

Grid:

≥ 2,54 mm

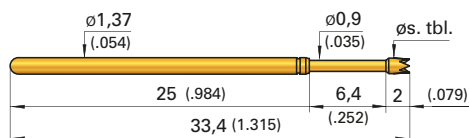
≥ 100 Mil

Installation height with KS: 10,5 - 25,5 mm (.413 - 1.004) / variable

Recommended stroke: 4,3 mm (.169)

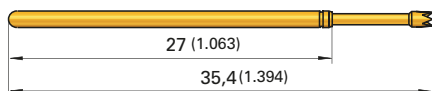
Mounting and functional dimensions

GKS-100



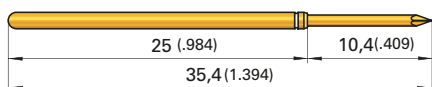
GKS-100 ... LH

(Long version with longer barrel.)

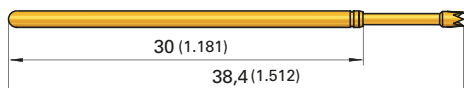


GKS-100 ... LP

(Long version with longer plunger. See "available tip styles".)



GKS-100 ... E



Collar height and installation 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 ... LH/LP	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 (.807)/var.	22,5 (.886)/var.	25,5 (1.004)/var.

**** KS (receptacle) with round post to solder

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_j 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 CEM1: Ø 1,71 - 1,73 mm (.0673 - .0681)
in FR4: Ø 1,70 - 1,72 mm (.0669 - .0677)

For KS-100 with collar or press-ring as a
 collar-stop:

CEM1 and FR4: Ø 1,67 - 1,69 mm
 (.0657 - .0665)

Available tip styles

Material	Tip style	Plating	Further versions	
			Ø	Ø (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 14		A	1,50	(.059)
3 14		A		
2 17		A		
3 19		A		
2 24**		A	1,50	(.059)
2 25		A	1,50	(.059)
2 31		A		
2 33		A		

* 0,9 mm or 0,5 mm longer than Standard
 ** higher middle tip, plus 0,4 mm

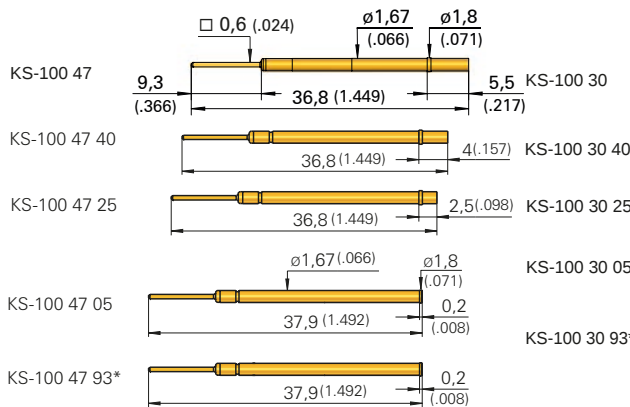
Grid:
 $\geq 2,54 \text{ mm}$
 $\geq 100 \text{ Mil}$

Installation height with KS: 10,5 - 25,5 mm (.413 - 1.004)

Recommended stroke: 4,3 mm (.169)

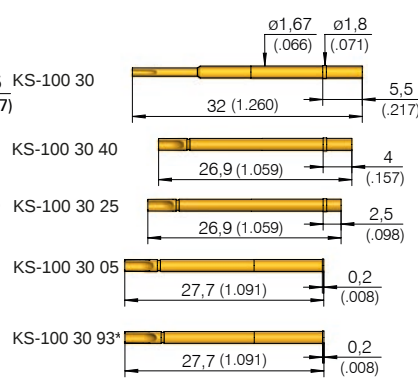
Receptacles with collar

With wire-wrap posts (vacuum-sealed)

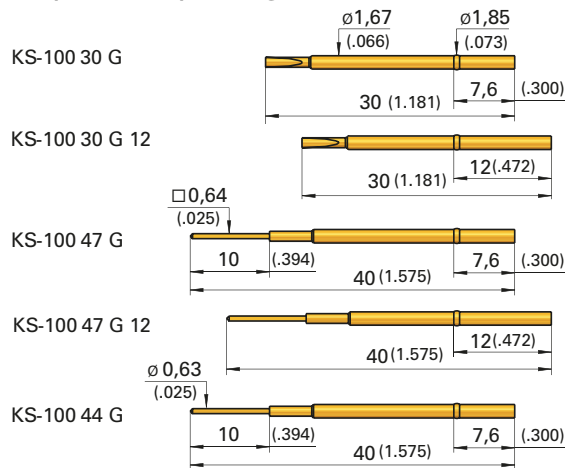


* for use with tip style 93

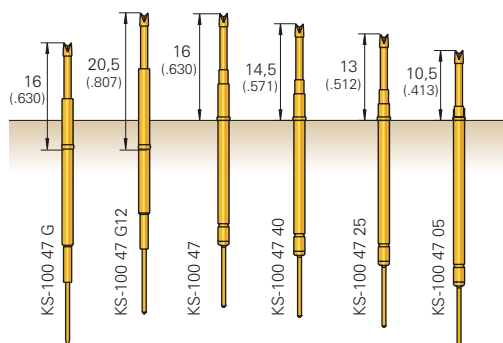
With solder connection



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)

INGUN recommend using tip style 93 in combination with the GKS-100 ...E test probe series

Note:

Receptacles with square-post length 13 mm (.512) and 18 mm (.709) are ordered with the designation -13 and -18 respectively.

Example: KS-100 47 G 12-13 (-18)

KS-100 47-13 (-18)

Available tip styles

Material		Tip style	Plating	Further versions	
				ϕ	ϕ (inch)
2	38		A	$\phi 0,90$ (.035)	
3	55		A	$\phi 0,64$ (.025)	
2	77		A	$\phi 0,90$ (.035)	
2	88		A	$\phi 1,50$ (.059)	1,90 (.070)
2	89		A	$\phi 0,50$ (.020)	
2	91		A	$\phi 0,90$ (.035)	
2	91		A	$\phi 1,30$ (.051)	
2	93*		A	$\phi 1,60$ (.063)	
2	97		A	$\phi 0,90$ (.035)	
2	98		A	$\phi 0,90$ (.035)	

* 5 mm longer than standard tip styles

Available tip styles special version GKS-100...LP

Material		Tip style	Plating	Further versions	
				ϕ	ϕ (inch)
3	07		A	$\phi 0,90$ (.035)	
2	91		A	$\phi 0,90$ (.035)	

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"; "LH";
 "LP"; "E")

Test probe with total length 33,4 mm (1.315):

G K S 1 0 0 3 0 7 1 5 0 A 3 0 0 0

Test probe with total length 35,4 mm (1.394):

G K S 1 0 0 2 9 1 0 9 0 A 2 0 0 0 LP

Test probe with total length 38,4 mm (1.512):

G K S 1 0 0 3 0 6 1 3 0 A 1 5 0 0 E

Receptacles:

K S - 1 0 0 3 0 G K S - 1 0 0 4 7 G