

Type	Current	Temperature	R _{typically}
F100/F585	5,0 A	-20°...+80°C	<20 mOhm
F100/F585...H	5,0 A	-40°...+250°C	<30 mOhm

* depend on chosen tip diameter

Standard Probe 100 mil F100 / F585

Both Probes are available with standard length and as L-Version. High Temperature Versions (200 cN) are available for some tip styles on request.

F100 and F585 have the same dimensions and they differ in the rolling position.

The F100 permits a higher spring force because of the flange at the end of his barrel. This design also allows a better plunger guidance in the fixture guiding plate, resulting in an improved pointing accuracy.

Due to the press ring, the receptacles H100 can be adjusted at variable height to achieve the requested projection height for the probe. For receptacle mounting please use the insertion tool FEWZ (see Tools/Accessories).

Receptacles are available with Wire-Wrap- (WW), Crimp- (CR) or Solder-Connection (LA).

Mechanical Specifications

Travel (mm)	F100	F585
Nominal:	5,0	5,0
Maximum:	6,4	6,4

Spring Force F100 (cN ±20%)

Nominal Force:	130	180	300
Preload:	50	50	50

Spring Force F585 (cN ±20%)

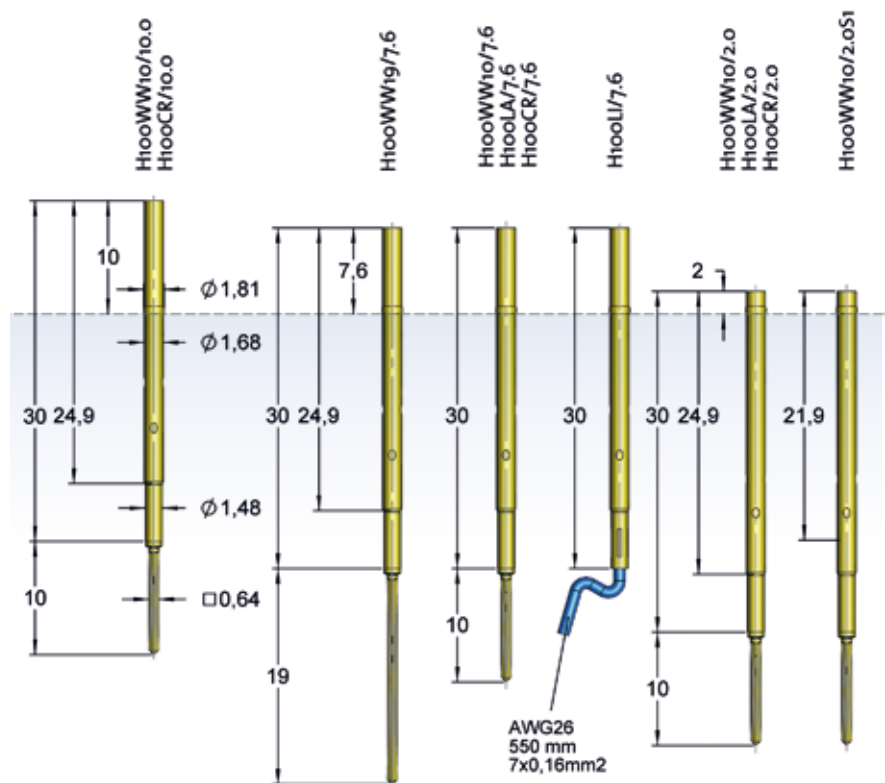
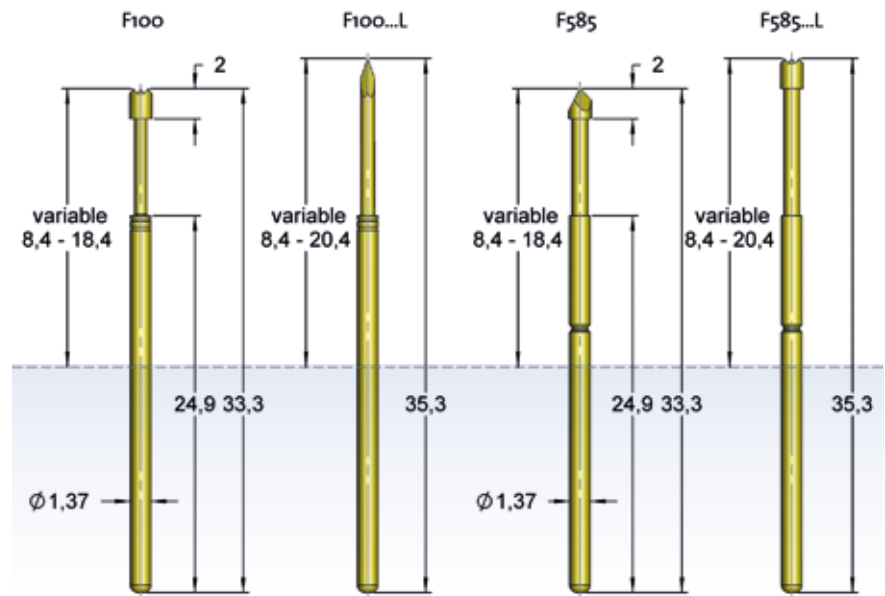
Nominal Force:	130	200	300
Preload:	50	50	50

