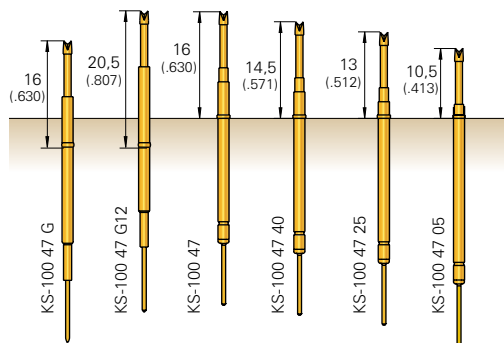


* for usage with Tip Style 93

Receptacles with Press-ring



Example with GKS-100 (Total Length GKS = 33,4 (1.315))



Note to GKS-100 with Tip Style 93:

- Installation Height with KS-100 30/47: 21,0 mm (.827)
- Installation Height with KS-100 47 93: 16,0 mm (.630)

It is recommended to use Tip Style "93" in combination with the Test Probe series "GKS-100 ...E"

Note:

Receptacles with square-post length 13 mm (.512) and 18 mm (.709) are ordered with the Designation "-13" resp. "-18"
 Example: KS-100 47 G 12-13 (-18)
 KS-100 47-13 (-18)

Available Tip Styles

| Material | Tip Style | Plating | Further Versions | |
|----------|-----------|---------|------------------|------------------------|
| | | | ∅ | ∅ (inch) |
| 2 | 25 | A | ∅ 1,30 (.051) | 1,50 (.059) |
| 2 | 31 | A | ∅ 0,90 (.035) | |
| 2 | 33 | A | ∅ 1,06 (.042) | |
| 2 | 38 | A | ∅ 0,90 (.035) | |
| 3 | 55 | A | ∅ 0,64 (.025) | |
| | | | | |
| 2 | 77 | A | ∅ 0,90 (.035) | |
| 2 | 88 | A | ∅ 1,50 (.059) | 1,90 (.070) NEW |
| 2 | 89 | A | ∅ 0,50 (.020) | |
| 2 | 91 | A | ∅ 0,90 (.035) | |
| 2 | 91 | A | ∅ 1,30 (.051) | |
| 2 | 93* | A | ∅ 1,60 (.063) | |
| 2 | 97 | A | ∅ 0,90 (.035) | |
| 2 | 98 | A | ∅ 0,90 (.035) | |

* 5 mm longer as Standard

Ordering Example

| Series | Tip Material | Tip Style | Tip Diameter (1/100 mm) | Plating | Spring Force (dN) | Collar Height (mm) | Special Designation („C“, „E“, „L“) |
|---|--------------|-----------|-------------------------|----------|-------------------|--------------------|-------------------------------------|
| Test Probe with total Length 33,4 mm (1.315): | 3 = BeCu | 07 | 150 | A = Gold | 30 | 00 | |
| Test Probe with total Length 35,4 mm (1.394): | 2 = Steel | 91 | 090 | A = Gold | 20 | 00 | L |
| Test Probe with total Length 38,4 mm (1.512): | 3 = BeCu | 06 | 130 | A = Gold | 15 | 00 | E |
| Receptacles: | | | | | | | |
| | | | | | | | |