

F100

Standard Probe 100 mil

Centers (mm/mil)	2,54 / 100
Current	5,0 A
Temperature	-20°C...+80°C
R typically	30 mOhm

Spring Force (cN ±20%)

Version	Preload	Nominal
HP	70	100
HP	75	130
HP	110	150
HP	130	200
HP	200	300
HPL	75	130
HPL	130	200
HPL	200	300
HPRPL	200	300
L	40	100
L	80	150
L	80	200
L	150	300
Mint-Pin	40	100
Mint-Pin	80	150
Mint-Pin	60	225
RP	40	100
RP	80	150
standard	30	60
standard	40	100
standard	80	150
standard	80	200
standard	150	300
standard	180	400

Travel (mm)

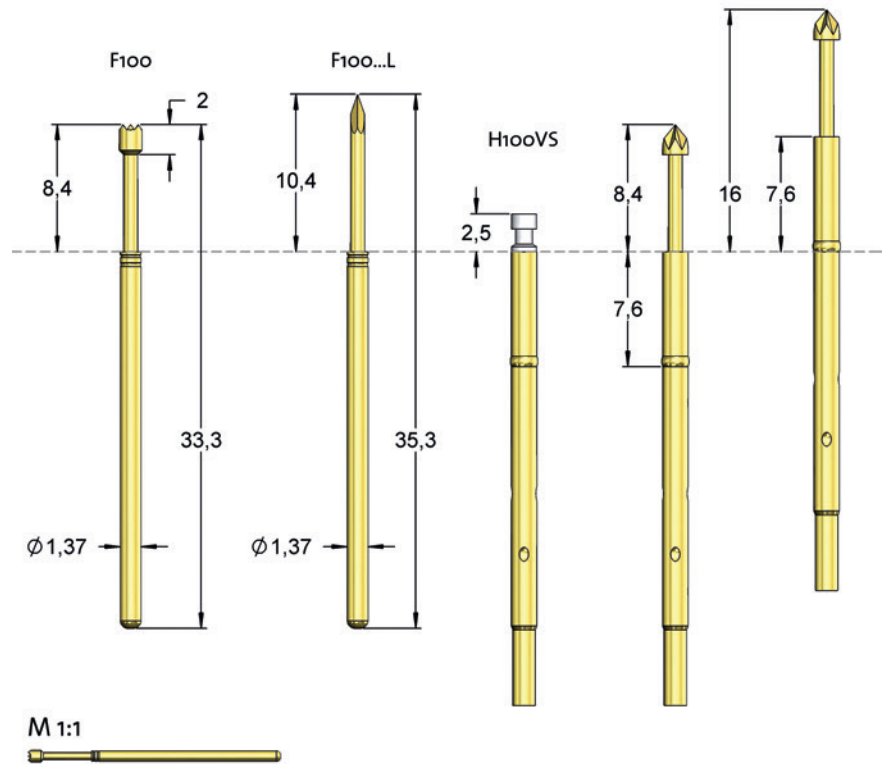
Version	Nominal	Maximum
standard	4,3	6,4
Pointing Accuracy		±0,08 mm

Materials and Plating

Plunger	see tip style
Barrel	Nickel silver, gold plated
Spring	Music wire, silver plated Stainless steel, unplated
Receptacle	Nickel silver, Gold plated

Drill Size (mm)

Press ring as stop	1,67 - 1,68
Press ring inserted	1,70 - 1,75



The F100 is the most common probe for 100 mil applications. Further receptacles see „Receptacles H100“. H-Versions on request. IK-Versions see at Overview Insulation caps.

Tip Style	Number	Material	Plating	Ø in mm	Version
	05	B	G	1,50	-
	06	B	G	1,30	-
	06	B	G	1,50	-
	06	B	G	1,50	L
	06	B	G	2,00	-
	06	B	P	2,00	HP
	06	B	G	2,50	-
	06	B	G	3,00	-
	06	B	G	3,10	Mint-Pin
	06	B	G	4,00	-
	07	S	L	1,50	-
	10	S	L	0,60	RP
	10	S	P	0,60	RP
	11	B	G	0,50	-
	11	B	G	0,64	-
	11	B	G	0,90	-
	11	B	G	0,90	L
	12	B	G	1,50	-
	14	B	G	1,30	-
	14	B	G	1,50	-
	14	S	L	1,30	-



