

HSS 118

High Current Probe up to 16 A

Grid:

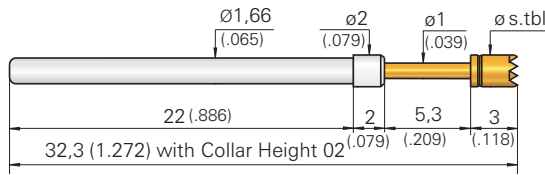
≥ 2,54 mm

≥ 100 Mil

Installation Height: 10,3 resp. 18,3 mm (.406/ .720)

Recommended Stroke: 4,0 resp. 6,4 mm (.157/ .252)

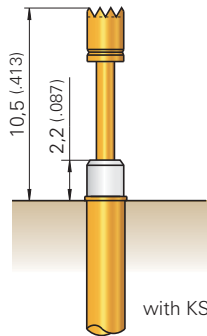
Mounting and Functional Dimensions



Collar Height and Installation Height

The Installation Height of the Tip (Dimension without Receptacle) is determined by the Collar Height.

Collar Height	Installation Height
02	10,3 mm (.406)
03	11,3 mm (.445)
04	12,3 mm (.484)
05	13,3 mm (.524)
06	14,3 mm (.563)
07	15,3 mm (.602)
08	16,3 mm (.642)
09	17,3 mm (.681)
10	18,3 mm (.720)



Mechanical Data

For Tip Styles with Diameter ≥ 1 mm (.039)

Working Stroke: 4,0 mm (.157)

Maximum Stroke: 5,3 mm (.209)

For Tip Styles with Diameter ≤ 1 mm (.039)

Working Stroke: * 6,4 mm (.252)

Maximum Stroke: 8,0 mm (.315)

Spring Force at Work. Stroke: 1,5 N (5.4oz)

alternative: 0,8 N (2.9oz)****; 1,1 N (3.7oz)****; 2,25 N (8.1oz)

* Working Stroke has been adjusted to 4 mm (see Technical Informations).

Materials

Plunger: BeCu or Steel, gold-plated

Barrel: Brass, silver-plated

Spring: Steel, gold-plated or Stainless Steel

Receptacle: Brass, gold-plated

Mounting Hole Size

HSS-118 and KS-112 xx

with Receptacle: see KS-112, Page 50

without Receptacle: ø 1,65 mm (.0650)

Operating Temperature

Standard: -100° up to +200° C

Electrical Data

Current Rating: max. 16 A

with Spring Force ≥ 1,5 N + Plunger of BeCu

**** Spring force < 1.5 N are not recommended for high-current applications

R_i typical: < 10 mΩ

Available Tip Styles

Material	Tip Style	Plating	Further Versions	
			ø	ø (inch)
3 02		A		
3 03		A		
3 05		A	0,65	(.026)
3 05		A		
3 05*		S		
3 06		A	1,30 1,60 2,50 3,50	(.051) (.063) (.098) (.138)
2 14		A		
3 17		A	2,00	(.079)
3 19		A		
3 53**		S		

* pressed-in Silver stud

** pressed-in Silver stud, Tip Length 3,5 mm (.138)
Installation Height plus 0,5 mm (.020)

Applications:

- High-current transfer during Functional Test
- Power-Supply-Test
- Burn-in-Test
- Contacting element in permanent use
- Usage with AC and DC

Note:

HSS-118 are used with Receptacles of the Series KS-112 (see Page 50).

Insertion and Extraction Tools for HSS and KS see Page 118.

Note:

Screw-in Version see HSS-118 ... M on Page 144.

Ordering Example

Series	Tip Material 2 = Steel 3 = BeCu	Tip Style	Tip Diameter (1/100 mm)	Plating A = Gold S = Silver	Spring Force (dN)	Collar Height (mm)
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Test Probe:

H S S 1 1 8 3 1 7 1 7 5 A 1 5 0 2

Receptacles for HSS-118:

K S - 1 1 2 3 0 K S - 1 1 2 4 7