(180, 450 cN on request)

Pointing Accuracy:
F100/F585: ± 0,08 mm

Materials and Plating

Plunger: see Tip Styles
Barrel: Nickel Silver, Gold plated
Spring: Music wire, Silver plated
Receptacle: Nickel Silver, Gold plated



All receptacles H100... are identical with the former article description H585...



Standard Probe 100 mil F100 / F585

F100 | Tip Style, Material, Plating, Tip-Ø (mm)

				
06 BeCu; G Ø 1,50	06 BeCu; G (IK) see page 27	10 Steel; L Ø 0,60	11 BeCu; G Ø 0,64 L-Vers. Ø 0,90	14 BeCu; G Ø 1,50
				
14 Steel; L Ø 1,05	21 Steel; L Ø 0,90 L-Version	30 BeCu; G Ø 0,90	33 Steel; L Ø 0,90 L-Version	37 Steel; L Ø 0,50 L-Version
				
38 Steel; L Ø 0,90	43 Steel; L Ø 0,90			

F585 | Tip Style, Material, Plating, Tip-Ø (mm)

				
05 BeCu; G Ø 1,50	06 BeCu; G Ø 1,30 / 1,50 / 2,00 / 2,50 L-Vers. Ø 1,50 / 2,00	06 BeCu; G (IK) see page 27	07 Steel; L Ø 1,50 / 1,70	10 Steel; L Ø 0,63
				
11 BeCu; G Ø 1,05	12 BeCu; G Ø 1,50	14 BeCu; G Ø 1,30 / 1,50	14 Steel; L Ø 1,30 / 1,50 L-Vers. Ø 1,30	15 BeCu; G Ø 1,50 / 1,70 / 2,00 / 2,50 L-Version Ø 1,50
				
17 BeCu; G Ø 1,50	18 BeCu; G Ø 1,05	18 Steel; L Ø 1,05 L-Version	21 Steel; L Ø 1,05	30 BeCu; G Ø 1,05
				
33 Steel; L Ø 1,05 / 1,50 L-Version Ø 1,05	34 Steel; L Ø 0,80	35 Steel; L Ø 1,45	36 BeCu; G Ø 1,37	36 Steel; L Ø 1,37
				
41 BeCu; IK see page 27	60 BeCu; G Ø 0,46	62 BeCu; G Ø 1,05	63 BeCu; G Ø 1,50	64 CuBe; G Ø 0,46

Drill Size H100 (mm)











Material	press ring as stop	press ring inserted
EP 105 (CEM1, Trolitax)	1,67-1,68	1,70-1,75
HGW 2372.1 (FR4)	1,68-1,69	

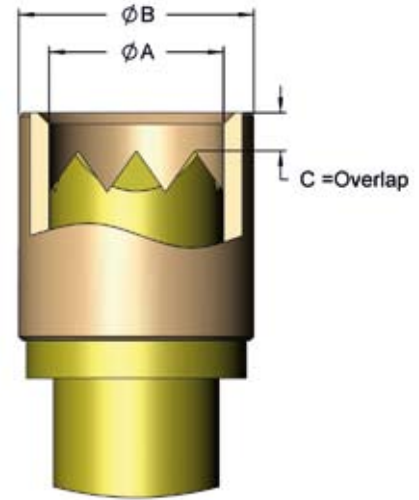
Type	Tip-Ø	Spring Force
F100	33S	090
L	300	L
Tip Style	Material	Finish
		Special Version
Material:	B = BeCu, S = Steel	
Tip-Ø:	090 = 0,90 mm (e.g.)	
Finish:	G = Gold, L = Longtime Gold plated	
Special Version:	IK = Insulating cap, L = Long Version	
	H = High Temperature Version	
Receptacle:	Order-Code according drawing	