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Accessories

Insertion tool probe	FDWZ-100
Insertion tool receptacle	FEWZ-100EV
Insertion tool receptacle	FEWZ-100E0
Plug lock	H100VS

Projection Height (mm)

(F100) H100.../10.0	8,4 - 18,4
(F100) H100.../7.6	8,4 - 16,0
(F100) H100.../2.0	8,4 - 10,4
(F100) H100WW10/2.0S1	11,4 - 13,4
(F100) H100WW10/2.0S2	16,4 - 18,4
(F100...L) H100.../10.0	10,4 - 20,4
(F100...L) H100.../7.6	10,4 - 18,0
(F100...L) H100.../2.0	10,4 - 12,4
(F100...L) H100WW10/2.0S1	13,4 - 15,4
(F100...L) H100WW10/2.0S2	18,4 - 20,4

Type	Tip-Ø		Spring Force	
F 100	33	S	090	P
	300	HP		
	Tip Style	Material	Finish	Special Version
Material:	B = BeCu, S = Steel			
Tip-Ø:	090 = 0,9 mm (e.g.)			
Finish:	G = Gold, L = Longtime Gold plated, P = Functional coating, N = Nickel, R = Rhodium			
Special Version:	B = „Banana Shaped“, H = High Temperatur, HP = Progressive Series, IK = Insulating cap, L = Long Version, RP = „Wobbling Plunger“			
Receptacle:	Order Code according drawing			

ORDER EXAMPLE

Tip Style	Number	Material	Plating	Ø in mm	Version
	14	S	L	1,50	-
	14	S	P	1,50	HP
	15	B	G	1,50	-
	15	B	G	1,50	L
	15	B	G	1,70	-
	17	B	G	1,50	-
	17	B	G	2,00	-
	18	B	G	0,90	-
	21	S	L	0,90	-
	21	S	L	0,90	L
	21	S	P	0,90	HP
	21	S	P	0,90	HPL
	30	B	G	0,90	-
	32	S	P	0,90	HP
	32	S	P	0,90	HPL
	33	S	L	0,90	-
	33	S	L	0,90	HP
	33	S	L	0,90	L
	33	S	P	0,90	HP
	33	S	P	0,90	HPL
	35	S	L	1,50	-
	36	S	L	1,30	-
	37	S	L	0,50	-
	38	S	L	0,90	-
	43	S	L	0,90	-
	43	S	P	0,90	HP
	43	S	P	0,90	HPL
	55	B	G	1,80	-
	55	B	G	1,80	L
	62	B	G	0,90	-
	62	S	P	0,90	HP
	62	S	P	0,90	HPL
	63	B	G	1,50	-

F100...RP

Wobbling Plunger for Contacting Soldered Pins

The deflection of a wobbling plunger substantially exceeds the function of the flexible needle. The special design of the plunger enables plunger deflections without notable abrasion. High level stress tests with plunger deflexion up to 0.8 mm have resulted in outstanding electrical performance and life time of the probe. The diagram shows the comparison to a conventional probe without wobbling plunger.



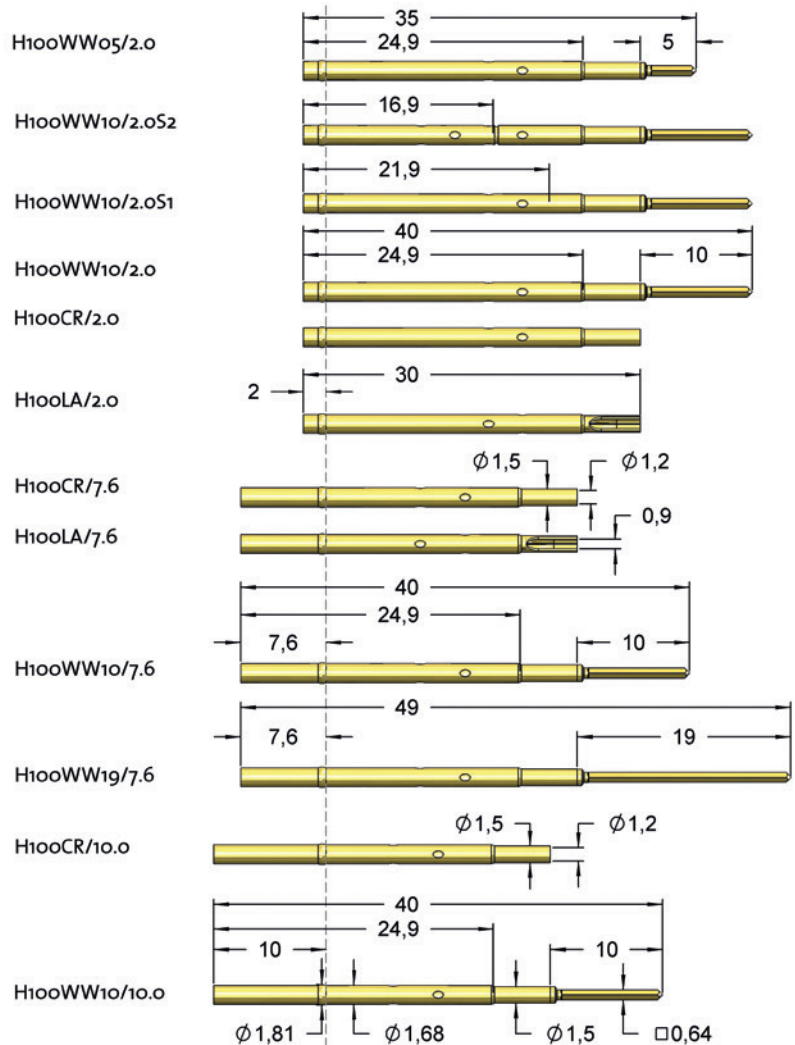
H100

Receptacles for 100 mil Centers

For probes **F100, F588 and F585** different receptacles are available with **different connection types** (e.g. LA, CR, WW), different press ring positions and different wire-wrap posts. Adequate insertion tools are available. The right tool for flush insertion is **FEWZ-100E0**. The tools for fix projection heights are **FEWZ-100Exx**. For variable projection heights the tool **FEWZ-100EV** is appropriate.

Plug locks **H100VS** can be used to close empty receptacles in order to prevent false assemblies and to avoid contamination.

A special receptacle with spring loaded contact pin (**H100WL11/7.6**) enables wireless contacting of conductor paths. Additionally a receptacle with preassembled wire AWG26 is available as **H100LI/7.6**.



Material and Plating

Nickel silver, gold plated

Centers (mm/mil) 2,54 / 100

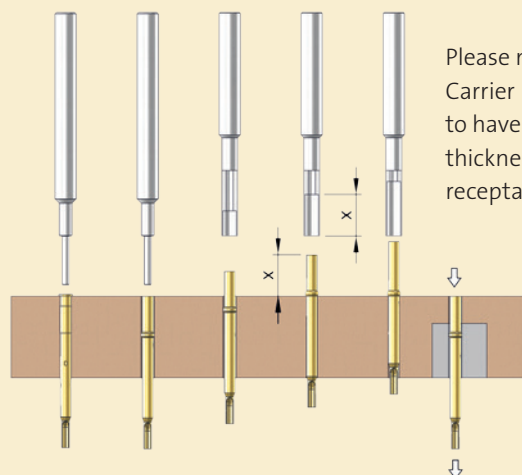
Drill Size H100 (mm)

press ring as stop	1,67 - 1,68
press ring inserted	1,70 - 1,75

Type	Length of Wire Wrap Pin
H100	WW 10 / 7.6
Connection Type:	Press Ring Position
CR = Crimp connection	LA = Solder connection
WW = Wire Wrap connection	LI = Stranded wire
WL = Spring loaded connection	
Length of Wire Wrap Pin:	e.g. 10 = 10,0mm
Press Ring Position:	e.g. 7.6 = 7,6mm
ORDER EXAMPLE	

Appropriate tools are available for each type of receptacle.

Please note: Carrier plates need to have a certain thickness to hold receptacles tight.



Projection Height (mm)

	H100.../10.0	H100.../7.6	H100.../2.0	H100WW10/2.0S1	H100WW10/2.0S2
F100 / F585	8,4 - 18,4	8,4 - 16,0	8,4 - 10,4	11,4 - 13,4	16,4 - 18,4
F100...L / F585...L	10,4 - 20,4	10,4 - 18,0	10,4 - 12,4	13,4 - 15,4	18,4 - 20,4
F588...S	12,4 - 22,4	12,4 - 20,0	12,4 - 14,4	15,4 - 17,4	20,4 - 22,4
F588	14,1 - 24,1	14,1 - 21,7	14,1 - 16,1	17,1 - 19,1	22,1 - 24,1