ORDER EXAMPLE



Insulating Caps Overview

F175	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F17506B130G180IK 180 cN Ø 1,3 mm Ø 1,7 mm 0,4 mm							
F588	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F58841B150G300IK 300 cN Ø 1,5 mm Ø 2,2 mm 0,4 mm							
F703	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F70306B130G180IK 180 cN Ø 1,3 mm Ø 1,7 mm 0,4 mm							
F797	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F79706B250G300IK17 300 cN Ø 2,5 mm Ø 3,2 mm 1,7 mm							
F832	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F83205S0008L650IK10 650 cN Ø 1,0 mm Ø 2,0 mm 1,0 mm							
F075	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F07506B130GxxxIK 130, 180, 280 cN Ø 1,3 mm Ø 1,7 mm 0,4 mm		F07541B130G280IK 280 cN Ø 1,3 mm Ø 1,7 mm 0,4 mm					
F822	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F82205S0008L650IK10 650 cN Ø 1,0 mm Ø 2,0 mm 1,0 mm		F82205S0007L650IK15 650 cN Ø 0,8 mm Ø 2,0 mm 1,5 mm		F82205S0007L650IK25 650 cN Ø 0,8 mm Ø 2,0 mm 2,5 mm			
F786	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F78606B400G300IK04 300 cN Ø 4,0 mm Ø 4,8 mm 0,4 mm		F78606B400G300IK06 300 cN Ø 4,0 mm Ø 4,8 mm 0,6 mm		F78606B400G300IK17 300 cN Ø 4,0 mm Ø 4,8 mm 1,7 mm			
F733	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F73306B180G150IK05 150 cN Ø 1,8 mm Ø 2,6 mm 0,5 mm		F73306B230G150IK05 150 cN Ø 2,3 mm Ø 3,1 mm 0,5 mm		F73306B300G300IK87 300 cN Ø 3,0 mm Ø 5,45 mm 8,7 mm			
F585	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F58506B100GxxxIK 130, 200, 300 cN Ø 1,0 mm Ø 2,2 mm 0,4 mm		F58506B150Gxxxik 130, 200, 300 cN Ø 1,5 mm Ø 2,2 mm 0,4 mm		F58541B150GxxxIK 130, 200, 300 cN Ø 1,5 mm Ø 2,2 mm 0,4 mm			
F585	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F58506B200GxxxIK 130, 200, 300 cN Ø 2,0 mm Ø 3,2 mm 0,4 mm		F58506B350GxxxIK 130, 200, 300 cN Ø 3,5 mm Ø 4,0 mm 0,4 mm		F58506B370G300IK36 300 cN Ø 3,7 mm Ø 4,7 mm 3,6 mm		F58506B370G300IK47 300 cN Ø 3,7 mm Ø 6,0 mm 4,7 mm	
F732	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F73206B120GxxxIK05 150, 300 cN Ø 1,2 mm Ø 2,0 mm 0,5 mm		F73206B120G150IK60 150 cN Ø 1,2 mm Ø 2,0 mm 6,0 mm		F73206B180G150IK05 150 cN Ø 1,8 mm Ø 2,6 mm 0,5 mm		F73206B200GxxxIK05 150, 300 cN Ø 2,0 mm Ø 2,8 mm 0,5 mm	
F772	Order Code Spring Force Inner-Ø A Outer-Ø B Overlap C	F77206B100G150IK05 150 cN Ø 1,0 mm Ø 1,9 mm 0,5 mm		F77206B120G150IK05 150 cN Ø 1,2 mm Ø 2,0 mm 0,5 mm		F77206B180G150IK05 150 cN Ø 1,8 mm Ø 2,6 mm 0,5 mm		F77206B180G150IK08 150 cN Ø 1,8 mm Ø 2,6 mm 0,8 mm	
								F77206B200G150IK05 150 cN Ø 2,0 mm Ø 2,8 mm 0,5 mm	





Force-Travel Diagram

